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CATALOGUE

1925-1926

Containing general information concerning the University.
Announcements for the Scholastic Year 1925-26
and Records of 1924-25.

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THE UNIVERSITY OF MARYLAND

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1925-1926

Containing general information concerning the University,
Announcements for the Scholastic Year 1925-1926,
and Records of 1924-1925.

Calendar for 1925, 1926, 1927

1925

JULY

S	M	T	W	T	F	S
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AUGUST

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SEPTEMBER

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OCTOBER

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DECEMBER

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1926

JANUARY

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FEBRUARY

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NOVEMBER

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DECEMBER

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1927

JANUARY

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FEBRUARY

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MARCH

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MAY

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JUNE

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UNIVERSITY CALENDAR

1925-1926

AT COLLEGE PARK

Summer Term

1925		
June 15-20	Monday-Saturday	Rural Women's Short Course.
June 24	Wednesday	Summer School begins.
Aug. 4	Tuesday	Summer School ends.
Aug. 6-11	Thursday-Tuesday	Boys' and Girls' Club Week.

First Semester

Sept. 21-22	Monday-Tuesday	Registration for all students.
Sept. 23	Wednesday	Instruction for first semester begins.
Sept. 28	Monday	Last day to register.
Sept. 30	Wednesday	Last day to change registration or to file schedule card without fine.
Nov. 11	Wednesday	Observance of Armistice Day.
Nov. 25-30	Wednesday, 4.20 p.m. to Monday, 8.20 a.m.	Thanksgiving Recess.
Dec. 19	Saturday, 12 m.	Christmas Recess begins.
1926		
Jan. 4	Monday, 8.20 a.m.	Christmas Recess ends.
Jan. 20-23	Wednesday-Saturday	Registration for second semester.
Jan. 25-30	Monday-Saturday	First semester examinations.
Feb. 1	Monday	Last day to register.

Second Semester

Feb. 2	Tuesday, 8.20 a.m.	Instruction for second semester begins.
Feb. 9	Tuesday	Last day to change registration or to file schedule card without fine.
Feb. 22	Monday	Washington's Birthday.
Mch. 25	Thursday, 11.20 a.m.	Observance of Maryland Day.
Apr. 1-7	Thursday, 12 m. to Wednesday, 8.20 a.m.	Easter Recess.
May 12-13	Wednesday-Thursday	Festival of Music.
May 26-June 2	Wednesday-Wednesday	Second Semester examinations for seniors.
May 29-June 5	Saturday-Saturday	Second Semester examinations.
May 31	Monday	Memorial Day
June 6	Sunday, 11 a.m.	Baccalaureate Sermon.
June 7	Monday	Class Day.
June 8	Tuesday, 11 a.m.	Commencement

Summer Term

June 14-19	Monday-Saturday	Rural Women's Short Course.
June 23	Wednesday	Summer School begins.
Aug. 3	Tuesday	Summer School ends.
Aug. 5-10	Thursday-Tuesday	Boys' and Girls' Club Week.

AT BALTIMORE

First Semester

1925		
Sept. 14	Monday	Instruction begins for first semester—School of Law.
Sept. 28	Monday	Last day to register—School of Law. Instruction begins for first semester: School of Medicine School of Dentistry. School of Pharmacy. School of Business Administration.
Oct. 5	Monday	Last day to register: School of Medicine. School of Dentistry. School of Pharmacy. School of Business Administration.
Nov. 11	Wednesday	Armistice Day. Holiday. (All Schools.)
Nov. 26	Thursday	Thanksgiving Day. Holiday. (All Schools).
Dec. 19	Saturday	Christmas Holiday begins after last class period. (All Schools)
1926		
Jan. 4	Monday	Christmas Holiday ends. Instruction begins with first class period. (All Schools).
Jan. 18	Monday	Registration begins for second semester. (All Schools)

Second Semester

Jan. 25	Monday	Instruction begins for second semester, School of Law
Feb. 1	Monday	Instruction begins for second semester: School of Medicine. School of Dentistry. School of Business Administration. Last day to register—School of Law.

Second Semester

Feb. 6	Saturday	Last day to register: School of Medicine. School of Dentistry. School of Pharmacy. School of Business Administration.
Feb. 8	Monday	Instruction begins for second semester—School of Pharmacy
Feb. 22	Monday	Washington's Birthday (Holiday)
Apr. 1	Thursday	Easter Holiday begins after last period. (All Schools)
Apr. 6	Tuesday	Easter Holiday ends. Instruction begins with first class period. (All Schools)
June 5	Saturday	Commencement Day (All Schools)

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B. JOHN BLACK — JOHN E. RAINE

INSPECTION AND CONTROL WORK

JOHN M. DENNIS, Chairman

HENRY HOLZAPFLL — CHARLES C .GELDER

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MAUDE F. McKENNEY, Financial Secretary

G. S. SMARDON, Comptroller

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ALMA H. PREINKERT, M.A., Assistant Registrar

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RUTH LEE BRISCOE, Librarian (Baltimore)

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E. S. JOHNSTON, Ph.D., Secretary.

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Anne Arundel	*MRS. G. LINTHICUM	Annapolis
Baltimore	*MARY GRAHAM	Towson
Caroline	*BESSIE SPAFFORD, B.S.	Denton
Carroll	*ISABELLE COBB, A.B., M.A.	Westminster
Cecil	*LILLIAN R. GRIMM, B.S.	Elkton
Charles	*MRS. ELVA S. BOHANNAN	La Plata
Dorchester	*SARA E. COYNE, B.S.	Cambridge
Frederick	*ELIZABETH R. THOMPSON, B.S.	Frederick
Garrett	*LOLA B. GREEN, B.S.	Oakland
Harford	*EVA K. SCHURR, B.S.	Bel Air
Kent	*SUSAN V. HILL	Chestertown

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* In co-operation with the United States Department of Agriculture.

County	*Name*	*Headquarters*
Montgomery	*Blanche A. Corwin, B.S.	Rockville
Prince George's		Hyattsville
St. Mary's	*Ethel Joy	Leonardtown
Talbot	*Mrs. Olive K. Walls	Easton
Washington	*Margaret Smith, B.S.	Hagerstown
Wicomico	*Florence H. Mason, B.S.	Salisbury
Worcester	*Lucy J. Walter	Snow Hill

Local Home Demonstration Agent

Charles' & St. Mary's	*Mrs. Leah W. Hopewell	La Plata

Garden Specialist

Madison & Lafayette Ave., Administration Building	Mrs. Adelaide Derringer	Baltimore

* In co-operation with the United States Department of Agriculture.

SECTION I

GENERAL INFORMATION

HISTORICAL STATEMENT

The history of the present University of Maryland is the history of two institutions until they were merged in 1920. These were the old University of Maryland in Baltimore and the Maryland State College in College Park.

The beginning of this history was in 1807 when a charter was granted to the College of Medicine of Maryland. The first class was graduated in 1810. A permanent home was established in 1814-1815 by the erection of the building at Lombard and Greene Streets in Baltimore, the oldest structure in America devoted to medical teaching. Here was founded one of the first medical libraries and the first medical school library in the United States. In 1812 the General Assembly of Maryland authorized the College of Medicine of Maryland to appoint and annex other colleges or faculties, and by the same act declared that the "colleges or faculties thus united should be constituted an university by the name and under the title of the University of Maryland." By authority of this act, steps were taken in 1813 to establish a "faculty of law," and in 1823 a regular school of instruction in law was opened. Subsequently there were added a college of dentistry, a school of pharmacy and a school of nursing. No significant change in the organization of the University occurred until 1920, more than one hundred years after the original establishment in 1812.

The Maryland State College was chartered in 1856 under the name of the Maryland Agricultural College, the second agricultural college in the Western Hemisphere. For three years the College was under private management. In 1862 the Congress of the United States passed the Land Grant Act. This act granted each State and Territory that should claim its benefits a proportionate amount of unclaimed Western lands, in place of scrip, the proceeds from the sale of which should apply under certain conditions to the "endowment, support and maintenance of at least one college where the leading object shall be, without excluding other scientific and classical studies, and including military tactics, to teach such branches of learning as are related to agriculture and the mechanic arts, in such a manner as the Legislatures of the States may respectively prescribe, in order to promote the liberal and practical education of the industrial classes in the several pursuits and professions of life." This grant was accepted by the General Assembly of Maryland, and the

Maryland Agricultural College was named as the beneficiary of the grant. Thus the College became, at least in part, a State institution. In the fall of 1914 control was taken over entirely by the State. In 1916 the General Assembly granted a new charter to the College and made it the Maryland State College.

In 1920, by an act of the State Legislature, the University of Maryland was merged with the Maryland State College, and the name of the latter was changed to the University of Maryland.

All the property formerly held by the old University of Maryland was turned over to the Board of Trustees of the Maryland State College, and the name was changed to the Board of Regents of the University of Maryland. Under this charter every power is granted necessary to carry on an institution of higher learning and research. It provides that the University shall receive and administer all existing grants from the Federal Government for education and research and all future grants which may come to the State from this source. The University is co-educational in all its branches.

ADMINISTRATIVE ORGANIZATION

The government of the University is vested by law in a Board of Regents, consisting of nine members appointed by the Governor each for a term of nine years. The administration of the University is vested in the President. The University Senate and the Administrative Council act in an advisory capacity to the President. The composition of these bodies is given elsewhere.

The University organization comprises the following administrative divisions:

College of Agriculture.
Agricultural Experiment Station.
Extension Service.
College of Arts and Sciences.
College of Education.
College of Engineering.
College of Home Economics.
Graduate School.
Summer School.
Department of Military Science and Tactics.
Department of Physical Education and Recreation.
School of Business Administration.
School of Dentistry.
School of Law.
School of Medicine.
School of Nursing.
School of Pharmacy.

The University faculty consists of the President, Deans, the instructional staffs of all the divisions of the University and the Librarians. The faculty of each college or school constitutes a group which passes on all questions that have exclusive relationship to the division represented. The President is ex-officio a member of all of the faculties.

The organization and activities of the several administrative divisions are described in full in the appropriate chapters of Section II.

The Eastern Branch

The Eastern Branch of the University of Maryland is located at Princess Anne, Somerset County. It is maintained for the education of negroes in agriculture and the mechanic arts.

LOCATION

The University of Maryland is located at College Park in Prince George's County, Maryland, on the line of the Washington branch of the Baltimore and Ohio Railroad, eight miles from Washington and thirty-two miles from Baltimore. At least eight trains a day from each city stop at College Station, thus making the place easily accessible from all parts of the State. Telephone connection is made with the Chesapeake and Potomac lines.

The grounds front on the Baltimore and Washington Boulevard. The suburban town of Hyattsville is two miles to the south, and Laurel is ten miles to the north on the same road. Access to these towns and to Washington may be had by steam and electric railway.

The Schools of Medicine, Pharmacy, Dentistry, Law, and Business Administration of the University are located in Baltimore at the corner of Lombard and Greene Streets.

EQUIPMENT

The University equipment of grounds and buildings in College Park and Baltimore is as follows:

College Park

Grounds. The University grounds at College Park comprise about 300 acres. The site is healthful and attractive. The terrain is varied. A broad, rolling campus is surmounted by a commanding hill which overlooks a wide area of surrounding country and ensures excellent drainage. Many of the original forest trees remain. Most of the buildings are located on this eminence. The adjacent grounds are laid out attractively in lawns and terraces ornamented with shrubbery and flower beds. Below the brow of the hill, on either side of the Washington-Baltimore Boulevard, lie the drill grounds and the athletic fields. The buildings of the Agricultural Experiment Station face the boulevard.

The farm of the College of Agriculture contains about 240 acres, and is devoted to fields, gardens, orchards, vineyards, poultry yards, etc., which are used for experimental purposes and demonstration work in agriculture and horticulture.

The sanitary conditions are excellent, as shown by the almost complete absence for many years of serious cases of illness among the students. The University maintains its own water supply protected by a modern filtration plant. The water is analyzed weekly. Plans for the location of future buildings have been worked out with due regard to engineering problems and landscape effects.

Buildings. The equipment of buildings comprises about twenty individual structures which provide facilities for the several activities and services carried on at College Park.

Administration and Instruction. This group consists of the following buildings. The Agricultural Building which accommodates the Executive Offices, the College of Agriculture, the College of Education, the College of Home Economics, the Agricultural and Home Economics Extension Service and the Auditorium; Morrill Hall, which accommodates in part the College of Arts and Sciences; Engineering Building, which houses the College of Engineering; Chemical Building for instruction in Chemistry and for State work in analysis of feeds, fertilizers and agricultural lime; Dairy Building; Horticultural Building; Stock Judging Pavilion; Poultry Buildings.

Experiment Station Group. This group consists of the main building, a large brick structure of the colonial period, housing the office of the Director, the office of the Dean of the Graduate School and laboratories for research in chemistry and plant physiology; other smaller buildings for housing the laboratories for research in soils and for seed testing; an agronomy building; a secondary horticulture building; and barns, farm machinery building, silos and other structures required in agricultural research.

Physical Education. This group consists of the Ritchie Gymnasium, which provides quarters for the Military Department as well as for physical education; and the Byrd Stadium, with a seating capacity of 5,000 and furnished with dressing rooms for contestants, rest rooms for patrons and equipment for receiving and transmitting information concerning contests in progress.

Dormitories. Two dormitories, Calvert Hall and Silvester Hall, provide accommodations for 462 men students. Accommodations for 52 women students are provided by three buildings, Gerneaux Hall, a temporary structure and Practice House. The last serves also as a demonstration home for the College of Home Economics.

Service Structures. This group includes the Central Heating and Power Plant; the Filteration Plant; the Infirmary with accommodations

for twenty patients; physician's office, operating room and nursing quarters; Dining Hall, a temporary structure; laundry.

New Buildings. Money was appropriated by the last Legislature for two new buildings, a Dining Hall and a Science Building. Construction of these new buildings will be begun within the next few months, and the buildings should be ready for occupancy within the next year.

Buildings in Baltimore

The group of buildings located at the corner of Lombard and Greene Streets provides the available housing for the Baltimore division of the University. There are no grounds other than the sites of these buildings. The group comprises the original Medical School building erected in 1814, the University Hospital and the Law School Building. Full description of these parts of the University equipment are found in the chapters devoted to the Baltimore Schools in Section II.

Libraries

Libraries are maintained at both the College Park and the Baltimore branches of the University.

The Library at College Park is housed in a separate two-story building. The first floor is devoted to collected material relating to agriculture. The special catalogue cards issued by the United States Department of Agriculture make accessible the large number of State and national bulletins on agriculture and related scientific subjects. The general reference books and the reading room occupy the second floor. The Library is open from 8.30 A. M. to 5.30 P. M., Monday to Friday, inclusive; Saturday from 8.30 A. M. to 12.30 P. M.; Sunday afternoon from 2.30 P. M. to 5.30 P. M., and all evenings except Saturday from 6 P. M. to 10 P. M.

The Library facilities in Baltimore for the Schools of Medicine, Law, Dentistry, Pharmacy and Commerce are consolidated and housed in Davidge Hall. The Library hours during the University year are from 9 A. M. to 10 P. M. daily, except Saturday, when it closes at 6 P. M.

The Libraries contain a total of 31,806 bound books, exclusive of duplicate stock, and 5,800 United States Government documents, unbound reports and pamphlets. Many of the departments also maintain departmental libraries, including a large collection of journals.

Through the Inter-library Loan Systems of the Library of Congress, the United States Department of Agriculture and other Government Libraries, the University Library is able to supplement its reference material either by arranging for personal work in those Washington Libraries or by borrowing the books from them.

INCOME

The University is supported by funds appropriated for its use by the State and Federal Governments, fees from students and funds from other sources. The appropriations from the Federal Government are derived from the original Land Grant Act, from the second Morrill Act, the Nelson Act, the Smith-Hughes and Smith-Lever Acts and the Hatch and Adams Acts.

ENTRANCE

All communications regarding entrance should be addressed to the Registrar, who administers the entrance requirements for all departments of the University. Communications pertaining to entrance to the College Park Colleges should be addressed to the Registrar, University of Maryland, College Park, Maryland; those pertaining to the Baltimore Schools, to the Registrar, University of Maryland, Lombard and Greene Streets, Baltimore Maryland.

GENERAL INFORMATION

Age of Applicants. No applicant who is less than sixteen years of age will be admitted to any of the Colleges or Schools of the University.

Entrance Preliminaries. Candidates for admission should apply as early as possible to the Registrar for the necessary forms for the transfer of preparatory credits. These forms after they are made out and signed by the high school principal should be returned to the Registrar. It is advisable for prospective students to attend to this preliminary as early as possible, in order to make sure that the units offered are sufficient and acceptable. A candidate who fails to attend to this preliminary may find after reaching the University that he cannot enter. The Registrar is always glad to advise with the students either by correspondence or in person concerning their preparation. The Registrar sends out a general statement of the procedure for new students to follow after they are duly admitted to the University.

Time of Admission. Applicants for admission should plan to enter at the beginning of the school year in September. It is possible to be admitted to certain Colleges at the beginning of either semester, but students can seldom enter the University to advantage except at the opening of the school year.

Registration. Registration for the first semester takes place during the first two days of the term. Students register for the second semester during the week preceding final examinations.

After seven days from the opening of a semester, fees are imposed for a change of registration or for late registration.

Students who, for any reason, are more than seven days late in registering must secure permission from the instructors in charge for admission to courses. Such permission must be given in writing to the student's dean before course cards will be issued.

REQUIREMENTS FOR ADMISSION

In general the requirements for admission to the freshman class are the same as those prescribed for graduation by the approved high schools of Maryland.

High or preparatory school work is evaluated on the basis of "units." A unit represents a year's study in any subject in a secondary school, and constitutes approximately one-fourth of a full year's work. It presupposes a school year of 36 to 40 weeks, recitation periods of from 40 to 60 minutes, and for each study four or five class exercises a week. Two laboratory periods in any science or vocational study are considered as equivalent to one class exercise.

Fifteen units, the equivalent of a four-year high school curriculum are required for admission to all the undergraduate colleges. The additional and special requirements for admission to the professional schools and the Graduate School are given in detail in the chapters devoted to those schools.

Prescribed Units. The following units are required of all candidates for admission:

English	3
Mathematics	2
Science	1
History	1
Total Prescribed	7

In addition to these seven prescribed units, the following are required:

(a) For the Pre-Medical curriculum, two years of one foreign language.

(b) For the Engineering curriculum, an additional unit of mathematics, consisting of algebra, completed, one-half unit, and solid geometry, one-half unit. An opportunity to acquire the additional half unit in solid geometry is afforded in the Summer School.

Students entering with conditions in prescribed subjects must remove such conditions before enrolling for the second year.

Elective Units. In addition to the prescribed units, a sufficient number of units to make a total of fifteen must be offered from the following elective subjects:

Agriculture
Astronomy
Biology
Botany
Chemistry
Civics
Commercial Subjects
Drawing
Economics
English
General Science
Geology
History
Home Economics
Industrial Subjects
Language
Mathematics
Music
Physical Geography
Physics
Physiology
Zoology

METHODS OF ADMISSION

Students are admitted to the University by certificate from approved preparatory schools, by transfer from other colleges or universities, or by examination.

Admission by Certificate from Approved Preparatory Schools. A candidate for admission by *certificate* must be a *graduate* of an approved secondary school.

The following groups of secondary schools are approved:

(1) Secondary schools approved by the Maryland State Board of Education.

(2) Secondary schools accredited by the Association of Colleges and Preparatory Schools of the Southern States.

(3) Secondary schools accredited by the North Central Association of Colleges and Secondary Schools.

(4) Secondary schools accredited by the State Universities which are included in the membership of the North Central Association of Colleges and Secondary Schools.

(5) Secondary schools approved by the New England College Entrance Certificate Board.

(6) High schools and academies registered by the Regents of the University of the State of New York.

(7) High and preparatory schools on the accredited list of other State Boards of Education where the requirements for graduation are equivalent to the standard set by the Maryland State Board of Education.

(8) State Normal Schools of Maryland and other State Normal Schools having equal requirements for graduation.

For admission by certificate the applicant should file, with the Registrar of the University as soon as possible after the close of the school year in June, a certificate of recommendation made out on the blank form furnished by the University.

Admission by Transfer from Other Colleges or Universities. A candidate for admission by transfer from another College or University must present evidence that he has maintained a satisfactory and honorable record at the institution which he has attended, in addition to having satisfied the entrance requirements of the University of Maryland.

For admission by transfer the applicant should file with the Registrar as soon as possible after the close of the school year in June a Certificate of Recommendation made out on the blank form furnished by the University. In addition he should have furnished the Registrar, by the institution he has attended, a complete official transcript of his record, together with a statement of honorable dismissal and certificates of good character and loyal citizenship signed by the President and

Dean of the institution he has attended and three reputable citizens of his home town.

Advanced Standing. Advanced standing is granted to students transferring from institutions of collegiate rank for work completed which is equivalent in extent and quality to the work of the University of Maryland, subject to the following provisions:

(1) Regardless of the amount of advanced standing a student may secure, in no case will he be given the baccalaureate degree with less than one year of resident work.

(2) Regardless of the amount of advanced standing a student may secure, in no case will he be given the baccalaureate degree until he has satisfied the full requirements of the curriculum he may elect.

(3) In case the character of a student's work in any subject is such as to create doubt as to the quality of that which preceded it elsewhere, the University reserves the right to revoke at any time any credit allowed.

(4) Credit will not be allowed for more than one-fourth of those courses in which the grade is D.

An applicant may request examination for advanced credit in any subject.

Admission by Examination. Candidates who are not eligible for admission by certificate or by transfer will be admitted by presenting evidence of having passed the examinations of either the College Entrance Examination Board or the New York Regents' Examinations covering work sufficient to meet the entrance requirements.

The University does not give entrance examinations, but accepts certificates of the College Entrance Examination Board and the New York Regents' Examinations.

The certificate of the College Entrance Examination Board, showing a grade of 60 per cent. or higher, will be accepted as satisfying the entrance requirements in a subject. These examinations are held once a year beginning the third Monday in June. Full information regarding these examinations may be obtained from the Secretary of the College Entrance Examination Board, 431 W. 117th Street, New York City.

Credit will be allowed also for examinations conducted by the Regents of the University of the State of New York.

Unclassified Students. Mature students who have had insufficient preparation to pursue any of the four-year curricula may, with the consent of the Committee on Entrance, matriculate for such subjects as they are fitted to take. Such students, however, will be ineligible for degrees.

PHYSICAL EXAMINATIONS

As soon as possible after the opening of the fall semester, as a measure for protecting the health of the student body, all students who enter the undergraduate colleges at College Park are given a physical examination. The examination of the men students is conducted by the College Physician in co-operation with the Military Department. The examination of the women students is conducted by a woman physician especially employed for this purpose in co-operation with the Instructor of Physical Education for Women.

REGULATIONS, GRADES, DEGREES

REGULATION OF STUDIES

Course Numbers. Courses for undergraduates are designated by numbers from 100-199; courses primarily for graduates, by numbers 200-299.

The letter following the number of a course indicates the semester in which it is offered; thus, course 100f is offered in the first semester; 100s, in the second semester. The letter "y" indicates a full-year course. The number of hours credit for each course is indicated by the arabic numeral in parenthesis following the title of the course.

Schedule of Courses. The semester schedules of days, hours and rooms are issued as a separate pamphlet at the beginning of each semester.

Definition of Credit Unit. The semester hour, which is the unit of credit in the University, is the equivalent of a subject pursued one period a week for one semester. Two or three periods of laboratory or field work are equivalent to one lecture or recitation period. The student is expected to devote three hours in classroom or laboratory or in outside preparation for each credit hour in any course.

Number of Hours. The normal student load is from 15 to 19 semester hours, according to curriculum and year. These variations are shown in the appropriate chapters in Section 11 describing the several divisions of the University. No student may carry either more or less than the prescribed number of hours without specific permission from the Dean of his division.

EXAMINATIONS AND GRADES

Examinations. Examinations at the end of each semester complete the studies pursued to that point.

Grading. The system of grading is uniform in the different departments and divisions of the University.

The following grade symbols are used: A, B, C, D, E, F and I. The first four, A, B, C and D, are passing; E, condition; F, failure; I, incomplete.

Grade "A" denotes superior scholarship; grade "B" good scholarship; grade "C" fair scholarship, and grade "D" poor, but passing scholarship.

A student who receives the grade of "D" in more than one-fourth of the credits required for graduation, must take additional courses or repeat courses until he has the required number of credits for a degree, three-fourths of which carry a grade above "D."

A student with a mark of "E" is conditioned. The grade "E" indicates that though the student has not failed in a course, he has not presented sufficient evidence to pass; in the opinion of the instructor his record in the course has been sufficiently good to justify the presumption that he may secure a passing grade by a re-examination or by additional work without repeating the course. The grade "E" cannot be raised to a higher grade than "D."

The mark of "I" (Incomplete) is given only to those students who have a proper excuse for not completing all the requirements of a course. The mark of "I" is not used to signify work of inferior quality. In cases where this grade is given, the student must complete the work assigned by the instructor by the end of the first semester in which that subject is again offered, or the mark becomes "F."

Work of grade "D," or of any passing grade, cannot be raised to a higher grade except by repeating the course. A student who repeats a course for which he has received credit for work done at this University or elsewhere, must meet all the requirements of the course including regular attendance, laboratory work and examinations. His final grade will be substituted for the grade already recorded, but he will not receive any additional credit for the course.

REPORTS

Written reports of grades are sent by the Registrar to parents or guardians at the close of each semester.

ELIMINATION OF DELINQUENT STUDENTS

The University reserves the right to request, at any time, the withdrawal of a student who cannot or does not maintain the required standard of scholarship, or whose continuance in the University would be detrimental to his or her health or to the health of others, or whose conduct is not satisfactory to the authorities of the University. *Students of the last class may be asked to withdraw even though no specific charge be made against them.*

DEGREES AND CERTIFICATES

The University confers the following degrees: Bachelor of Arts, Bachelor of Science, Bachelor of Business Administration, Master of Arts, Master of Science, Doctor of Philosophy, Civil Engineer, Mechan-

ical Engineer, Electrical Engineer, Bachelor of Laws, Doctor of Medicine, Doctor of Dental Surgery and Bachelor of Science in Pharmacy.

Students in the two-year and three-year curricula are awarded certificates.

The requirements for graduation vary, according to the character of work in the different colleges and schools. For full information regarding the requirements for graduation in the several colleges consult the appropriate chapters in Section II.

No baccalaureate degree will be awarded to a student who has less than one year of resident work in this University. The last thirty hours of any curriculum leading to a baccalaureate degree must be taken in residence at College Park.

Not less than three-fourths of the credits required for graduation must be earned with grades of A, B or C.

EXPENSES

MAKE ALL CHECKS PAYABLE TO THE UNIVERSITY OF MARYLAND FOR THE EXACT AMOUNT OF THE SEMESTER CHARGES.

In order to reduce the cost of operation, all fees are due and payable as a part of the student's registration, and all persons must come prepared to pay the full amount of the semester charges. No student will be admitted to classes until such payment has been made.

EXPENSES AT COLLEGE PARK

The following table gives the minimum amounts which must be paid per semester by all regular resident students at College Park.

	First Semester	*Second Semester*	*Total for Year*
Fixed Charges	$ 37.50	$ 37.50	$ 75.00
Board	126.00	126.00	252.00
Lodging	38.00	38.00	76.00
Laundry	13.50	13.50	27.00
Reserve Fee	5.00		5.00
Library Fee	5.00		5.00
Athletic Fee	15.00		15.00
	$240.00	$215.00	$455.00

A matriculation fee of $5.00 is charged to all students registering for the first time.

Non-resident students are charged a fee of $62.50 per semester.

Non-resident students taking premedical work are charged a fee of $100.00 per semester.

Resident students taking pre-medical work are charged a fee of $25.00 per semester.

The diploma fee is $10.00; the certificate fee, $5.00.

Special Fees. The following fees are charged for the indicated special services:

Condition examination fee	$ 1.00
Fee for change in registration after first week	1.00
Fee for failure to register within one week after opening of semester	2.00
Fee for failure to file schedule card in Registrar's office within one week after opening of semester	1.00

Fees for the courses in chemistry depend upon the amount of breakage and the amount of material used. They are collected at the conclusion of each course.

Graduate Fees. The fees paid by graduate students are as follows:

Matriculation fee	$10.00
Per semester credit hour	1.50
Diploma fee	10.00

EXPLANATIONS

The Fixed Charges made to all students are a part of the overhead expenses not provided for by the State, such as laboratory supplies and service, infirmary and physical training costs and other general expense.

The Board, Lodging and Laundry charge may vary from semester to semester, but every effort will be made to keep expenses as low as possible.

The Library Fee is designed to cover in part the cost of wear and tear on library books.

The Reserve Fee will be returned at the close of the year, less damage charges, if any, except to those students who have occupied rooms without first signing the room register kept by the Dormitory Manager at his office in room 121, Silvester Hall, or who have moved from rooms assigned to them, or have removed articles of furniture, without his approval, in which case the entire fee will be forfeited, and damages or other charges which may be shown on their clearance slips will be made against them.

The Athletic Fee constitutes a fund which is collected from all students in the University at College Park for the maintenance of athletics, and the entire amount is turned over to the Athletic Board for disbursement.

DEFINITION OF RESIDENCE AND NON-RESIDENCE

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 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.

MISCELLANEOUS INFORMATION

In case of illness requiring a special nurse or special medical attention, the expense must be borne by the student.

Board and lodging may be obtained at boarding houses or in private families, if desired.

Students not rooming in the domitories may obtain board and laundry at the University at the same rates as those living in the dormitories.

Day students may get lunches at nearby lunch rooms.

The costs of books and supplies and personal needs will vary according to the tastes and habits of the individual student. Books and supplies average about $40.00 per year.

No diploma will be conferred upon, nor any certificate granted to a student who has not made satisfactory settlement of his account.

DORMITORY RULES AND REGULATIONS

All dormitory property in possession of the individual student will be charged against him, and the parent or guardian must assume responsibility for its return without injury other than results from ordinary wear and tear.

All students assigned to dormitories are required to provide themselves with one pair of blankets, two pairs of sheets, four pillow cases, six towels, one pillow, one laundry bag, one broom and a waste basket.

Room Reservations. All students who desire to reserve rooms in the dormitories must register their names and selection of rooms with the Dormitory Manager and deposit $5.00 with the Cashier as a reserve fee. This fee will be deducted from the first semester charges if the student returns; if not, it will be forfeited. Reservations may be made at any time during the closing month of the year by students already in the University, and failure to do so may result in their not being able to obtain rooms upon their return. New students should signify their desire for a room when making application for admittance to the University, accompanying their request with a remittance of $5.00.

Keys. Students who withdraw from the dormitories, or who leave at the close of the year without surrendering their keys to the Dormitory Manager, will have their room charges continued against them until such time as their keys are turned in.

WITHDRAWALS

A student desiring to withdraw from the University must secure the written consent of the parent or guardian, to be attached to the withdrawal slip, which must be approved by the Dean and presented to the Registrar at least one week in advance of withdrawal. Charges for full time will be continued against him unless this is done. Withdrawal slips must bear the approval of the President and the Financial Secretary before being presented to the Cashier for refund.

REFUNDS

Contracts for faculty and other service and for supplies are made on an annual basis, and fees are fixed on the supposition that students will remain for the entire year. Costs of instruction and maintenance cover the entire year, and cannot be apportioned to short periods. Therefore, no refunds can be made except in the case of board, which will be refunded to students who withdraw from the University or who are absent for a period of three weeks or more. The amount of the refund will be based on the saving in food costs only, since the overhead expense is not affected by the absence of the student.

No refunds will be made without the written consent of the student's parent or guardian, except to students who pay their own expenses.

No student will be given cash for any part of his or her refund until all outstanding checks have been honored by the bank on which they are drawn.

EXPENSES AT BALTIMORE

The fees and expenses for the schools located in Baltimore are:

		Tuition			
	Matriculation	*Resident*	*Non-Resident*	*Laboratory*	*Graduation*
Medicine	$10.00 (once only)	$250.00	$300.00	$10.00 yr.	$10.00
*Dentistry	10.00 " "	200.00	250.00	10.00 yr.	10.00
Pharmacy	10.00 " "	200.00	250.00	10.00 yr.	10.00
Law	10.00 " "	150.00	200.00	....	10.00
†Business Administration	10.00 " "	240.00	290.00	....	10.00

Applicants for admission to any of the schools are charged a record investigation fee of $2.00.

*Students are required to pay, once only, a dissecting fee of $15.00.

†Tuition fees, except for the summer session, are based upon a rate of $8.00 per semester hour. The tuition for anything less than the standard program of 15 semester hours is computed upon this basis. A fee of $5.00 is charged for late registration.

HONORS AND AWARDS

SCHOLARSHIP HONORS AND AWARDS

Chemical Alumnae Scholarship. The Chemical Alumnae of the University of Maryland gives a scholarship to the boy or girl in the State writing the best essay, as a result of the National Prize Essay Contest, of the American Chemical Society.

The Sigma Delta Sorority offers annually a hundred dollar ($100.00) loan, without interest, to any woman student registered in the University of Maryland and selected by the Scholarship Committee—the said Committee to be composed of the deans of all Colleges in which girls are registered, including the Dean of Women and the Dean of the Graduate School.

Scholarship Honors. Final honors for excellence in scholarship are awarded to one-fifth of the graduating class in each college. *First honors* are awarded to the upper half of this group; *second honors* to the lower half.

The Goddard Medal. The James Douglas Goddard Memorial Medal is awarded annually to the man from Prince George's County making the highest average in his studies and who at the same time embodies the most manly attributes. The medal is given by Mrs. Annie K. Goddard James, of Washington, D. C.

Sigma Phi Sigma Medal. The Delta Chapter of Sigma Phi Sigma Fraternity offers annually a gold medal to that freshman who makes the highest scholastic average during the first semester.

Alpha Zeta Medal. The Honorary Agricultural Fraternity of Alpha Zeta awards annually a medal to the agricultural student in the freshman class who attains the highest average record in academic work. The mere presentation of the medal does not elect the student to the fraternity, but simply indicates recognition of high scholarship.

Dinah Berman Memorial Medal. The Dinah Berman Memorial Medal is awarded annually to that sophomore who has attained the highest scholastic average of his class in the College of Engineering. The medal is given by Benjamin Berman.

Inter-fraternity Scholastic Trophy. The Delta Mu Fraternity has presented to the University a silver trophy which is awarded annually to that fraternity which had the highest average in scholarship for the preceding scholastic year. It becomes the permanent property of the fraternity which wins it three times.

Public Speaking Awards

President's Cup for Debate. An annual debate is held each year in January between the Poe and New Mercer Literary Societies for the "President's Cup," given by Dr. H. J. Patterson.

Alumni Medal for Debate. A gold medal is awarded by the Alumni Association each year to the best debater in the University, the test being a debate between picked teams from the two literary societies.

Public Speaking Prize. A prize of $25.00 in gold is given annually by Mr. W. D. Porter, of Hyattsville, Maryland, to be awarded to that student in the University who makes most improvement in the ability "to stand and think and to so express his thoughts while standing as to transmit them to his fellowmen accurately and in a common sense way."

The Oratorical Association of Maryland Colleges, consisting of Washington College, Western Maryland College, St. John's College and University of Maryland, offers each year gold medals for first and second places in an oratorical contest that is held between representatives of the four institutions.

Other Medals and Prizes

Athletics. The class of 1908 offers annually to "the man who typifies the best in college athletics" a gold medal. The medal is given in honor of former President R. W. Silvester, and is known as "The Silvester Medal for Excellence in Athletics."

Military Medal. The class of 1899 offers each year a gold medal to the member of the battalion who proves himself the best drilled soldier.

Company Sword. The class of 1897 awards annually to the captain of the best drilled company of the University battalion a silver mounted sword.

Citizenship Prize. A gold medal is presented annually by H. C. Byrd, a graduate of the class of 1908, to the member of the senior class who, during his collegiate career, has nearest typified the model citizen, and who has done most for the general advancement of the interests of the University.

Citizenship Prize for Women. The Citizenship Prize is offered by Mrs. Albert F. Woods to the woman member of the senior class who, during her collegiate career, has most nearly typified the model citizen, and has done most for the general advancement of the interest of the University.

Baltimore Schools

Description of the honors and awards in the Baltimore Schools will be found in the appropriate chapters of Section II.

STUDENT ACTIVITIES

The following description of student activities covers the student activities of the undergraduate divisions at College Park. The description of student activities in the Baltimore divisions is included in the appropriate chapters in Section II.

GOVERNMENT

Regulation of Student Activities. The association of students in organized bodies, for the purpose of carrying on voluntary student activities in orderly and productive ways, is recorganized and encouraged. All organized student activities, except those which are controlled by a special board or faculty committee, are under the supervision of the Committee on Student Affairs, subject to the approval of the President. Such organizations are formed only with the consent of the Committee on Student Affairs and the approval of the President. Without such consent and approval no student organization which in any way represents the University before the public, or which purports to be a University organization or organization of University students, may use the name of the University in connection with its own name, or in connection with its members as students.

The "Students' Handbook," issued annually and distributed to the students in the fall, contains full information in regard to student activities as well as in regard to academic regulations. Some of the more important items are given here.

Eligibility to Represent the University. Only students in good standing are eligible to represent the university in extra-curricular contests. No student while on probation may represent the University in such events as athletic contests, glee club concerts, dramatic performances and debates.

Discipline. In the government of the University, the President and faculty rely chiefly upon the sense of responsibility of the students. The student who pursues his studies diligently, attends classes regularly, lives honorably and maintains good behavior meets this responsibility. In the interest of the general welfare of the University, those who fail to maintain these standards are eliminated. Students are under the direct supervision of the University only when on the campus, but they are responsible to the University for their conduct wherever they may be.

Student Government. The General Students' Assembly consists of all the students and is the instrument for student government. It operates under a constitution. Its officers are a President, Vice-President and Secretary and an Executive Council representative of the several college classes.

The Students' Assembly meets every second Wednesday at 11.20 o'clock in the Auditorium for the transaction of business which concerns the whole student body. On alternate Wednesdays a program is arranged by the officers with the aid of the Department of Public Speaking. The Students' Executive Council, with the aid of the Committee on Student Affairs, which acts as an advisory board to the Council, performs the executive duties incident to managing student affairs.

The Honor System. The honor system is an integral part of the system of student government. It presupposes that the student will apply the honor principle in all his dealings—with fellow students, the faculty and the University. The honor system, in its narrower sense as applying to honor in examinations and quizzes, is administered by the Honor Court, consisting of two representatives from each of the five colleges.

Women Students' Government Association is an organization comprising all the women students, for the management of all affairs concerning the women students exclusively. It operates under a constitution. Its officers are the same as those of the General Students' Assembly. Its Executive Council has the advisory co-operation of the Dean of Women.

SOCIETIES

Honorary Fraternities. There are five honorary fraternities in the University at College Park organized to uphold scholastic and cultural standards in their respective fields. These are: Phi Kappa Phi, a national honorary fraternity open to honor students in all branches of learning; Alpha Zeta, a national honorary agricultural fraternity; Phi Mu, a local honorary engineering fraternity; Phi Chi Alpha, a local honorary chemical fraternity, and Sigma Delta Pi, a local honorary Spanish fraternity.

Fraternities and Sororities. Six national fraternities and one national sorority have chapters at College Park. These are: Kappa Alpha, Sigma Nu, Sigma Phi Sigma, Phi Alpha, Phi Sigma Kappa, Delta Sigma Phi (fraternities), and Alpha Omicron Pi (sorority). In addition there are four local fraternities and two local sororities: Nu Sigma Omicron, Delta Psi Omega, Delta Mu, Sigma Tau Omega (fraternity), and Sigma Delta, Kappa Xi (sororities).

The relations of these organizations to each other and to the University are governed by the regulations of the Interfraternity Council under the general supervision of the committee on student affairs. The council exerts a favorable influence upon standards of scholarship and conduct.

Miscellaneous Clubs and Societies. Many clubs and societies, with literary, scientific, social and other special objectives, are maintained in the University. Some of these are purely student organizations; others are conducted jointly by students and members of the faculty. The list is as follows: Agricultural Club, Agronomy Society, Animal Husbandry Society, Co-Ed Speakers' Club, Economics Club, Engineering Society, Home Economics Club, Horticultural Society, Latin-American Club, Le Cercle Francais, Live Stock Club, Maryland Chemical Club, New Mercer Literary Society, Poe Literary Society, Public Speaking Club; Baltimore City Club, Chess and Checker Club, District of Co-

lumbia Club, Gamma Alpha Pi Fraternity (Masonic) Keystone Club, Masque and Bauble Club, Men's Rifle Club, Old Dominion Club, Rossbcurg Club (formal dances), Scabbard and Blade, Women's Rifle Club, Women's Athletic Association.

Student Grange. The University is fortunate in having a chapter of the time-honored national fraternity known as "The Grange." With the exception of two faculty advisers, the Student Grange membership is made up entirely from the student body. New members are elected by ballot when they have proven their fitness for the organization.

The general purposes of the Student Grange are to furnish a means through which students keep in touch with State and national problems of agricultural, economic or general educational nature; to gain experience in putting into practice any parliamentary rules; to learn the meaning of leadership and to learn how to assume leadership that aids in the ultimate task of serving in one's community.

MUSICAL ORGANIZATIONS

Four musical organizations are maintained in connection with the Department of Music.

Chorus. Membership in the Chorus is open to all students, and to persons residing in the community. Oratories and standard part-songs are studied. Rehearsals are held weekly. The Chorus presents an annual festival of music in May.

Glee Club. A Glee Club, of limited membership, is recruited from the best vocal talent among the men of the University. Admission is gained through tests, or "try-outs," conducted at the beginning of the school year. The club holds two rehearsals a week. Public concerts are given.

Opera Club. The "Maryland Opera Club" was established in 1923 and gave its first performance in the spring of 1924. Its object is to foster and promote music in connection with dramatic art, and to develop and direct musical talent of students in the University. One or more public performances will be given each year.

Military Band. This organization, of limited membership, is a part of the military organization of the University, and is subject to the restrictions and discipline of the Department of Military Science and Tactics, but the direction of its work is under the Department of Music.

RELIGIOUS INFLUENCES

Religious Work Council. The Religious Work Council, comprising the President of the University, acting as chairman, all Student Pastors officially appointed by the Churches for work with the students of their respective faiths, and representatives of the religious organizations of

the students focalizes, reviews and stimulates the religious thought and activity of the student body. This Council has an executive secretary with an office in the Agricultural Building, who is daily at the service of the students and the churches.

Every assembly of the University is opened with religious exercises conducted by one of the Student Pastors or other clergymen secured for the purpose.

While there is no interference with any one's religion, religion itself is recognized, and every possible provision made that the student may keep in contact with the church of his choice.

The Christian Associations. The Young Men's Christian Association and the Young Woman's Christian Association serve primarily as agencies for co-ordinating and directing the religious activities of the men and women students respectively. In addition, they perform other important functions, such as welcoming new students, assisting in obtaining employment for worthy students and promoting morale and good fellowship in the student body. The two Associations, in co-operation with the committee on student affairs, publish and distribute free of charge the Students' Handbook to each student at the beginning of the scholastic year. This handbook contains detailed information in regard to registration, academic regulations and student activities. The Y. M. C. A. maintains a secretary, who divides his time between the College Park and Baltimore branches of the University.

The Program Committees of the two Associations provide two organized programs of religious study running through the college year, the Bible Class and the Discussion Group.

The Bible Class meets every Sunday morning under the leadership of the Dean of the College of Arts and Sciences for the systematic study of Biblical history and literature.

The Discussion Group, organized and conducted by the students, meets Sunday evening for the discussion of important religious, social and political questions, both national and international.

The Episcopal Club. The Episcopal Club is an organization of the Episcopal students (both men and women) and their friends, banded together for mutual fellowship and Christian service. It is a duly recognized unit of the National Student Council of the Protestant Episcopal Church.

STUDENT PUBLICATIONS

The Diamondback. A weekly, five-column newspaper, the Diamondback, is published by the students. This publication summarizes the University news, and provides a medium for discussion of matters of interest to the student body and the faculty.

The Reveille is the student annual published by the junior class. It is a mirror of student activities and opinions.

ALUMNI ORGANIZATION

The University has no general alumni association. The alumni are divided into several organizations, which elect representatives to the Alumni Council, an incorporated body which manages all general alumni affairs.

The different alumni units represent the Medical School, the Pharmacy School, the Dental School, the Law School, the School of Nursing, the School of Business Administration. One unit represents the group of colleges at College Park.

The Alumni Council is made up of elected representatives from the several units, with a membership of twenty-four. Each alumni unit in Baltimore elects two representatives to the Council; the alumni unit representing the College Park group of colleges elects twelve representatives. W. P. Cole, Jr., of Towson, Md., a graduate of the Engineering College and also a graduate of the Law School, is President of the Alumni Council.

SECTION II. ADMINISTRATIVE DIVISIONS

COLLEGE OF AGRICULTURE

HARRY J. PATTERSON, Dean.

Agriculture is the great primary pursuit of the human race. Permanent prosperity is in direct proportion to the producing capacity of the land. Land-Grant Colleges were founded to foster the teaching of scientific agriculture. The primary aim of the College of Agriculture of the University of Maryland is to teach the best and most practical methods of farm production, the economics of marketing and distribution, and methods of improving the economic and social position of the farmer. Agriculture is constantly changing; no cropping system can be worked out once and for all time; new as well as old pests and diseases must be constantly combatted; better feeding and breeding of live stock and more efficient marketing methods must be substituted for the old and inefficient methods if agriculture is to maintain its importance with the other industries. Above all, agriculture must be made profitable to the tiller of the soil and must be established as a paying business for those who engage in it as well as for town and city dwellers

The curricula of the College of Agriculture are planned to give the student thorough and practical instruction in agriculture and related sciences, and at the same time afford an opportunity to specialize along the lines in which he is particularly interested. Likewise, instruction is given which will prepare students for teaching positions in agriculture, for governmental investigation and experimental work, for positions as county agents, farm bureau leaders, farm supervisors, as well as for farming.

Departments

The College of Agriculture includes the following departments: (1) Agricultural Economics; (2) Agronomy (including Forage Crops, Grain Crops, Genetics; (3) Animal Husbandry; (4) Bacteriology; (5) Dairy Husbandry; (6) Entomology and Bee Culture; (7) Farm Forestry; (8) Farm Management; (9) Farm Mechanics; (10) Horticulture (including Pomology, Vegetable Gardening, Landscape Gardening and Floriculture); (11) Plant Pathology; (12) Plant Physiology and Bio-chemistry; (13) Poultry Husbandry; (14) Soils; (15) Veterinary Medicine.

Admission

The requirements for admission are the same as for other colleges and Schools. See Section I, "Entrance".

Requirements for Graduation

One hundred and thirty-four semester hours are required for graduation. The prescribed work is the same for all freshmen and sophomores (except for those specializing in Floriculture, Landscape Gardening and Entomology); thereafter the work required varies according to the major and minor subjects pursued by the students.

Major Subject

Before the beginning of the third year the student chooses a department in which he will do his major work. After choosing his major subject some member of the department (appointed by the head of the department) will become the student's advisor in the selection of courses. The advisor may designate a minor subject if he deems it necessary.

The minimum requirements for a major in one department are fourteen semester hours, and the maximum hours permitted to count toward a degree are thirty-five semester hours.

Farm Practice

Students without farm experience do not, as a rule, secure full benefit from any of the agricultural courses. A committee has been appointed for the purpose of assisting all students coming to the college without farm training to obtain a fair knowledge of actual farm practice. Some time during the year the committee will examine all members of the freshman class to determine whether or not their experience satisfies the farm practice requirements. Those not able to pass this examination will be required to spend at least three months on a farm designated or approved by the committee. If the student has had no experience whatsoever before entering college, he may be required to spend six to nine months on a farm. The committee reserves the right also to call on all students so placed for written reports showing the experience gained while on these farms.

Agricultural Experiment Station

The College of Agriculture works in cooperation with the Agricultural Experiment Station. Much of the subject matter in agricultural courses is tested by the station or furnished as original from its researches. Methods and material which are valuable in one state are often worthless in another, and the station makes it a point to find what is best for the State of Maryland.

The general farm, orchards, gardens and herds at the Experiment Station are available for laboratory and class use by the college.

Fellowships

A limited number of graduate fellowships which carry remuneration of $500 to $1,000 yearly are available to graduate students. Students

who hold these fellowships spend a portion of their time assisting in classes and laboratories. The rest of the time is used for original investigation or assigned study. (See Graduate School.)

CURRICULA IN AGRICULTURE

All students registered for agriculture take the same work in the freshman and sophomore years, except those registered for landscape gardening, floriculture and entomology. At the end of the sophomore year they may elect to specialize along the lines in which they are particularly interested.

	Semester I	Semester II
Freshman Year		
Gen'l Chem. and Qual. Analysis (Chem. 101)	4	4
*General Zoology (Zool. 101)	4	..
*General Botany (Bot. 101)	..	4
Composition and Rhetoric (Eng. 101)	3	3
Public Speaking (P. S. 101 and 102)	1	1
Basic R. O. T. C. (M. I. 101)	1	1
(Elect one of the following groups)		
Group A—		
Types and Breeds (A. H. 101)	3	..
Principles of Vegetable Culture (Hort. 111)	..	3
Group B—		
Language	3	3
Group C—		
Mathematics	3	3
Group D—		
Elements of Social Science (Soc. Sci. 101)	..	3

	Semester I	Semester II
Sophomore Year		
Agricultural Chemistry (Chem. 116)	3	3
Geology (Geol. 101)	3	..
Principles of Soil Management (Soils 101)	..	3
Elementary Pomology (Hort. 101)	3	..
Field Crop Production (Agron. 101-102)	3	3
Feeds and Feeding (A. H. 102)	3	..
Dairying (D. H. 101)	..	3
Principles of Economics (Econ. 105 A)	..	3
Basic R. O. T. C. (M. I. 102)	2	2

AGRONOMY

The curriculum in agronomy aims to give the student the fundamental principles of crop production. Special attem:t is made to adapt the work to the young man who wishes to apply scientific principles of field crop culture and improvement on the farm. At the same time enough

*Offered each semester.

freedom is given the student in the way of electives so that he can register for subjects which might go along with the growing of crops on his particular farm. A student graduating from the course in agronomy should be well fitted for general farming, investigational work in the State or Federal Experiment Stations, or county agent work.

The Agronomy Department has a large, well equipped laboratory in the new Agricultural Building and a greenhouse for student use, besides free access to the Experiment Station fields and equipment.

Junior Year	*Semester* I	II
Genetics (Agron. 110)	3	..
Grain and Hay Judging (Agron. 104)	1	..
Grading Farm Crops (Agron. 103)	..	2
Crop Varieties (Agron. 112)	..	2
General Bacteriology (Bact. 101)	3	..
Soil Micro-Biology (Soils 107)	..	3
Expository Writing (Eng. 105 and 106)	2	2
Plant Physiology (Plt. Phy. 101)	4	..
Agricultural Economics (A. E. 101)	3	..
Electives	2	8

Senior Year	*Semester* I	II
Crop Breeding (Agron. 113)	2	..
Advanced Genetics (Agron. 111)	3	..
Methods of Crop Investigation (Agron. 121)	..	2
Cropping Systems and Methods (Agron. 120)	..	2
Soil Survey and Classification (Soils 105)	3	..
Farm Drainage (F. Mech. 107)	..	2
Farm Machinery (F. Mech. 101)	3	..
Farm Forestry (For. 101)	..	3
Farm Management (F. M. 102)	4	..
Seminar (Agron. 129)	1	1
Electives	1	7

AGRICULTURAL EDUCATION

The objectives of the curriculum in Agricultural Education are the teaching of secondary vocational agriculture, the work of the county agents, and allied lines of the rural educational service.

(For special requirements and curriculum see page 87, College of Education.)

ANIMAL HUSBANDRY

The courses in animal husbandry have been developed with the idea of teaching the essential principles underlying the breeding, feeding, growth, development and management of livestock, together with the economics of the livestock industry.

The curriculum in animal husbandry is so planned as to allow of plenty of latitude in the selection of courses outside of the department, thus giving the student a broad, fundamental training and fitting him to become the owner, manager or superintendent of general or special livestock farms.

Opportunity for specialization is offered to those who may desire to become instructors or investigators in the field of animal husbandry.

Some livestock are maintained at the university. In addition, there are available, for use in instruction, the herds of livestock owned by the Federal Bureau of Animal Industry at Beltsville, Maryland. Through the courtesy of Maryland breeders, some private herds are also available for inspection and instruction.

Junior Year	*Semester* I	II
Expository Writing (Eng. 105 and 106)	2	2
General Bacteriology (Bact. 101 and 102)	3	3
Agricultural Economics (A. E. 101)	3	..
Principles of Breeding (A. H. 103)	..	3
Swine Production (A. H. 104)	3	..
Horse and Mule Production (A. H. 106)	..	2
Anatomy Physiology (V. M. 101)	3	..
Genetics (Agron. 110)	3	..
Electives	..	7

Senior Year	*Semester* I	II
Farm Management (F. M. 102)	4	..
Sheep Production (A. H. 107)	..	3
Farm Machinery (F. Mech. 101)	3	..
Animal Diseases (V. M. 102)	..	3
Meat and Meat Products (A. H. 108)	2	..
Farm Drainage (F. Mech. 107)	..	2
Physiological Chemistry (Chem. 119)	4	..
Seminar (A. H. 112)	1	1
Electives	3	8

BACTERIOLOGY

The present organization of this department was brought about with two main purposes in view. The first is to give all the students of the University an opportunity to obtain a general knowledge of the subject. This is of prime importance, as bacteriology is a basic subject and is of as much fundamental importance as physics or chemistry. The second purpose, and the one for which this curriculum was designed, is to fit students for positions along bacteriological lines. This includes dairy bacteriologists and inspectors; soils bacteriologists; federal, state and municipal bacteriologists for public health positions; research positions; commercial positons, etc. At present, the demand for individuals quali-

fied for this work is much greater than the supply, and with the development of the field this condition is bound to exist for some time.

Sophomore Year	*Semester* I	*Semester* II
Agricultural Chemistry (Chem. 116)	3	3
*Physics (Phys. 103) or Elements of Social Science (Soc. Sci. 101)		
Language	..	4
Feeds and Feeding (A. H. 102)	3	3
Dairying (D. H. 101)	3	..
Geology (Geol. 101)	..	3
Electives	3	..
Basic R. O. T. C. (M. I. 102)	3	3
	2	2

Junior Year	*Semester* I	*Semester* II
General Bacteriology (Bact. 101 and 102)	3	3
Expository Writing (Eng. 105 and 106)	2	2
Language	3	3
Agricultural Economics (A. E. 101)	3	..
Market Milk (D. H. 106)	4	..
Electives	2	7

Senior Year	*Semester* I	*Semester* II
Advanced Bacteriology (Bact. 104)	2-5	2-5
Dairy Bacteriology (Bact. 103)	3	3
Physiological Chemistry (Chem. 119)	4	..
Seminar (Bact. 109)	1	1
Electives	4-7	8-11

*Only those students who are excused from Physics will take Economics.

DAIRY HUSBANDRY

The courses in dairy husbandry are organized to give the student a working knowledge of the basic principles underlying successful dairy production, market milk, dairy manufacturing and marketing. The options offered in dairy production are planned to meet the needs of students desiring to become breeders of purebred dairy cattle, farm managers and teachers. The options offered in dairy manufactures are planned to meet the needs of students desiring to enter commercial work in the manufacture of butter, cheese and ice cream and those desiring to become inspectors of these products.

A dairy herd is maintained for experimental purposes as well as for teaching, the care, feeding and management of dairy cattle. Graduates from these courses should be fitted to take up dairy farming, teaching, or experiment station work. Students are sent throughout the state to

supervise Advanced Registry tests and to study general conditions as they exist on leading dairy farms.

The graduate courses are designed to meet the needs of those who desire to take up advanced work in dairy husbandry. Proximity to the laboratories and libraries of the Department of Agriculture in Washington and the Government herds at Beltsville place this department in a position to offer exceptional opportunities for graduate work in the fields of production, manufacture and marketing.

Five Weeks' Course in Dairy Husbandry

Testing milk and cream. One week, December 28 to January 2, 1926.

Dairy production or Dairy Manufacture. Four weeks, January 4 to 30, 1926.

The subject matter in these courses is entirely practical, consisting of work in the testing and manufacturing laboratories and with the herd, supplemented by lectures.

In the Babcock testing course, the history, volume and value of dairy products are taken up as well as the study of the secretion of milk, the composition of milk, cream, condensed, evaporated milks and powders, the proper sampling of dairy products, and their accurate testing.

In the dairy production course which begins at the close of the milk testing work, practice will be given in the care, feeding and management of dairy cows, including feeds and feeding, breeds and breeding, Cow Testing Association and Advanced Registry work.

The Dairy Manufacturing course which also begins at the end of the week on testing takes up the pasteurization and processing of milk into butter, cheese and ice cream.

The purpose of the testing course is to supply milk and cream testers for milk plants and creameries; the production course to provide cow testers for Association and Advanced Registry work, and provide farm boys with information concerning dairy improvement and the manufacturing course to supply training to those interested in farm butter making and in factory work.

Admission and Expenses

The requirements for entrance are that the applicants be at least 18 years of age and have a good common school education. No entrance examination is required. Persons having practical experience on the farm or who are working in milk receiving stations or milk plants should derive the greatest benefit from these courses. No tuition is charged to residents of Maryland. A fee of $5 to cover cost of materials supplied in each of the various laboratories is assessed in this three weeks' course.

Room and board may be had with private families for from $10 to $15 per week. For additional information address inquiries to Dairy Husbandry Department, Unversity of Maryland, College Park, Maryland.

Dairy Production

Junior Year	*Semester* I	*Semester* II
Expository Writing (Eng. 105 and 106)	2	2
General Bacteriology (Bact. 101)	3	..
Dairy Production (D. H. 104)	4	..
Farm Dairying (D. H. 103)	3	..
Judging of Dairy Cattle and Breed Study (D. H. 102)	..	2
Principles of Breeding (A. H. 103)	..	3
Agricultural Economics (A. E. 101)	3	..
Electives	2	10

Senior Year	*Semester* I	*Semester* II
Market Milk (D. H. 106)	4	..
Dairy Bacteriology (Bact. 103)	3	3
Animal Diseases (V. M. 102)	..	3
Advanced Testing (D. H. 107)	..	4
Thesis (D. H. 109)	2	2
Seminar (D. H. 108)	1	1
Electives	7	4

Dairy Manufactures

Sophomore Year	*Semester* I	*Semester* II
Agricultural Chemistry (Chem. 116)	3	3
Geology (Geol. 101)	3	..
Physics (Phy. 103)	..	4
Basic R. O. T. C. (M. I. 102)	2	2
Field Crop Production (Agron. 101)	3	..
Dairying (D. H. 101)	..	3
Elements of Social Science (Soc. Sci. 101)	3	4
Electives	3	1

Junior Year	*Semester* I	*Semester* II
Expository Writing (Eng. 105 and 106)	2	2
Agricultural Economics (A. E. 101)	3	..
General Bacteriology (Bact. 101)	3	..
Accountancy (Econ. 120)	3	3
Farm Dairying (D. H. 103)	3	..
Market Milk (D. H. 106)	4	..
Marketing and Grading of Dairy Products (D. H. 110)	..	3
Electives	..	6

Senior Year	*Semester* I	*Semester* II
Dairy Manufacture (D. H. 105)	3	3
Dairy Bacteriology (Bact. 103)	3	3
Advanced Testing (D. H. 107)	..	4
Seminar (D. H. 108)	1	1
Thesis (D. H. 109)	2	2
Electives	8	4

ENTOMOLOGY AND BEE CULTURE

This department is concerned with the teaching of entomology to all agricultural students as basic for future work in economic entomology and in the preparation of technically trained entomologists.

The success of the farmer and particularly the fruit grower is in a large measure dependent upon his knowledge of the methods of preventing or combating the pests that menace his crops each year. Successful methods of control are emphasized in the economic courses.

There is an ever-increasing demand for trained entomologists. The entomological work of the Experiment Station, the Extension Service, the College of Agriculture and the office of the State Entomologist being in one administrative unit, enables the student in this department to avail himself of the many advantages accruing therefrom. Advanced students have special advantages in that they may be assigned to work on station projects already under way.

Courses in beekeeping are offered and new courses will be added as the demand warrants. The field for specialists in beekeeping is especially attractive now and commercial beekeeping is productive of greater profits each year.

Sophomore Year	*Semester* I	*Semester* II
Embryology (Zool. 120)	..	4
General Entomology (Ent. 101)	..	3
Physics (Physics 101)	4	4
Expository Writing (Eng. 105 and 106)	2	2
Organic Chemistry (Chem. 110)	4	4
Basic R. O. T. C. (M. I. 102)	2	2
Electives	6	4

Junior Year	*Semester* I	*Semester* II
Advanced Entomology (Ent. 102)	4	4
Economic Zoology (Zool. 104)	..	1
General Bacteriology (Bact. 101-102)	3	3
Electives	10	9

Senior Year	*Semester* I	*Semester* II
Economic Entomology (Ent. 103)	5	5
Thesis (Ent. 105)	2	2
Seminar (Ent. 110)	1	1
Electives	9	9

FARM MANAGEMENT AND AGRICULTURAL ECONOMICS

In this department are grouped courses in farm management and agricultural economics.

Farm management has been defined as the business of the individual farmer to organize his business so as to produce the greatest continuous

profit. This can be done, however, only when the organization is in accordance with the broader principles of agricultural economics. It requires not only knowledge of many factors involved in the production of crops and animals, but also administrative ability to coordinate them into the most efficient farm organization. Farming is a business and as such demands for its successful conduct the use of business methods. As a prerequisite to the technical farm management course there is offered a course in farm accounting. This course is not elaborate, but is designed to meet the need for a simple yet accurate system of farm business records.

The aim of the farm management course is to assist the student to perceive the just relationship of the several factors of production and disposition as applicable to local conditions and to develop in him executive and administrative capacity.

Agricultural economics considers the fundamental principles underlying production, distribution and consumption, more especially as they bear upon agricultural conditions. Land, labor and capital are considered in their relationship to agriculture.

The farmer's work does not end with the production of crops or animal products. More and more it is evident that economical distribution is as important a factor in farming as is economical production.

Students well trained in farm management and agricultural economics are in demand for county agent work, farm bureau work, experiment station or United States Government investigation and college or secondary school teaching.

	Semester	
Junior Year	*I*	*II*
Agricultural Economics (A. E. 101)	3	..
Marketing of Farm Products (A. E. 102)	..	3
Farm Accounting (F. M. 101)	..	3
Business Law (Econ. 118)	3	3
Economic Geography and Industry (Econ. 102)	3	..
Grading Farm Crops (Agron. 103)	..	2
Business Organization (Econ. 115)	3	..
Agricultural Statistics (Agron. 122 and 123)	2	2
Expository Writing (Eng. 105 and 106)	2	2
Electives	3	4

	Semester	
Senior Year	*I*	*II*
Co-operation in Agriculture (A. E. 103)	3	..
Transportation of Farm Products (A. E. 104)	..	3
Seminar in Marketing (A. E. 105)	1-3	..
Seminar (A. E. 106)	..	1-3
Farm Management (F. M. 102)	4	..
Farm Machinery (F. Mech. 101)	3	..
Corporation Finance (Econ. 116)	..	3
Rural Sociology and Educational Leadership (Ed. 122)	..	3
Economic History of the United States (Econ. 104)	..	3
Electives	5-7	4-6

FARM MECHANICS

The Department of Farm Mechanics is organized to offer students of agriculture training in those branches of agriculture which are based upon engineering principles. These subjects may be grouped under three heads: farm machinery, farm buildings, and farm drainage.

The modern tendency in farming is to replace hand labor, requiring the use of many men, by large machines which do the work of many men yet require only one man for their operation. In many cases horses are being replaced by tractors to supply the motive force for these machines. Trucks and automobiles are used on many farms. It is highly advisable that the student of any branch of agriculture have a working knowledge of the construction and adjustments of these machines.

About one-sixth of the total value of farms is invested in the buildings. The study of the design of the various buildings, from the standpoint of convenience, economy and appearance, is, therefore, important.

The study of drainage includes the principles of tile drainage, the layout and construction of tile drain systems, the use of open ditches, and a study of the Maryland drainage laws.

GENERAL AGRICULTURE

Those who do not care to specialize in any particular phase of agriculture will pursue the following curriculum:

	Semester	
Junior Year	*I*	*II*
Diseases of Plants (Plt. Path. 101)	3	..
Plant Physiology (Plt. Phy. 101)	4	..
General Bacteriology (Bact. 101)	3	..
Expository Writing (Eng. 105 and 106)	2	2
Poultry (P. H. 101)	..	3
Genetics (Agron. 110)	3	..
Farm Accounting (F. M. 101)	..	3
Principles of Breeding (A. H. 103)	..	3
Agricultural Economics (A. E. 101)	3	..
Electives	..	6

	Semester	
Senior Year	*I*	*II*
Farm Management (F. M. 102)	4	..
Farm Machinery (F. Mech. 101)	3	..
Farm Dairying (D. H. 103)	3	..
Gas Engines, Tractor and Automobiles (F. Mech. 102)	..	4
Cropping Systems and Methods (Agron. 120)	..	2
Farm Drainage (F. Mech. 107)	..	2
Farm Forestry (Forestry 101)	..	3
Electives	7	6

HORTICULTURE

There are several reasons why the State of Maryland should be pre-eminent in the different lines of horticulture and offers such excellent opportunities for horticultural enterprises. A few of the more evident ones are the wide variaton in soil and climate from the Eastern Shore to the mountainous counties of Allegany and Garrett in the west, the nearness to all of the large eastern markets and the large number of railroads, interurban lines and waterways, all of which combine to make marketing easy and comparatively cheap.

The Department of Horticulture offers four major lines of work, namely: pomology, olericulture, floriculture and landscape gardening. Students wishing to specialize in horticulture can arrange to take either a general course during the four years or enough work is offered in each division to allow students to specialize during the last two years in any of the four divisions. The courses have been planned to cover such subject matter that upon their completion students should be fitted either to engage in commercial work, county agent work, or teaching and investigational work in the state and federal institutions.

The department has at its disposal about twenty acres of ground devoted to vegetable gardening, eighteen acres of orchards, small fruits and vineyards, and twelve greenhouses, in which flowers and forcing crops are grown. Members of the teaching staff are likewise members of the experiment station staff and thus students have an opportunity to become acquainted with the research which the department is carrying on. Excellent opportunity for investigating new problems is afforded to advanced undergraduates and to graduate students.

Students who intend to specialize in pomology or olericulture are required to take the same subjects which other agricultural students take during the first two years. Students who specialize in floriculture or landscape gardening, however, will take a slightly different curricula. It is felt that such students require certain special courses, which it is unnecessary to require of all agricultural students. The curricula follow:

Pomology

	Semester I	Semester II
Junior Year		
Systematic Pomology (Hort. 103)	3	..
Small Fruit Culture (Hort. 105)	..	2
Fruit and Vegetable Judging (Hort. 107)	2	..
Expository Writing (Eng. 105 and 106)	2	2
Plant Physiology (Plt. Phys. 101)	4	..
General Floriculture (Hort. 121)	2	..
Diseases of Plants (Plt. Path. 101)	3	..
General Entomology (Ent. 101)	..	3
Genetics (Agron. 110)	3	..
Electives	..	10

	Semester I	Semester II
Senior Year		
Commercial Fruit Growing (Hort. 102)	3	..
Economic Fruits of the World (Hort. 106)	..	2
Horticultural Seminar (Hort. 143)	1	1
General Landscape Gardening (Hort. 131)	..	2
Farm Management (F. M. 102)	4	..
Horticultural Breeding Practice (Hort. 141)	..	1
Horticultural Research and Thesis (Hort. 142)	2	2
Electives	7	9

Olericulture

	Semester I	Semester II
Junior Year		
Small Fruit Culture (Hort. 105)	..	2
Diseases of Plants (Plt. Path. 101)	3	..
Genetics (Agron. 110)	3	..
Expository Writing (Eng. 105 and 106)	2	2
General Floriculture (Hort. 121)	2	..
Plant Physiology (Plt. Phys. 101)	4	..
Truck Crop Production (Hort. 113)	..	3
Vegetable Forcing (Hort. 116)	..	3
Electives	3	7

	Semester I	Semester II
Senior Year		
Farm Management (F. M. 102)	4	..
General Landscape Gardening (Hort. 127)	..	2
Horticultural Breeding Practice (Hort. 141)	..	1
Tuber and Root Crops (Hort. 112)	2	..
Systematic Olericulture (Hort. 114)	3	..
Advanced Truck Crop Production (Hort. 115)	..	2
Horticultural Research and Thesis (Hort. 142)	2	2
Horticultural Seminar (Hort. 143)	1	1
Electives	5	9

Floriculture

	Semester I	Semester II
Sophomore Year		
Agricultural Chemistry (Chem. 116)	3	3
Plant Physiology (Plt. Phy. 101)	4	..
General Geology (Geol. 101)	3	..
Principles of Soil Management (Soils 101)	..	3
General Floriculture (Hort. 121)	2	..
General Landscape Gardening (Hort. 131)	..	2
Elementary Pomology (Hort. 101)	3	..
Basic R. O. T. C. (M. I. 102)	2	2
Electives	..	7

Junior Year	Semester I	II
Greenhouse Management (Hort. 122)	3	3
Floricultural Practice (Hort. 123)	2	2
Floricultural Trip (Hort. 127)	..	1
Greenhouse Construction (Hort. 124)	..	2
Garden Flowers (Hort. 126)	3	..
Expository Writing (Eng. 105-106)	2	2
Principles of Economics (Econ. 105)	..	4
Diseases of Plants (Plt. Path. 101)	3	..
Systematic Botany (Bot. 102)	..	2
Elements of Landscape Design (Hort. 133)	3	..
Electives	1	1

Senior Year	Semester I	II
Commercial Floriculture (Hort. 125)	3	3
Plant Materials (Hort. 132)	2	2
Vegetable Forcing (Hort. 116)	..	3
Agricultural Economics (A. E. 101)	3	..
Horitcultural Breeding and Practice (Hort. 141)	..	1
Horticultural Seminar (Hort. 143)	1	1
Horticultural Research and Thesis (Hort. 142)	2	2
Diseases of Ornamentals (Plt. Path. 106)	2	..
Electives	4	5

Landscape Gardening

Freshman Year	Semester I	II
Gen. Chem. and Qual. Anal. (Inorg. Chem. 101)	4	4
General Zoology (Zool. 101)	4	..
General Botany (Bot. 101)	..	4
Composition and Rhetoric (Eng. 101)	3	3
Public Speaking (P. S. 101-102)	1	1
Algebra; Trigonometry (Math. 101)	3	3
Basic R. O. T. C. (M. I. 101)	1	1

Sophomore Year	Semester I	II
French or German	3-4	3-4
Plant Physiology (Plt. Phy. 101)	4	..
General Geology (Geol. 101)	3	..
Principles of Soil Management (Soils 101)	..	3
Plane Surveying (Sur. 101-102)	1	2
General Landscape Gardening (Hort. 131)	..	2
Expository Writing (Eng. 105-106)	2	2
Engineering Drafting (Dr. 101)	1	1
Basic R. O. T. C. (M. I. 102)	2	2
Electives	1-0	2-1

Junior Year	Semester I	II
Elementary Pomology (Hort. 101)	3	..
Plant Materials (Hort. 132)	2	2
History of Landscape Gardening (Hort. 135)	..	1
Elements of Landscape Design (Hort. 133)	3	..
Garden Flowers (Hort. 126)	3	..
Principles of Economics (Econ. 101)	..	4
Diseases of Plants (Plt. Path. 101)	3	..
Systematic Botany (Bot. 102)	..	2
Farm Drainage (F. Mech. 107)	..	2
Electives	6	6

Senior Year	Semester I	II
Highways (C. E. 103)	4	..
Landscape Design (Hort. 134)	3	3
Landscape Construction and Maintenance (Hort. 136)	..	1
Civic Art (Hort. 137)	2	..
Horticultural Research and Thesis (Hort. 142)	2	2
Horticultural Seminar (Hort. 143)	1	1
Electives	5	10

The course in Poultry Husbandry is designed to give the student a broad view of the practices of poultry raising. Those students who expect to develop into teachers, extension workers or investigators should choose as electives such subjects as psychology, economic history, sociology, philosophy, political science and kindred subjects.

POULTRY HUSBANDRY

Junior Year	Semester I	II
Poultry Production (Poultry 103)	..	4
Expository Writing (Eng. 105 and 106)	2	2
General Bacteriology (Bact. 101-102)	3	3
Genetics (Agron. 110)	3	..
Poultry Keeping (Poultry 102)	4	..
Agricultural Economics (A. E. 101)	3	..
Electives	2	4

Senior Year	Semester I	II
Farm Management (F. M. 102)	4	..
Farm Accounting (F. M. 101)	..	4
Animal Diseases (V. M. 102)	..	3
Poultry Breeds (Poultry 104)	4	..
Poultry Management (Poultry 105)	..	4
Marketing Farm Products (A. E. 102)	..	3
Electives	6	3

SOILS

The Department of Soils gives instruction in the physics, chemistry and biology of the soil, the courses being designed to equip the future farmer with a complete knowledge of his soil and also to give adequate training to students who desire to specialize in soils. Students who are preparing to take up research or teaching are expected to take graduate work in addition to the regular undergraduate courses that are offered. The department possesses the necessary equipment and facilities for the instruction in these subjects, and in addition affords opportunities for the student to come in contact with the research at the Agricultural Experiment Station, especially in the pot culture laboratories and on the experimental fields at the station and in other parts of the State.

Graduate students will find unusual opportunities to fit themselves for teaching soils in agricultural colleges, to conduct research in experiment stations, and to carry on work with the Bureau of Soils, United States Department of Agriculture.

	Semester	
Junior Year	*I*	*II*
Expository Writing (Eng. 105 and 106)	2	2
Agricultural Economics (A E. 101)	3	..
General Bacteriology (Bact. 101)	3	..
Soil Micro-biology (Soils 107)	..	3
Fertilizers and Manures (Soils 102)	3	..
Soil Fertility (Soils 103)	..	3
Plant Physiology (Plt. Phys. 101)	4	..
Cropping Systems and Methods (Agron. 120)	..	2
Electives	5	4

	Semester	
Senior Year	*I*	*II*
Farm Management (F. M. 102)	4	..
Methods of Soil Investigation (Soils 110)	..	2
Soil Surveying and Classification (Soils 105)	3	..
Soil Technology (Soils 109)	3	3
Farm Drainage (F. Mech. 107)	..	2
Seminar (Soils 111)	1	1
Electives	7	5

VETERINARY MEDICINE

A definite project dealing with the genital diseases of domestic animals is now being developed. This research course is offered for those graduates of approved veterinary colleges who desire to lay special emphasis on this subject in connection with their work for an advanced degree.

The nearness to the libraries and laboratories of the various Federal Departments in Washington offers special facilities for the investigator.

SHORT COURSE IN AGRICULTURE

A. Students who have had four years of high school training or its equivalent may follow a two-year curriculum of regular college courses designated by the dean. A certificate is granted by the college upon completion of the work. If, after the student has been awarded a certificate, he is desirous of taking work for a degree, he may continue for two years with a regular college curriculum.

B. Another two-year curriculum, commonly known as "The Two-Year Agricultural Course," is sub-collegiate in nature. To enter this two-year work the applicant must have preparation at least equal to the work given in the seventh grade of the public schools. At the conclusion of the course students having completed the regular work as outlined are given a certificate stating the studies pursued during the time spent in the college. No college credit toward a degree is given for work done in any of these courses.

AGRICULTURAL EXPERIMENT STATION

Harry J. Patterson, Director.

The agricultural work of the University naturally comprises three fields: research, instruction and extension. The Agricultural Experiment Station is the research agency of the University, which has for its purpose the increase of knowledge relating to agriculture, primarily for the direct benefit of the farmer. It is also the real source of agricultural information for use in the classroom and for demonstrations in the field.

The Experiment Station work is supported by both State and Federal appropriations. The Hatch act passed by Congress in 1887 appropriates $15,000 annually; the Adams act, passed in 1906, provides an additional $15,000 annually, and the Purnell act, passed in 1925, provides $20,000 for the next fiscal year and an increase of $10,000 each year until the amount reach $60,000 annually.

The objects, purposes and work of the Experiment Stations as set forth by these acts is as follows:

"That it shall be the object and duty of said Experiment Stations to conduct original researches or verify experiments on the physiology of plants and animals; the diseases to which they are severally subject, with the remedies for the same; the chemical composition of useful plants at their different stages of growth; the comparative advantages of rotative cropping as pursued under a varying series of crops; the capacity of new plants or trees for acclimation; the analysis of soils and water; the chemical composition of manures, natural or artificial, with experiments designed to test their comparative effects on crops of different kinds; the adaptation and value of grasses and forage plants; the composition and digestibility of the different kinds of food for domestic animals; the scientific and economic questions involved in the production of butter and cheese; and such other researches or experiments bearing directly on the agricultural industry of the United States as may in each case be deemed advisable, having due regard to the varying conditions and needs of the respective States or Territories."

The Purnell act also permits the appropriation to be used for conducting investigations and making experiments bearing on the manufacture, preparation, use, distribution and marketing of agricultural products and for such Economie and Sociological investigations as have for their purpose the development and improvement of the rural home and rural life.

The Maryland Station in addition to the work conducted at the University operates a sub-station farm of 50 acres at Ridgely, Caroline County, and a farm of about 60 acres at Upper Marlboro for tobacco

investigations. Experiments in cooperation with farmers are conducted at many different points in the State. These tests consist of studies with soils, fertilizers, crops, orchards, insect and plant disease control and stock feeding.

The results of the Experiment Station work during the past quarter of a century have developed a science of agriculture to teach and have laid a broad and substantial foundation for agricultural development. The placing of agricultural demonstrations and extension work on a national basis has been the direct outgrowth of the work of the Experiment Stations.

The students taking courses in agriculture are kept in close touch with the investigations in progress.

EXTENSION SERVICE

THOMAS B. SYMONS, Director

Agriculture and Home Economics

The agricultural and home economics extension service of the University, in co-operation with the United States Department of Agriculture, carries to the people of the State through practical demonstrations conducted by specialists of the College of Agriculture and county agents, the results of investigations in the fields of agriculture and home economics. The organization consists of the administrative forces, including the director, assistant director, specialists and clerical force, the county agricultural demonstration agents, and the home demonstration agents in each county of the State. The county agents and the specialists jointly carry on practical demonstrations under the several projects in the production and marketing of crops or in home-making, with the view of putting into practice on the farms of the State improved methods of agriculture and home economics that have stood the test of investigation, experimentation and experience. Movable schools are held in the several counties. At such schools the specialists discuss phases of agriculture and home economics in which the people of the respective counties are particularly interested.

The work of the Boys' Agricultural Clubs is of especial importance from an educational point of view. The specialists in charge of these projects, in co-operation with the county agricultural agent and the county school officers and teachers, organize the boys of the several communities of the county into agricultural clubs for the purpose of teaching them by actual practice the principles underlying agriculture. The boys hold regular meetings for the discussion of problems connected with their several projects and for the comparison of experiences. Prizes are offered to stimulate interest in the work.

The home economics specialists and agents organize the girls into clubs for the purpose of instructing them in the principles underlying canning, drying and preserving fruits and vegetables, cooking, dressmaking and other forms of home economics work.

The educational value of the demonstrations, farmers' meetings, movable schools, clubs and community shows is incalculable. They serve to carry the institution to the farmer and to the home-maker.

General Extension

This phase of the extension service of the University is conducted in co-operation with the United States Bureau of Education, and is intended to make the general branches of the educational curriculum of greater service to the people of the State.

COLLEGE OF ARTS AND SCIENCES

FREDERIC E. LEE, Dean.

The College of Arts and Sciences provides four years of liberal training in biological sciences, economics and business administration, history, languages and literature, mathematics, philosophy, physical sciences, political science, psychology and sociology. It thus affords the student an opportunity to acquire a general education which shall serve as a foundation for success in whatever profession or vocation he may choose. It particularly prepares the way and lays the foundation for the learned professions of law, medicine, theology, teaching and even for the more technical professions of engineering, public health service and business administration. Through the aid which it furnishes other colleges of the University it aims to give students of these colleges the broad outlook necessary for liberal culture and for public service.

This College is an outgrowth of the Division of Language and Literature of Maryland State College and later of the School of Liberal Arts of the University. In 1921 the School of Liberal Arts and the School of Chemistry were combined and other physical and biological sciences were brought into the newly formed College of Arts and Sciences, thus making it a thoroughly standardized Arts and Science College. In 1922-1923 the scope and program of the various groups and departments of the College were extensively reorganized in order to broaden and amplify the courses of instruction offered.

Requirements for Admission

The requirements for admission to the College of Arts and Sciences are in general the same as those for admission to the other colleges and schools of the University. See Section I, "Entrance".

For admission to the pre-medical and pre-dental curricula two years of any one foreign language in addition to the regularly prescribed units are required. A detailed statement of the requirements for admission to the School of Medicine and the relation of these to the pre-medical curriculum will be found under the School of Medicine.

Departments

There are twelve departments under the administrative control of the College of Arts and Sciences: Botany, Classical Languages, Chemistry, English, History, Mathematics, Modern Languages, Philosophy and Ethics, Physics, Public Speaking, Social and Political Science, and Zoology and Aquiculture. In addition to these there are other departments which, although they are under the control of other colleges of the University, furnish instruction for the College of Arts and Sciences: Bac-

teriology, Entomology, Geology, Military Science, Physical Education, and Psychology. Students in this college are also permitted to elect certain courses in the Colleges of Agriculture, Education, Engineering, and Home Economics.

Degrees

The degrees conferred upon students who have met the prescribed conditions for a degree in the College of Arts and Sciences are: Bachelor of Arts and Bachelor of Science.

The baccalaureate degree from the College of Arts and Sciences may be conferred upon a student who has satisfied all entrance requirements and has secured credit for a minimum of 127 credit hours including six hours of military science for all able-bodied men students and six hours of physical education for all women students and one hour of library science for all students, except those taking the special curricula in chemistry and the combined courses in which there are special requirements.

Graduates of this college who have completed the regular course are awarded the degree of Bachelor of Arts, except that, upon request, any student who has met the requirements for that degree may be awarded the degree of Bachelor of Science, provided the major portion of his work has been done in the field of science and his application has the approval of the department in science in which his major work has been carried. Students who have elected the combined program of Arts and Medicine are granted the degree of Bachelor of Arts or Bachelor of Science after the completion of at least three years of the work of this college and the first year of the School of Medicine. Those electing the combined five-year Academic and Nursing Course are awarded the degree of Bachelor of Science upon the completion of the full course. Those taking the combined course in Arts and Law will be awarded the Bachelor of Arts degree after the completion of three years of the work of this college and one year of full-time law courses, or its equivalent, in the University Law School. This last combined program will not be in full effect until after September, 1927, by which time the Law School will require two years of pre-law courses for admission.

The last thirty hours of Arts courses in all the combined programs must be completed in residence at College Park. Likewise, the last thirty hours of the regular course leading to a degree must be taken in College Park.

Normal Load

The normal load for the Freshman year is seventeen hours a week for the first semester, including one hour of library science and one hour of military science or physical education, and sixteen hours for the second semester. The Sophomore load is seventeen hours per semester, two hours of which are military science or physical education.

The normal load for the Junior and Senior years will be fifteen hours per week.

Absolute Maximum

Students whose average grade for the preceding year is a straight B or above may be permitted to take additional hours for credit with the approval of the Dean, *but in no case shall the absolute maximum of* 19 *hours per week be exceeded.* In the majority of cases it is better for the student to put in four full years in meeting the requirements for a degree than to try to cover the course in a shorter period by taking additional hours.

Freshman-Sophomore Requirements

(a) Before the beginning of the Junior year the student must have completed sixty credit hours in basic courses, at least four or five hours of which must be taken from each of six of the first eight groups described below.

(b) Not more than twenty of these hours may be taken in one department.

(c) Freshmen and sophomores may not carry more than twelve hours in one group at a time.

	Semester	
Freshman Program	*I*	*II*
English 101	3	3
Foreign Language	4-3	4-3
Science (Biological or Physical)	4	4
Public Speaking (101-102)	1	1
R. O. T. C. (M. I. 101) or Physical Education (101)	1	1
Library Science (101)	1	..
Elect one of the following:		
*Elements of Social Science 101 3		
**Mathematics 101 3	3	3
Modern European History 101 3		
English Literature 102 3		
Total Hours	17	16

Sophomore Year

The curriculum of the Sophomore year has been arranged on the basis of a wider election of courses than has heretofore prevailed, but the selection of these courses must be strictly within the limits set forth above under Freshman-Sophomore requirements.

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*Prerequisite to the advanced courses in Economics, Government and Sociology.

**Prerequisite to Physics 101 and necessary for students pursuing advanced courses in Chemistry.

Specific Requirements for Graduation

A. Military Science 101-102, six hours.

B. Library Science 101, one hour.

C. Group Requirements:

I. *English*—The required course in Composition and Rhetoric and two hours of Public Speaking. In addition at least a one-semester course must be taken in some form of advanced composition or in literature.

II. *Foreign Languages and Literature*—If a student enters the University with but two units of language or less, he must pursue the study of foreign language through two years' courses or the equivalent. If three or more units of foreign language are offered for entrance he must continue the study of one foreign language through one year of his college course. Students who offer two units of a foreign language for entrance but whose preparation is not adequate for the second year of that language, may receive only half credit for the first year's course.

III. *History and the Social Sciences*—At least eight hours of history, economics, political science, or sociology, which shall include at least a one-semester course in history other than State history.

IV. *Mathematics and Natural Sciences*—A minimum requirement of eight hours of laboratory science with a minimum of twelve hours in this group.

V. *Education, Philosophy, and Psychology*—Six hours, with at least one course in Philosophy or Psychology.

Completion of Specific Requirements

It is strongly recommended that students complete as much of the above specifically prescribed work by the end of the Sophomore year as can be taken without interfering with the general Freshman-Sophomore requirements. All of the specific requirements for graduation must be met before a student may be admitted to full senior standing.

Major and Minor Requirements

For the purpose of choosing major and minor fields of study the courses of instruction open to students in this College are divided into eight groups. During this academic year minors only may be carried in Groups II. and VII.

I. Biological Sciences.
II. Classical Languages and Literature.
III. English Language and Literature.
IV. History and the Social Sciences.

V. Mathematics.
VI. Modern Languages and Literatures.
VII. Philosophy, Psychology and Education.
VIII. Physical Sciences.

(a) A major shall consist of not less than 20 and not more than 40 hours in a Department, and of not less than 30 and not more than 60 in the group including the major department.

(b) A minor shall consist of not less than 20 and of not more than 30 credit hours in a group related to the major group, not more than 25 of which shall be in any one department. Any hours taken in excess of this maximum in the minor group will not count as credit hours toward a degree. The minor must be approved by the major department.

(c) At the beginning of his Junior year each student (except those following prescribed curricula) must select a major in one of Groups I. to VIII., and before graduation must complete one major and one minor. In certain exceptional cases two minors may be allowed but in no case will any hours above the maximum of 30 in either minor be counted for credit toward a degree.

(d) The courses constituting a major must be chosen under the supervision of the faculty of the department in which the major work is done and must include a substantial number of courses not open to freshmen and sophomores.

Junior-Senior Requirements

The work in the Junior and Senior years is elective within the limits set by the Major and Minor requirements and the completion of the specific requirements as outlined above.

Students With Advanced Standing

Students entering the Junior year of the College of Arts and Sciences with advanced standing from other universities or from other colleges of this university will be required to meet the requirements respecting studies of the first two years only to the extent of their deficiencies in credits in Arts and Science subjects for full junior standing. Scholarship requirements as outlined above will apply to all courses offered for advanced standing.

Electives in Other Colleges and Schools

A limited number of courses may be counted for credit in the College of Arts and Sciences for work done in other colleges of the University.

The number of semester hours accepted from the various colleges is as follows:

College of Agriculture—Fifteen.
College of Education—Twenty.
College of Engineering—Fifteen.

College Home Economics—Twenty.
School of Law—Thirty in combined program.
School of Medicine—Thirty in combined program.
School of Nursing—Two years in combined program.

Student Responsibility

The individual student will be held responsible for the selection of his courses and major in conformity with the preceding regulations.

Advisers

Each new student may be assigned to a member of the faculty as his personal adviser who will assist him in the selection of his courses, the arrangement of his schedule, and any other matters on which he may need assistance or advice. The faculty adviser acts in this capacity as assistant and representative of the Dean, who is charged with the execution of all of the foregoing rules and regulations.

SPECIAL CURRICULA

Special curricula are provided in the Department of Chemistry, and for the Pre-Medical, Pre-Dental, and Pre-Law courses; and for the combined programs in Arts and Nursing and Arts and Law.

CHEMISTRY

At the close of this first quarter of the twentieth century we find chemistry not only taking its place as a recognized profession, but we find special acknowledgments by certain professions such as medicine, pharmacy, agriculture, etc., saying that the education received in a chemical training course affords a splendid preparation for these specific fields. Also one only has to view the responsible positions held by trained chemists during the past twenty-five years, to realize that chemistry is second to none in preparing men for callings in public and private life. This means that if a man spends four years in a chemical training course and finds that he does not wish to follow chemistry as a profession he has acquired a scientific knowledge and attitude of mind that are great assets to him in later life.

In order that the chemistry departments of the College of Arts and Sciences may best serve the various demands laid upon it by the University and State, it is divided into the following Divisions:

1. Inorganic
2 Organic
3. Analytical
4. Agricultural and Food
5. Physical
6. Industrial
7. State Control work of fertilizers, feed and lime analysis.

These divisions, except 7, furnish courses giving the basic principles of chemistry which serve as a necessary part of a general education and

which lay a foundation for scientific and technical work such as medicine, engineering, agriculture, dentistry, pharmacy, etc.

Besides serving in this fundamental way the Divisions furnish courses for the following careers:

1. *Industrial Chemist*—The State of Maryland, including the chemistry bureaus of Washington, is a great center of chemical industry. Rarely a week passes that some industry or bureau does not call for a man well trained in chemistry. Fundamental chemistry is becoming more and more to be realized as the basis of many industries. Many apparently efficient chemical industries have been greatly improved by the application of modern chemistry. Chemical corporations employ chemists to manage and develop units of their plants. See Curriculum II.

2. *Food and Agricultural Chemist*—There has never been a greater demand for food chemists than at the present time. Various bureaus and food laboratories are calling for men who have a good grounding in modern chemistry, including microscopy. Courses have been arranged to meet this demand. Curriculum III. may be so adjusted through its electives to fit a man for agricultural experiment stations, bureaus of soils, geological surveys, as well as for food laboratories.

3. *Teachers of Chemistry*—There is a growing need of suitably trained chemistry teachers. The American Chemical Society is now taking steps to encourage better teaching of chemistry in high schools, colleges and universities. The Chemistry Department feels that it is its duty to help carry this message to the teachers of Maryland by encouraging a better correlation between the high school chemistry and college chemistry and also by giving courses where students may find a good preparation for the profession of teaching chemistry. Curriculum I. as outlined not only offers the Science, but in co-operation with the College of Education, the students are able to take the educational subjects which are required to obtain the special teacher's diploma. To prepare for college teaching it is necessary to take graduate work leading, at least, to a master's degree.

4. *Research Chemist*—There is no line of work more important in the state than chemical research. During the war people had this brought home to them in a very definite way. Since the war, chemists have turned their attention to constructive chemical research work.

Perhaps the two most prominent pieces of constructive work are the eradicating of diseases of both plants and animals, and the increase of production in both farming and industry. The research at the University of Maryland is being fundamentally directed along these lines. Special work is being done by the department in eradicating tuberculosis.

In this state we find an increasing number of progressive corporations establishing chemical research laboratories. Their laboratories are run with the main purpose of improving old processes and devising new ones.

Highly trained chemists are sought to take charge of these laboratories. The chemistry department gives courses leading to higher degrees which fit men for these positions. (See Graduate School.)

Chemistry Curricula

The following curricula are given to aid students in the choice of subjects:

Freshman Year	Semester	
Required of All Chemistry Students	*I*	*II*
Composition and Rhetoric (Eng. 101)	3	3
Modern Language (French or German)	4	4
Mathematics (Math. 103)	5	5
General Chemistry (Chem. 101A or 101B)	4	4
*Drafting (Dr. 101)	1	1
*Library Methods (L. S. 101)	1	..
Basic R. O. T .C. (M. I. 101)	1	1

Sophomore Year	Semester	
Required of All Chemistry Students	*I*	*II*
Public Speaking (P. S. 101-102)	1	1
Physical Chemistry (Chem. 112)	2	2
Elementary Colloid Chemistry (Chem. 113)	..	2
Qualitative Analysis (Chem. 103)	2	..
Physics (Phys. 102)	5	5
Plain Analytics and Calculus (Math. 104, 105)	5	5
*Descriptive Geometry (Dr. 102)	2	2
*Psychology (Psych. 101)	2	2
Basic R. O. T. C. (M. I. 102)	2	2

1. GENERAL CHEMISTRY

Junior Year	Semester	
	I	*II*
Public Speaking (P. S. 109)	1	1
Advanced Composition and Rhetoric (Eng. 103)	2	2
Economics (Econ. 105)	3	3
Organic Chemistry (Chem. 110)	4	4
Quantitative Analysis (Chem. 107)	4	4
Chemical Calculations (Chem. 104)	1	1

Senior Year	Semester	
	I	*II*
Bacteriology (Bact. 101)	..	3
Physical Chemistry (Chem. 114 and 115)	4	4
Industrial Chemistry (Chem. 124)	3	3
Seminar (Chem. 223)	1	1
Electives	7	4

*Alternatives.

II. INDUSTRIAL CHEMISTRY

Junior Year	Semester	
	I	*II*
Engineering Geology (Engr. 102)	1	1
Engineering Mechanics (Mech. 101-102)	4	3
Prime Movers (Engr. 101)	2	2
Organic Chemistry (Chem. 110)	4	4
Analytical Chemistry (Chem. 107)	4	4
Chemical Calculations (Chem. 104)	1	1
Mineralogy and Assaying (Chem. 106)	2	2

Senior Year	Semester	
	I	*II*
Physical Chemistry (Chem. 114-115)	4	4
Industrial Chemistry (Chem. 124-125-126)	6	6
Eng. Jurisprudence (Engr. 103)	1	..
Technology of Fuels and Chemistry of Power Plants (Chem. 130)	2	..
Mech. Lab. (M. E. 107)	1	1
Thermodynamics (Chem. 211)	3	..
Seminar (Chem. 223)	1	1
Electives	..	6

III. AGRICULTURAL AND FOOD CHEMISTRY

Junior Year	Semester	
	I	*II*
Organic Chemistry (Chem. 110)	4	4
Food Inspection and Analysis (Chem. 120)	4	4
Advanced Composition and Rhetoric (Eng. 103)	2	2
Botany (Bot. 101)	4	..
Zoology (Zool. 101)	..	4
Economics	3	3
Public Speaking	1	1

Senior Year	Semester	
	I	*II*
Physical Chemistry	4	4
Physiological Chemistry (Chem. 119)	4	..
Food Chemistry (Chem. 124)	..	4
Feeds and Feeding (A. H. 102)	3	..
Dairy Products (D. H. 107)	..	3
Geology (Geol. 101), or Physics (Phys. 105)	3	..
Soils	..	3
Seminar (Chem. 223)	1	1

Co-operative Program in Chemistry

Arrangements have been made with certain industries so that students of high average ability, by utilizing their summers, may take a four-year course leading to a B. S. in chemistry, and at the same time earn suffi-

cient money to meet a large part of their expenses during these last two years. This plan is made possible by the following proportionment of time:

PROPORTIONMENT OF A STUDENT'S FOUR-YEAR COLLEGE CAREER

	First Year		First Summer		Second Year		Second Summer
	1st Sem.	2nd Sem.			1st Sem.	2nd Sem.	
Time	Sept. 15 to Feb. 1	Feb. 1 to June 15	June 15 to Aug. 15	Aug. 15 to Sept. 15	Sept. 15 to Feb. 1	Feb. 1 to June 15	June 15 to Sept. 15
Occupation	Study	Study	Study	Vacation	Study	Study	Work
Credit Hours	15	15	8		18	18	

	Third Year		Third Summer		Fourth Year	
	1st Sem.	2nd Sem.			1st Sem.	2nd Sem.
Time	Sept. 15 to Feb. 1	Feb. 1 to June 15	June 15 to Sept. 1	Sept. 1 to Sept 15	Sept. 15 to Feb. 1	Feb. 1 to June 15
Occupation	Study	Work	Study	Vacation	Work	Study
Credit Hours	18		10			18

It will be noted that the credit hours total 120, which fulfills the standard requirement in an Arts and Science College, and that this is done without taking more than 18 hours in any one semester. Since the co-operation with the industries does not begin until the second year most of the student's work in departments other than the chemistry department has been completed. On the other hand, if these subordinate courses have not been finished, no difficulty arises, for all shifts come at the usual break in the scholastic year (June 15th or Feb. 1st). It may be further noted that while a junior is studying, a senior is working, and vice versa. In this way the job is manned continuously, and each student gets one year of practical experience during his last two years in college.

Some advantages which the plan offers to the student are the following:

1. Utilizes his summers along lines which are in tune with his life work;
2. Gives him an outlook upon a practical field while studying, and helps him to see the need of acquiring chemical knowledge;

3. Brings him in contact with the practical men of the country and hence helps him to get a vision of the practical side of the science;
4. Acts as vocational guidance, i. e., the student knows at the end of four years whether or not he wishes to be a chemist;
5. He will usually be placed at the end of four years, for he has had a chance to show his worth to someone who needs a man;
6. He earns sufficient money to nearly pay his expenses during his last two years in college.

Each of the above curricula may be worked on this plan.

THE PRE-MEDICAL CURRICULUM

The pre-medical curriculum includes the subjects and hours prescribed by the Council on Medical Education of the American Medical Association, with additional subjects and hours, totaling 68 semester hours exclusive of military drill.

Preference will be given after 1924 to students entering the School of Medicine of the University of Maryland, who present the credits obtained by the successful completion of this curriculum or its equivalent of 68 hours.

In addition a combined seven-year curriculum is offered leading to the degrees of Bachelor of Science and Doctor of Medicine. The first three years are taken in residence at College Park and the last four years in Baltimore at the Medical School. The Pre-Medical Curriculum constitutes the first two years' work and a third year following the general outline given below, with the electives approved by the chairman of the pre-medical curriculum and the Dean of the College of Arts and Sciences, completes the studies at College Park.

Upon the successful completion of the first year in the Medical School and the recommendation of the Dean, the degree of Bachelor of Science may be conferred by the College of Arts and Sciences at College Park.

Students are urged to consider carefully the advantages this combination course offers over the minimum requirements of the two years. By completing three years the training may be greatly broadened by a wider latitude in the election of courses in the arts subjects.

Requirements for admission, see Section I, "Entrance".

Two Year Curriculum

	Semester	
Freshman Year	*I*	*II*
Composition and Rhetoric (Eng. 101)	3	3
Mathematics (Math. 101)	3	3
General Zoology (Zool. 102-103)	4	4
Elements of Social Science (Soc. Sci. 101)	3	3
General Chemistry (Chem. 101)	4	4
Basic R. O. T. C. (M. I. 101)	1	1
	18	18

Sophomore Year	*Semester I*	*II*
Physics (Phys. 101)	4	4
Organic Chemistry (Chem. 110)	4	4
Zoology (Zool. 108)	4	..
Public Speaking (P. S. 101-102)	1	2
*Elements of Psychology (Psych. 101)	..	3
French or German	4	4
Basic R. O. T. C. (M. I. 102)	2	2
	19	19

Combined Seven-Year Curriculum

Junior Year	*Semester I*	*II*
Advanced Composition (Eng. 103-104)	2	2
Embryology (Zool. 120)	..	4
Bacteriology (Bact. 101) either Semester	3	..
Physical Chemistry (Chem. 112)	3	3
Economics (Econ. 105) either Semester	3	..
Quantitative Analysis (Chem. 105)	..	3
Electives	4	3
	15	15

Senior Year

The curriculum of the first year of the medical school. The students may also elect the fourth year's work from advanced courses offered in the College of Arts and Sciences.

Pre-Dental Curriculum

Students taking one year of work in the College of Arts and Sciences may be admitted to the second year of the five-year course of the School of Dentistry, provided the following program of studies has been followed.

	Semester I	*II*
English 101	3	3
Zoology 101—Botany 101	4	4
Mathematics 101	3	3
Chemistry 101	4	4
Public Speaking 101-102	1	1
R. O. T. C. 101	1	1
	16	16

*Sophomore students who took Psychology 101 in the Freshman year in 1924-1925 will take Elements of Social Science 101 as Sophomores.

If a second year of Pre-Dental education is completed in the College of Arts and Sciences it should include the following courses: Physics, 101, and Organic Chemistry, Chem. 110.

Five-Year Combined Arts and Nursing Curriculum

The first two years of this course are taken in the College of Arts and Sciences at College Park. If students enter this combined program with advanced standing at least the second full year of the course must be completed in College Park.

The remaining three years are taken in the School of Nursing in Baltimore or in the Training School of Mercy Hospital, Baltimore. The degree of Bachelor of Science and the Diploma in Nursing are granted at the end of the five-year course. Fuller details regarding this course may be found in the section of the catalogue dealing with the School of Nursing.

Two-Year Program in the College of Arts and Sciences

Freshman Year	*Semester I*	*II*
English Composition and Rhetoric (Eng. 101)	3	3
Foreign Language	4-3	4-3
General Chemistry (Chem. 101)	4	4
Elements of Social Science (Soc. Sci. 101)	3	3
Elementary Foods (H. E. 101)	3	3
Physical Education	1	1
	18	18

Sophomore Year	*I*	*II*
English Literature or History	3	3
Organic and Food Chemistry	3	..
Nutrition	..	3
General Economics (Econ. 105)	3	..
Elements of Psychology (Psych. 101)	..	3
Gen. Zoology (Zool. 101)	4	.
Public Speaking (P. S. 101-102)	1	1
Physical Education (Phys. Ed. 102)	2	2
Electives	1	5
	17	17

Combined Program in Arts and Law

In September, 1926, the Law School of the University will require one year of academic credit for admission to the School, and in September, 1927, two years, or sixty-seven semester hours of college credit.

The University offers a combined program in Arts and Law which will be started in the fall of 1925, leading to the degrees of Bachelor of Arts and Bachelor of Laws.

Students pursuing this combined program in college and pre-legal subjects will spend the first three years in the College of Arts and Sciences at College Park. During this period they will complete the prescribed curriculum in pre-legal studies as outlined below, and must complete the Specific Requirements for graduation as indicated above. If students enter the combined program with advanced standing at least the third full year's work must be completed in residence at College Park.

Upon the successful completion of one year of full-time law courses in the School of Law in Baltimore or its equivalent, the degree of Bachelor of Arts will be awarded. The degree of Bachelor of Laws will be awarded upon the completion of the combined program.

Freshman Year	*Semester* I	*Semester* II
English, Composition and Rhetoric (Eng. 101)	3	3
Science or Mathematics	4-3	4-3
History 101	3	3
Elements of Social Science (Soc. Sci. 101)	3	3
Latin or Modern Language	4-3	4-3
R. O. T. C. (M. I. 101)	1	1
	18	18

Sophomore Year	*Semester* I	*Semester* II
English, Expository Writing (Eng. 106)	2	2
General Economics (Econ. 105)	3	..
U. S. Government (Pol. Sci. 102)	..	3
Public Speaking (P. S. 101-102)	1	1
Psychology (Psych. 101)	..	3
Economic History (Econ. 103-104)	3	3
R. O. T. C. (M. I. 102)	2	2
Extempore Speaking (P. S. 115)	1	..
*Electives	5	3
	17	17

Junior

Largely electives, including the completion of the Specific Requirements for Graduation as outlined on page 70.

Senior

First Year of Regular Law Course

Students who are unable to take the Combined Program in Arts and Law may fulfill the entrance requirements of the Law School by completing the first two years of Pre-Legal studies as outlined in the above combined course.

*Electives should be in English, History, Latin or Modern Languages, Economics or Political Science, or a part of the Specific Requirements for Graduation.

MISCELLANEOUS

MUSIC

The Department of Music serves students of the University of two general classes: those who make a specialty of the subject with a view to becoming musical artists or music teachers and those who pursue musical studies for purposes of enjoyment and general culture. For the former group extensive private instruction is provided with attention to technical development along particular lines; while as large provision as possible is made for all, in the various club activities and public lectures and recitals.

For courses in music see the Section III, Courses of Instruction.

Voice

Courses in voice culture are offered, covering a thorough and comprehensive study of tone production, based on the Italian method of singing.

The work required to develop a singer is begun with the most fundamental principles of correct breathing. Scale and arpeggio exercises, and all intervals, the portamento, legato, and staccato, and trill, and other embellishments to develop the technique of singing are studied through the medium of vocal exercises arranged by the greatest authorities on the voice, under the careful supervision of the instructor.

The study of songs and ballads is adapted to the ability and requirements of each singer, a thorough training being given in diction and phrasing, through the medium of sacred and secular ballads, leading to the oratorio and opera.

Opportunities are afforded all voice pupils who are capable to make public appearances in the regular pupils' recitals, as well as in the churches of the community.

Tuition

One lesson per week, term of eighteen weeks.....$24

The above price for lessons in voice are those offered to students of the University who are pursuing regular academic courses. Terms for private instruction outside the University may be secured from the instructor in voice.

Piano

Elementary piano courses. Work for beginners, based on the Leschetizky method.

Advanced piano courses. The college work in piano presupposes three years of preparatory study of the piano part or all of which may be taken at the University.

Lessons are taken twice a week. A four-year college course is as follows:

First Year—Technical studies based on the modern weight and rotary method: Heller Etudes, Sonatas of Haydn, Mozart, and Beethoven; selections from classic and modern composers.

Second Year——Bach Preludes; concertos by classic masters; Jensen Etudes; selections from classic, romantic, and modern composers.

Third Year—Leschetizky technic; Chopin Preludes and Waltzes; Bach Inventions; Mendelssohn Concertos, Beethoven Sonatas; selections from romantic and modern composers.

Fourth Year—Leschetizky technic; Chopin Etudes; Bach Well-Tempered Clavichord; sonatas and concertos by Greig, McDowell, Schutt, Beethoven, etc., concert pieces by modern and romantic composers.

Tuition

One lesson per week, term of eighteen weeks.....$24

Note.—Music tuitions are due in advance. Ten per cent. is added to all tuitions not paid in advance.

LIBRARY SCIENCE

A course in Library Methods is required of all students registered in the College of Arts and Sciences.

This course is intended to help students use the library with greater facility. Instruction will be given by practical work with the various catalogs, indexes and reference books. This course considers the general classification of the library according to the Dewey system. Representative works of each division are studied in combination with the use of the library catalogue. Attention is given to periodical literature, particularly that indexed in the Reader's Guide and in the Agricultural Index; and to various much used reference books which the student will find helpful throughout his college course.

COLLEGE OF EDUCATION

WILLARD S. SMALL, Dean.

The College of Education is an organization of the various activities of the University concerned with the preparation of individuals for positions in the educational profession. Its courses are planned to serve three classes of students: First, those preparing to teach agriculture, arts and science, home economics and industrial subjects in high schools; second, prospective principals of high schools, educational supervisors, county agents, home demonstrators, boys' and girls' club workers, and other educational specialists; third, those majoring in special fields who desire courses in education for their cultural and informational values.

Requirements for Admission

The requirements for admission to the College of Education are the same as for the admission to any other college or school of the University. See Section I, "Entrance".

Degrees

The degrees conferred upon students who have met the prescribed conditions for a degree in the College of Education are: Bachelor of Arts; Bachelor of Science. Upon completion of 132 credits in conformity with the requirements specified under "curricula" and in conformity with general requirements of the University, the appropriate degree will be conferred.

Teachers' Special Diploma

The degrees granted for work done in the College of Education indicate primarily the quantity of work completed. The Teachers' Special Diploma certifies to the professional character of such work. Teachers' special diplomas will be granted only to those who, besides qualifying for a degree, give promise of superior professional ability as evidenced by their personality, character, experience and success in supervised teaching.

Teachers' special diplomas are granted in Agricultural Education, Arts and Science Education, Home Economics Education and Industrial Education.

The recipient of a teachers' special diploma is eligible for certification by the State Superintendent of Schools without examination.

Departments

The College of Education is organized into two general divisions: General Education and Vocational Education. The College includes work in the following departments offering general and professional training

for teachers: Agricultural Education, Arts and Science Education, Home Economics Education and Industrial Education.

Curricula

Two types of curriculum are offered. These correspond with the two general divisions of the college organization: General Education and Vocational Education.

The first of these is designed to prepare teachers of the arts and sciences in the high schools and to prepare specialists for the profession of education. It therefore provides a wide range of electives. The basic requirements are fixed and definite, but the student may select from a number of subjects the major and minor subjects in which he expects to qualify for teaching. The student may secure the degree either of Bachelor of Arts or Bachelor of Science, depending upon his major content subject.*

The curricula in Vocational Education are designed for the definite purpose of preparing teachers and supervisors of agriculture, home economics, manual training and industrial subjects. They permit, therefore, comparatively little choice of subjects. As the University of Maryland is the institution designated by the State Board of Education for the training of teachers of vocational agriculture, home economics, and trades and industries under the provisions of the Smith-Hughes Vocational Educational Act, the curricula in this class have been organized to meet the objectives set up in the act, and in the interpretations of the Federal Board for Vocational Education and the State Board of Education. These curricula lead to the degree of Bachelor of Science.

It is advisable for students who intend to teach to register in the College of Education, in order that they may have continuously the counsel and guidance of the faculty which is directly responsible for their professional preparation. It is permissible, however, for a student to register in the college which in conjunction with the College of Education offers the majority of the courses he will pursue in satisfying the requirements of the curriculum he elects.

The Teachers' Special Diploma will be awarded only to the student who has fulfilled all of the requirements of the curriculum he elects.

As an integral part of every curriculum of the College of Education leading to a degree, a minimum of 20 credits in Education is required. The minimum includes the following prescribed subject units:

Public Education in the United States	2
Educational Hygiene	2†
Educational Psychology	3
Technic of Teaching	3
Special Methods and Supervised Teaching	6
Principles of Secondary Education	3

*For information in regard to majors and minors see page ——

†Except in the agricultural education cirriculum.

The special requirements peculiar to each curriculum in the College of Education are shown in the tabular statements of the curricula for Agricultural Education, Arts and Sciene Education and Home Economics Education.

Facilities

In addition to the general facilities offered by the University, by special arrangement with the county and state school authorities the high school located at Hyattsville within two miles of the Universiy provides opportunity for college credit work in supervised teaching. The observation work necessary for efficient teacher training is conducted in Washington and in nearby Maryland schools. The nearness of these schools and of the federal offices and libraries in Washington dealing with education provide unusual opportunities for contact with actual classroom situations and current administrative problems in education.

Special Courses

By special arrangement extension courses in education are offered evenings and Saturdays to teachers in service and to others who may desire to qualify for teaching in the schools of Maryland after having had such work. College credit may be granted for this work if taken in course. With present facilities only a limited amount of service of this kind can be undertaken.

As the need for evening classes in industrial and home economics education arises, special courses will be offered at centers throughout the State. The number and location of these centers will depend entirely upon the need and demand for such instruction. The courses will be organized on the short unit basis and will be maintained only so long as the demand justifies them. Upon the satisfactory completion of such curricula, students will be issued certificates stating the amount and character of work done.

In the summer session special courses are offered for the benefit of teachers in service and such individuals as may be able to qualify for teaching upon the completion of the work.

Professional Preparation for Prospective Teachers

The State Board of Education will certify to teach in the approved high schools of the State only such persons as have had satisfactory professional preparation. Students who desire to teach in approved high schools of the State must, therefore, secure this professional preparation.

The State Department of Education is stimulating and encouraging instruction in music and athletics in the high schools of the State. In the majority of these schools the instruction in these subjects will have to be carried on by teachers who teach other subjects as well. Training in either or both of these subjects will be valuable for prospective teachers.

All students wishing to prepare for teaching should consult the Dean of the College of Education regarding possible combinations and the arrangement of their work. At the time of matriculation each student is expected to make a provisional choice of the subjects which he desires to prepare to teach and to secure the advice and approval of the head of the department which offers these subjects. The previous training, the experience and the probable future needs of the student will govern the head of the department in his recommendations.

ARTS AND SCIENCE EDUCATION

Upon registration for this curriculum students should made a provisional selection of the subjects in which they expect to qualify for teaching, designating a major and a minor interest.

Students electing this curriculum may register either in the College of Education or the College of Arts and Sciences. In any case they will register with the College of Education for the special teacher's diploma.

The Teachers' Special Diploma will be awarded only to those students who have fulfilled all the requirements of this curriculum.

	Semester I	Semester II
Freshman Year		
Composition and Rhetoric (Eng. 101)	3	3
Educational Guidance (Ed. 100)	1	1
Reading and Speaking (P. S. 101-102)	1	1
Basic R. O. T. C. (M. I. 101) or Physical Education (Phys. Ed. 101)	1	1
Foreign Language (French, German, Spanish, Latin, Greek)	4-3	4-3
*Inorganic Chemistry (Chem. 101-A or 101-B) (One of these.)	4	4
Modern and Contemporary History (H. 101-102)	3	3
English Literature (Eng. 102)	3	3
Mathematics (Math. 101-102)	3	3

*This requirement may be modified in case of students who enter with two years of Chemistry in the high school. Such students, with the advice and consent of the Head of the Department of Chemistry, may elect advanced Chemistry; or with the consent of the Dean may substitute some other subject. Students purposing to major in Chemistry see page 72 for requirements.

	Semester I	Semester II
Sophomore Year		
Public Education in the United States (Ed. 101)	2	..
Educational Hygiene (Ed. 102)	..	2
Basic R. O. T. C. (M. I. 102) or Physical Education (Phy. Ed. 102)	2	2
Elements of Social Science (Soc. Sci. 101)	..	4
General Zoology (Zool. 101)	4	..
†Electives	10	10

	Semester I	Semester II
Junior Year		
Educational Psychology (Ed. 103)	3	..
Technic of Teaching (Ed. 104)	..	3
English (one three-hour course)	3	3
†Electives	10	10

	Semester I	Semester II
Senior Year		
Special Methods and Supervised Teaching (Ed. 110, 111, 112, 113, 114)	3	3
Principles of Secondary Education (Ed. 105)	..	3
†Electives	12	9

†The electives will be determined by the student's choice of major and minor subjects.

AGRICULTURAL EDUCATION

The objectives of the curriculum in Agricultural Education are the teaching of secondary vocational agriculture, the work of county agents, and allied lines of the rural educational service.

In addition to the regular entrance requirements of the University, involving graduation from a standard four-year high school, students electing the agricultural education curriculum must present evidence of having acquired adequate farm experience after reaching the age of fourteen years.

The electives allowed by this curriculum may be selected from any of the courses offered by the University for which the student has the necessary prerequisites. A student is expected, however, to confine his elections to subjects relating to farming and to teaching. Though a certain amount of specialization in a particular field of agriculture such as animal husbandry, agronomy, pomology, vegetable gardening, agricultural economics, or farm management, is encouraged, students should arrange their work so that approximately forty per cent. of their time will have been spent on technical agriculture, twenty-five per cent. on scientific subjects, twenty per cent. on subjects of a general educational character, and from twelve to fifteen per cent on subjects in professional education.

Students electing this curriculum may register either in the College of Education or the College of Agriculture. In either case they will register with the College of Education for the teacher's special diploma. The teacher's special diploma will be awarded only to those students who have fulfilled all of the requirements of this curriculum.

Freshman Year	*Semester* I	*Semester* II
Educational Guidance (Ed. 100)	1	1
Types and Breeds (A. H. 101)	3	..
Principles of Vegetable Culture (Hort. 111)	..	3
General Chemistry (Chem. 101-A or 101-B)	4	4
General Botany (Bot. 101)	4	..
General Zoology (Zool. 101)	..	4
Composition and Rhetoric (Eng. 101)	3	3
Basic R. O. T. C. (M. I. 101)	1	1

Sophomore Year	*Semester* I	*Semester* II
Public Education in the United States (Ed. 101)	2	..
Agricultural Chemistry (Chem. 116)	3	3
Field Crop Production (Agron. 101-102)	3	3
Geology (Geol. 101)	3	..
Principles of Soil Management (Soils 101)	..	3
Feeds and Feeding (A. H. 102)	3	..
Dairying (D. H. 101)	..	3
Elementary Pomology (Hort. 101)	3	..
Principles of Economics (Economics 105-A)	..	3
Basic R. O. T. C. (M. I. 102)	2	2

Junior Year	*Semester* I	*Semester* II
Educational Psychology (Ed. 103)	3	..
Technic of Teaching (Ed. 104)	..	3
Public Speaking (Courses to be arranged)	2	2
Farm Machinery (F. Mech. 101)	3	..
Farm Shop (F. Mech. 104)	1	..
Poultry (Poultry 101)	..	3
Genetics (Agron. 110)	3	..
Bacteriology (Bact. 101)	..	3
Agricultural Economics (A. E. 101)	3	..
Marketing Farm Products (A. E. 102)	..	3
Electives	2-5	2-5

Senior Year	*Semester* I	*Semester* II
Teaching Secondary Vocational Agriculture (Ag. Ed. 101)	4	4
Educat'l Leadership in Rural Communities (Ag. Ed. 102)	..	3
Teaching Farm Shop in Secondary Schools (Ag. Ed. 104)	1	..
Principles of Secondary Education (Ed. 105)	..	3
Farm Management (F. M. 102)	4	..
Agricultural Statistics (Agron. 122)	2	..
Expository Writing (Eng. 105)	2	2
Electives	3-6	3-6

HOME ECONOMICS EDUCATION

The curriculum in Home Economics Education is designed primarily to prepare teachers of secondary vocational home economics under the terms of the Smith-Hughes Act. The curriculum includes scientific and cultural courses, the essential courses in the several subdivisions of home economics and the professional courses concerned with the specific preparation for teaching. Whatever phase of the general field of home economics the student wishes to enter, the curriculum provides the fundamentals and also prepares her for teaching and administration in that special part of the field.

Practical experience in home making and in the commercial applications of home economics are valuable additions to the equipment of the teacher. It is advised, therefore, that the student be employed, in the summer of her junior year, in some form of commercial work. This may be in a department store, dress-making establishment, hotel, bakery, tea-room or other business enterprise vitally related to home economics. The practice house course in the junior year supplements home training and helps to develop managerial ability.

The special teacher's diploma will be awarded only to those students who have fulfilled all the requirements of this curriculum.

Freshman Year	*Semester* I	*Semester* II
Composition and Rhetoric (Eng. 101)	3	3
General Chemistry (Chem. 101)	4	4
*Language	4	4
Educational Guidance (Ed. 100)	1	1
Library Methods (L. S. 101)	1	..
Elements of Social Science (Soc. Sci. 101)	3	3
Physical Education (Phys. Ed. 101)	1	1

Sophomore Year	*Semester* I	*Semester* II
Chemistry of Foods	4	..
Zoology (Zool. 101)	..	4
Elementary Foods (H. E. 101)	3	3
Composition and Design (H. E. 118)	3	..
Costume Design (H. E. 120)	..	3
Textiles (H. E. 112-113)	2	1
Language or Social Science	3	3
Public Education in the United States (Ed. 101)	2	..
Educational Hygiene (Ed. 102)	..	2
Physical Education (Phys. Ed. 102)	2	2

Junior Year	*Semester* I	*Semester* II
General Bacteriology (Bact. 101)	..	3
Nutrition (H. E. 102-103)	3	3
Educational Psychology (Ed. 103)	3	..
Technique of Teaching (Ed. 104)	..	3
Marketing and Buying (H. E. 106)	3	..
Household Management and Mechanics of the House-Hold (H. E. 107)	3	..
Practice House (H. E. 108)	..	3
Education of Woman (H. E. Ed. 101-102)	2	2
*Electives	2	2

Senior Year	*Semester* I	*Semester* II
Teaching Vocational Home Economics; Methods and Practice (H. E. Ed. 103-104)	3	3
Child Care and Welfare (H. E. Ed. 105)	3	..
Principles of Secondary Education (Ed. 105)	..	3
Physics (Physics 103)	..	4
Home Architecture and Interior Decoration (H. E. 121).	3	..
Pattern Designing—Dressmaking (H. E. 112-113)	3	3
Electives	3	3

INDUSTRIAL EDUCATION

Three types of curricula are offered in Industrial Education, viz., a four-year curriculum, a two-year curiculum and a special curriculum. The first two are offered as resident work at the University and the third is offered at special centers in the State where occasion demands.

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*These electives may be chosen from any of the courses offered by the University for which the student has the necessary prerequisites.

Four-Year Curriculum in Industrial Education for Teachers of Related Subjects

In addition to the regular entrance requirement of the University, involving graduation from a standard four-year high school, students electing the four-year curriculum in industrial education must be willing to engage in the trades or industries during the three summer vacations.

The electives allowed by this curriculum may be chosen from any of the courses offered in the University for which the student has the necessary prerequisite.

Two-Year Curriculum in Industrial Education for Teachers of Related Subjects

This curriculum is designed for mature students who have had considerable experience in some trade or industry.

Applicants for admission to this curriculum must have as a minimum requirement an elementary school education or its equivalent and must be willing to engage in the trades and industries during the summer vacation.

The curriculum is prescribed but will be administered flexibly, in order that it may be adjusted to the needs of students who present satisfactory credits for certain of the required courses.

Special Courses for Teachers of Trades and Related Trade Subjects

To meet the needs for industrial teacher training in Baltimore and other industrial centers, two types of extension courses are offered; one for teachers of trade subjects, the other for teachers of related trade subjects.

Applicants for admission to these classes must have had considerable experience in the line of work they expect to teach, and must have, as a minimum requirement, an elementary school education or its equivalent. The credit allowed for these courses depends upon the amount and character of the work completed.

For teachers of trade subjects the term's work deals with the analysis and classification of trade knowledge for instructional purposes, the mechanics and technique of teaching, shop and class-room management, and the organization of industrial classes. The work for teachers of related subjects is similar to that described for teachers of trade subjects except that emphasis is placed upon the analysis of their specialties in relationship to the different trades with which they are articulated.

Special announcements of the extension courses will be issued in September, 1924, and may be obtained from the office of the Register either in Baltimore or College Park.

COLLEGE OF ENGINEERING

A. N. JOHNSON, Dean.

Whether a man follows engineering as his life's work or enters other fields it is well recognized that the training received in the engineering colleges of today affords a splendid preparation that fits him for many callings in public and private life outside of the engineering profession.

The College of Engineering, which includes the Departments of Civil, Electrical and Mechanical Engineering, has been reorganized. The general purpose has been to broaden the courses of instruction the better to prepare young men to enter the public service. The large public works program contemplated in practically every State in the Union makes urgent the demand for engineers trained for such work. The public service demands the electrical and mechanical as well as the civil engineer. Maryland needs such men to carry on her great highway work and large public undertakings contemplated in various cities and counties. Such training seems pre-eminently a function of the State's University.

The subject matter of the courses is not essentially different from that usually given, but the viewpoint of the student and the application of the principles are those of public service. In order to give the time necessary both to the technical subjects and to those of a more general character, a careful revision of all courses of study was made so that the time available in each semester may be used to the best advantage.

Beginning with the college year of 1921, the curriculum was arranged so as to prescribe the same courses of study for all freshmen and all sophomores, respectively, in the Engineering College. Among other advantages that accrue from such a change, is the very important one that a young man will not be called upon to decide the branch of engineering in which he will specialize until his junior year.

These changes necessitate a somewhat greater amount of preparation than formerly prescribed, and the hearty and sympathetic co-operation of the high schools of the state is asked that Maryland boys may be even better prepared for their university work to the end that they may be well qualified to enter on their life's work with the best possible university training.

Engineering research is recognized today as one of the most needed useful contributions that the engineering college can make to the state. Work of this character is under way at the University of Maryland, where, through co-operation with the U. S. Bureau of Public Roads and the Maryland State Roads Commission, highway research problems are being studied the solution of which will prove of utmost value to the people of the State. It is planned to develop as rapidly as possible this phase of the work which will have, aside from its great economic value

to the state, an important educational value due to the close contact the students will have with the live engineering problems of today.

The work brought prominently before all people the work done by the engineers and now a most important part is played by the profession in the reconstruction problems that confront, not alone the countries of Europe, but the United States as well. The opportunities for the well-trained engineer were never greater than at present. Great projects are under way and even grater contemplated, which the engineer of the future will be called upon, not only to build, but to initiate. He will require the broadest training he can secure. He must know more than merely the technique of his profession; he must be able to grasp the economic problems that underlie all great public works. It is towards such a training and understanding that the courses in the College of Engineering are being developed.

Admission Requirements

The requirements for admission to the College of Engineering are, in general, the same as elsewhere described for admission to the undergraduate departments of the University, except as to the requirements in mathematics. See Section I, "Entrance".

Bachelor Degrees in Engineering

Courses leading to the degree of Bachelor of Science are offered in Civil, Electrical and Mechanical Engineering, respectively.

Master of Science in Engineering

The degree of Master of Science in Engineering is given to those students registered in the Graduate School, who hold Bachelor Degrees in Engineering, prerequisite for which requires a similar amount of preparation and work as required for Bachelor Degrees in the Engineering College of the University of Maryland.

Candidates for the degree of Master of Science in Engineering are accepted in accordance with the procedure and requirements of the Graduate School, as will be found explained in the catalogue under the head of Graduate School.

Professional Degrees in Engineering

The degrees of Civil Engineer, Electrical Engineer or Mechanical Engineer will be granted only to graduates of the University who have obtained a bachelor's degree in engineering. The applicant must satisfy the following conditions:

1. He shall have engaged successfully in acceptable engineering work for three years.

2. His registration for a degree must be approved at least 12 months prior to the date at which the degree is sought. He shall present with his application a complete report of his engineering experience and an outline of his proposed thesis.

3. He shall present a satisfactory thesis on an approved subect.

4. He must be considered eligible by a committee composed of the Dean of the College of Engineering and the heads of the Departments of Civil, Electrical and Mechanical Engineering.

Equipment

The Engineering building is provided with lecture-rooms, recitation-rooms, drafting-rooms, laboratories and shops for all phases of engineering work.

Drafting-Rooms—The drafting-rooms are equipped for practical work. Engineering students must provide themselves with an approved drawing outfit, material and books, the cost of which during the freshman year amounts to about $40.00.

Electrical Engineering Laboratory—The equipment includes many of the various types of direct current and alternating current generators and motors, rotary converter, distribution transformers, control apparatus and the measuring instruments essential to practical electrical testing. For experimental work electrical power is obtained from engine driven units and a turbine generator; a storage battery is used for constant voltage testing purposes.

Instruments are available for measuring the candle power of lamps and for the determination of illumination intensities. The standardizing laboratory apparatus includes primary and secondary standards used in calibrating laboratory instruments.

The telephone laboratory is equipped with apparatus for experimental work on magneto and common battery systems. The radio apparatus is limited, at present, to receiving sets.

Mechanical Engineering Laboratory—The apparatus consists of Corliss and plain slide valve engines, steam turbine set, fans, pumps, indicators, gauges, feed water heaters, tachometers, injectors, flow meters, apparatus for determination of the B. T. U. in coal, gas and liquid fuels, pyrometers, draft gauges, planimeters, thermometers and other necessary apparatus and equipment for a mechanical laboratory.

Materials Laboratory—Apparatus and equipment are provided for making standard tests on various construction materials as steel, concrete, timber and brick.

Equipment includes two 100,000 pound universal testing machines, cement testing apparatus, extensometer and micrometer gauges, and other special devices for ascertaining the elastic properties of different materials.

Special apparatus which has been designed and made in the shops of the University is also made available for student work.

Highway Research Laboratory—Certain problems in highway research have been undertaken and are actively under way, being carried on in

co-operation with the U. S. Bureau of Public Roads and the State Roads Commission.

A study of the traffic over the Maryland State Highway system is in progress and a preliminary traffic map has already been prepared.

A special investigation into the elastic properties of concrete is well under way, this work directly co-ordinating with the general program of research problems undertaken by the U. S. Bureau of Public Roads. In connection with this study, there have been taken over sixteen hundred samples in the past two summers from the concrete roads of the State, these samples consisting of cores which were cut from the road by a special core drill apparatus mounted upon a specially equipped truck. The results that have been obtained from the testing of these concrete cores will be studied in connection with the laboratory investigations which are being made upon the fatigue of concrete. The fatigue of concrete is being studied by means of a specially devised machine which was designed and built at the University laboratory.

Machine Shops and Foundry—The machine shops and foundry are well lighted and fully equipped. Shops for wood working, metal, forge and foundry practice are provided for engineering students.

The wood-working shop has full equipment of hand and power machinery.

The machine shops are equipped with various types of lathes, planers, milling machines and drill presses.

The foundry is provided with an iron cupola, a brass furnace and coke oven.

The shop equipment not only furnishes practice, drill and instruction for students, but makes possible the complete production of special apparatus for conducting experimental and research work in engineering.

Surveying Equipment—Surveying equipment for plane, topographic and geodetic surveying is provided sufficient properly to equip several field parties. A wide variety of types of instruments is provided, including domestic as well as foreign makes.

Special Models and Specimens—A number of models illustrating various types of highway construction and highway bridges are available for students in this branch of engineering.

There has also been collected a wide variety of specimens of the more common minerals and rocks from various sections of the country, particularly from Maryland.

Library

Each department contains a well-selected library of books for reference and the standard engineering magazines.

The class work, particularly in the higher courses, requires that the students consult special books of reference and current technical literature.

Curricula

The normal curriculum of each department is outlined on the following pages. Students are also required to attend and take part in the meetings of the Engineering Society and Seminar and engineering lectures.

All members of the freshman engineering class are required to attend a series of twenty to twenty-five lectures a year, the speakers, for the most part, being other than engineers. Each student is required to hand in a very brief written summary of each lecture.

In addition to the requirements of the regular curricula, all students in the Engineering College are required, during each of the three summer vacations, to obtain employment in some line of commercial work, preferably that which relates to engineering. Unless the student can offer some adequate reason why he has not been so employed during at least two months of each of his summer vacation periods, it may be considered sufficient cause for withholding his degree.

The proximity of the University to Baltimore and Washington, and to other places where there are great industrial enterprises, offers an excellent opportunity for engineering students to observe what is being done in their chosen field. An instructor accompanies students on all trips of inspection.

The same program is required of all students in Engineering in the Freshman and Sophomore years.

Freshman Year	Semester I	Semester II
Composition and Rhetoric (Eng. 101)	3	3
Modern Language	4	4
Freshman Mathematics (Math. 103)	5	5
General Chemistry (Chem. 101)	4	4
Engineering Drafting (Dr. 101)	1	1
Shop and Forge Practice (Shop 101)	1	1
Basic R. O. T. C. (M. I. 101)	1	1
Engineering Lectures	..	..

Sophomore Year	Semester I	Semester II
Oral English (Pub. Sp. 105 and 106)	1	1
‡Modern Language (Adv. Course)	3	3
‡Modern and Contemporary History (Hist. 101 and 102)	3	3
Sophomore Mathematics (Math. 106)	5	5
Physics (Phys. 102)	5	5
Descriptive Geometry (Dr. 102)	2	2
Machine Shop Practice (Shop 102-103), M. & E.	1	2
Civil.	1	..
Basic R. O. T. C. (M. I. 102)	2	2
Plane Surveying (Surv. 101-102), M. & E.	1	..
Civil.	1	2
Engineering Lectures	..	..

‡Alternatives.

CIVIL ENGINEERING

Junior Year	Semester I	Semester II
*Political Economy (Econ. 108)	3	3
*Oral English (Pub. Sp. 109 and 110)	2	2
*Engineering Geology (Engr. 102)	1	1
*Engineering Mechanics (Mech. 101)	4	3
*Prime Movers (Engr. 101)	2	2
Design Steel Structures, Elements (C. E. 102)	..	5
*Materials of Engineering (Mech. 102)	..	2
Advanced Surveying (Surv. 103)	3	..
Railroads, Elements of (C. E. 101)	3	..
Engineering Lectures	..	..

CIVIL ENGINEERING

Senior Year	Semester I	Semester II
*Oral English (Pub. Sp. 111 and 112)	1	1
*Engineering Jurisprudence (Engr. 103)	1	..
*Public Utilities (Engr. 104)	..	1
*Engineering Chemistry (Chem. 127)	1	1
Highways (C. E. 103)	4	4
Design-Masonry Structures (C. E. 104)	4	4
Design-Steel Structures (C. E. 105)	3	3
Sanitation (C. E. 106)	3	3
‡Railroads (C. E. 107)	1	1
‡Sanitary Science (Public Health) (C. E. 108)	1	1
‡Drainage and Irrigation (C. E. 109)	1	1
Engineering Lectures	..	..

ELECTRICAL ENGINEERING

Junior Year	Semester I	Semester II
*Political Economy (Econ. 108)	3	3
*Oral English (Pub. Sp. 109 and 110)	2	2
*Engineering Geology (Engr. 102)	1	1
*Engineering Mechanics (Mech. 101)	4	3
*Materials of Engineering (Mech. 102)	..	2
Design-Machine, Elements (M. E. 101)	1	..
Direct Currents (E. E. 101)	5	5
*Prime Movers (Engr. 101)	2	2
Engineering Lectures	..	..

*Required of all engineering students.

‡Alternatives.

Juniors and senior engineers with requisite standing may elect extra hours not to exceed three hours per semester.

Senior Year	*Semester* I	*Semester* II
*Oral English (Pub. Sp. 111 and 112)	1	1
*Engineering Jurisprudence (Engr. 103)	1	..
*Public Utilities (Engr. 104)	..	1
*Engineering Chemistry (Chem. 127)	1	1
Alternating Currents (E. E. 102)	5	5
Design-Electric Machine (E. E. 103)	1	2
Electric Railways (E. E. 104)	2	..
Telephones and Telegraphs (E. E. 105)	..	4
Radio Telephony and Telegraphy (E. E. 106)	4	..
Illumination (E. E. 107)	..	2
Electric Power Transmission (E. E. 108)	..	2
Thermodynamics (Mech. 104)	3	..
Engineering Lectures	..	..

MECHANICAL ENGINEERING

Junior Year	*Semester* I	*Semester* II
*Political Economy (Econ. 108)	3	3
*Oral English (Pub. Sp. 109 and 110)	2	2
*Engineering Geology (Engr. 102)	1	1
*Engineering Mechanics (Mech. 101)	4	3
*Materials of Engineering (Mech. 102)	..	2
Foundry Practice (Shop 104)	..	1
Advanced Course (M. I. 103)	..	..
Design-Machine, Elements (M. E. 102)	..	5
*Prime Movers (Engr. 101)	3	1
Kinematics (Mech. 103)	5	..
Engineering Lectures	..	..

Senior Year	*Semester* I	*Semester* II
*Oral English (Pub. Sp. 111 and 112)	1	1
*Engineering Jurisprudence (Engr. 103)	1	..
*Public Utilities (Engr .104)	..	1
*Engineering Chemistry (Chem. 127)	1	1
Design-Prime Movers (M. E. 103)	3	3
Design-Power Plants (M. E. 104)	..	3
Design-Pumping Machinery (M. E. 105)	3	..
Thermodynamics (Mech. 104-105)	3	3
Sanitation (C. E. 106)	3	3
Engineering Finance (M. E. 106)	..	2
Mechanical Laboratory (M. E. 107)	1	1
Heating and Ventilation (M. E. 108)	2	..
Engineering Lectures	..	..

*Required of all Engineering Students.

Junior and senior engineers with requisite standing may elect extra hours not to exceed three hours per semester.

COLLEGE OF HOME ECONOMICS

M. MARIE MOUNT, Dean.

The Home Economics subjects are planned to meet the needs of three classes of students: (1) those who desire a general knowledge of the facts and principles of Home Economics without thought of specialization; (2) those students who wish to make a specialty of Home Economics for the purpose of teaching it; (3) those who are interested in certain phases of Home Economics which may fit them to do commercial work as dietitians, restaurant and cafeteria managers, textiles specialists, clothing designers, buyers of clothing in department stores, etc.

Departments

For administrative purposes the College of Home Economics is organized into the Departments of Foods and Cookery, Textiles and Clothing and Home and Institutional Management.

Equipment

In addition to the usual class room and laboratory facilities, the college maintains a newly built and equipped practice house in which the students will keep house for a period of six to eight weeks during either their junior or senior year.

Degree

The degree of Bachelor of Science is conferred for the satisfactory completion of four years of prescribed courses, of 134 semester hours.

In accordance with the University policy, not less than three-fourths of the credits for graduation must be earned with grades of A, B or C.

Prescribed Curricula

All students registered in the College of Home Economics are required to take the same work during the first two years. At the beginning of the third year a student may elect a course in General Home Economics or elect to specialize in the departments of Textiles and Clothing, Foods, or Home and Institutional Management. A student who wishes to teach Home Economics will register in Home Economics Education, in the College of Education (see Home Economics Education) at the beginning of the Junior Year.

Following are outlines of the General Home Economics, the Textiles and Clothing, the Foods and the Institutional Management Curricula.

GENERAL HOME ECONOMICS

Freshman Year	Semester I	Semester II
Composition and Rhetoric (Eng. 101)	3	3
General Chemistry (Chem. 101)	4	4
Language	4	4
Physical Education (Phys. Ed. 101)	1	1
Library Methods (L. S. 101)	1	..
Elements of Social Science (Soc. Sc. 101)	3	3
Educational Guidance (Ed. 100)	1	1
Total	17	16

Sophomore Year	Semester I	Semester II
Chemistry of Foods	4	..
General Zoology (Zool. 101)	..	4
Elementary Foods (H. E. 101)	3	3
Composition and Design (H. E. 117)	3	..
Costume Design (H. E. 120)	..	3
Textiles (H. E. 112-113)	2	1
Language or Social Science	3	3
Public Education in the United States (Ed. 101)	2	..
Educational Hygiene (Ed. 102)	..	2
Physical Education (Phys. Ed. 102)	2	2
Total	19	18

Junior Year	Semester I	Semester II
General Bacteriology (Bact. 101)	..	3
Physcis (Physics. 103)	..	4
Nutrition (H. E. 102-103)	3	3
Marketing and Buying (H. E. 106)	3	..
Home Management and Mechanics of the Household (H. E. 107)	3	..
Practice House (H. E. 108); Juniors or Seniors	..	3
Pattern Designing and Dressmaking (H. E. 114)	3	3
*Electives	4	..
Total	16	16

Senior Year	Semester I	Semester II
Home Architecture and Interior Decoration (H. E. 121)	3	..
Child Care (H. E. Ed. 102)	3	..
*Electives	11	17
Total	17	17

*Electives may be chosen from any of the courses offered by the University for which the student has the necessary prerequisites.

FOODS CURRICULUM

Junior Year	Semester I	Semester II
General Bacteriology (Bact. 101)	..	3
Physics (Physics 103)	..	4
Nutrition (H. E. 102-103)	3	3
Marketing and Buying (H. E. 106)	3	..
Home Management and Mechanics of the Household (H. E. 107)	3	..
Practice House (H. E. 108)	..	3
Electives	7	3
Total	16	16

Senior Year	Semester I	Semester II
Home Architecture and Interior Decoration (H. E. 121).	3	..
Child Care and Welfare (H. E. Ed. 102)	3	..
Preservation and Demonstration of Foods (H. E. 104)	..	3
Advanced Foods (H. E. 105)	8	14
Electives	17	17
Total		

TEXTILE AND CLOTHING CURRICULUM

Junior Year	Semester I	Semester II
General Bacteriology (Bact. 101)	..	3
Physics (Physics 103)	..	4
Nutrition (H. E. 102-103)	3	..
Marketing and Buying (H. E. 106)	3	..
Home Management and Mechanics of the Household (H. E. 107)	..	3
Practice House (H. E. 108)	3	3
Pattern Designing and Dressmaking (H. E. 114)	4-5	4
Electives	16-17	17
Total		

TEXTILES AND CLOTHING CURRICULUM

Senior Year	Semester I	Semester II
Home Architecture and Interior Decoration (H. E. 121)	3	..
Chemistry of Textiles	..	2
Advanced Clothing (H. E. 115)	2	..
Art and Handicraft (H. E. 122-123)	..	2
Millinery (H. E. 116)	2	..
Electives	9	12
Total	16	16

INSTITUTIONAL MANAGEMENT CURRICULUM

Junior Year	*Semester* I	*II*
General Bacteriology (Bact. 101)	..	3
Physics (Physics 103)	..	3
Nutrition (H. E. 102-103)	3	3
Marketing and Buying (H. E. 106)	3	..
Home Management and Mechanics of the Household (H. E. 107)	3	..
Practice House (H. E. 108)	..	3
Institutional Management (H. E. 109)	3	3
Electives	4	1
Total	16	16

Senior Year	*Semester* I	*II*
Home Architecture and Interior Decoration (H. E. 121).	3	..
Child Care and Welfare (H. E. Ed. 102)	3	..
Advanced Foods (H. E. 105)	..	3
Advanced Institutional Management (H. E. 110-111)	3	3
Electives	8	11
Total	17	17

THE GRADUATE SCHOOL

C. O. APPLEMAN, *Dean*

Graduate work is offered, under the supervision of the Dean of the Graduate School by competent members of the various faculties of instruction and research. These constitute the Faculty of the Graduate School.

The general administrative functions of the faculty are delegated to the Dean and Secretary of the School and a Graduate Council.

Work in accredited research laboratories of the U. S. Department of Agriculture and other local national research agencies under competent supervision is accepted, when previously arranged, as work in residence for part of the requirement. These laboratories are located in easy reach of the University.

Admission to the Graduate School

Graduates of colleges and universities of good standing are admitted to the Graduate School. Before entering upon graduate work all applicants must present evidence that they are qualified by their previous work to pursue with profit the graduate courses desired. Application blanks for admission to the Graduate School are obtained from the office of the Dean. After approval of the application, a matriculation card, signed by the Dean, is issued to the student. This card permits the student to register in the Graduate School. After payment of the fees the matriculation card is stamped and returned to the student. It is the student's certificate of membership in the Graduate School and may be called for at any succeeding registration.

All applicants for graduate study in the University must matriculate in the Graduate School even though they are not candidates for higher degrees. This includes the members of the Summer Session.

Admission to the Graduate School does not necessarily imply admission to candidacy for an advanced degree.

Registration

All students pursuing graduate work in the University, even though they are not candidates for higher degrees, are required to register in the office of the Dean of the Graduate School at the beginning of each semester. Students taking graduate work in the summer school are also required to register in the Graduate School at the beginning of each session. The program of work for the semester or summer session is entered upon three course cards which are first signed by the professor in charge of the student's major subject and then by the Dean of the

Graduate School. Two cards are retained in the office of the Graduate School. One is filed for record and the other returned to the professor in charge of the student's major subject. The student takes the third card and, in case of new students, also the matriculation card, to the Registrar's office, where a charge slip for the fee is issued. The charge slip, together with the course card, are presented at the office of the Financial Secretary for adjustment of fees. After certification by the Financial Secretary, class cards are issued by the Registrar. Students will not be admitted to gaduate courses without class cards. Course cards may be obtained at the Registrar's office or from the secretary in the Dean's office. The heads of departments usually keep a supply of these cards in their office.

Credits

Classification in courses carrying full graduate credit is ordinarily limited to a maximum of thirty credit hours for the year. Exceptions to this rule must have the approval of the Dean and will only be allowed when the student has made a grade of "B" or better in all of the courses of the previous semester. No exception to the rule will be made in case of students holding $500 fellowships on a nine months basis. On the recommendation of the student's advisor, these fellows may carry more than fifteen credits for one semester of the year, if the normal load for the other semester is correspondingly reduced. Students holding graduate assistantships are usually limited to eight credit hours per semester. One or two extra credits may be allowed if four or five of the total constitute Seminar and Research work.

Admission to Candidacy for Advanced Degrees

Applications for admission to candidacy for either the Master's or the Doctor's degrees are made on application blanks, which are obtained at the office of the Dean of the Graduate School. These are filled out in duplicate and first approved by the professor in charge of the major subject, after consultation with the professors in charge of the minor subjects, before they are acted upon by the Graduate Council. If not already on file in the Dean's office, the application must be accompanied by an official transcript of the student's undergraduate record, and a statement of the graduate courses which the student has completed at other institutions. This statement must be issued by the Dean, Registrar, or other officer of the Graduate School in which the work was done.

A student making application for admission to candidacy for the degree of Doctor of Philosophy must also obtain from the Head of the Modern Language department, a statement that he possesses a reading knowledge of French and German.

The thesis subject for either the Master's or Doctor's degree is filed with the application.

Each candidate for the Master's degree is required to make application for admission to candidacy not later than the first week of the

second semester of the academic year in which the degree is expected to be granted, but not until at least the equivalent of one semester's work has been completed.

Candidates for the Doctor's degree must be admitted to candidacy at a date not later than October first of the academic year in which the degree is sought.

The admission of a student to candidacy in no case assures the candidate of a degree, but merely indicates that he has fulfilled all of the preliminary requirements and, in the judgment of his professors and the Graduate Council, possesses the ability to continue the type of work required for the degree sought.

Requirements for the Master's Degree

The degree of Master of Science, Master of Arts or Master of Science in Engineering, will be conferred upon resident gaduates who meet the following requirements:

1. The prospective candidate is required to make application for admission to candidacy as prescribed under that heading.

2. The candidate must have received the Bachelor's degree from a college or university of sufficiently high standing and must have the necessary prerequisites for the field of advanced work chosen.

3. During a period of at least one academic year, the student must pursue a course of approved graduate study. Such a course is equivalent to 30 semester credits, including a thesis approved by a committee of the faculty. From 10 to 12 credits must lie outside the major subject and form a coherent group of courses intended to supplement and support the major work. At least 18 credits, including the thesis credits, must be devoted to the major subject. The number of major credits allowed for thesis work will range from 6 to 10, depeding upon the amount of work done and upon the course requirements in the major subject. The maximum credit for the one hour per week seminar courses is limited to four semester hours in the major subject and to two semester hours in the minor subjects. Graduate students must elect courses designated in the catalogue "For Graduates" or "For Advanced Undergraduates and Graduates." In special cases a student may, with the approval of the professor in charge of the major subject and the Dean, elect for graduate credit one or two courses not listed for graduates. For such courses, only partial graduate credit will be allowed or extra work will be required for full graduate credit.

4. The thesis required for the Master's degree should be typewritten on a good quality of paper 11x8½ inches in size and one copy bound in a special cover, obtained at the book store. This copy must be filed in the office of the Graduate School not later than two weeks before commencement.

5. The candidate must pass a final oral examination on all graduate work, including the thesis.

Doctor of Philosophy

1. As prerequisites for admission to candidacy for the Doctor's degree the candidate must be a graduate of a standard college, must have a reading knowledge of French and German, and the necessry basic training in the chosen field for advanced work.

2. Three years of graduate study will usually be required. The first two of these years may be spent in other institutions offering standard graduate work. On a part-time basis the time needed will be correspondingly increased. The degree is not given merely as a certificate of residence and work, but is granted only upon sufficient evidence of high attainments in scholarships and ability to carry on independent research in the special field in which the major work is done.

3. The candidate must select a major and one or two closely related minor subjects, constituting a single field of research.

The candidate must present a dissertation within the field of research selected. This must be in the hands of the Dean of the Graduate School in printed or typewritten form at least two weeks before the time at which degrees are granted.

5. The candidate must pass a final oral examination in the major and minor subjects. The examination will be given by a committee appointed by the Dean.

Advanced Professional Degrees in Engineering

The degrees of Civil Engineer, Electrical Engineer or Mechanical Engineer will be granted only to graduates of this University who have obtained a Bachelor's degree in engineering. The applicant must satisfy the following conditions:

1. He shall have been engaged successfully in acceptable engineerng work for three years.

2. His registration for a degree must be approved at least 12 months prior to the date at which the degree is sought. He shall present with his application a complete report of his engineering experience and an outline of his proposed thesis.

3. He shall present a satisfactory thesis on an approved subject.

4. He must be considered eligible by a committee composed of the Dean of the College of Engineering and the heads of the Departments of Civil, Electrical and Mechanical Engineering.

Graduate Fees

Each graduate student is subject to a matriculation fee of $10.00, a fixed charge of $1.50 per semester credit and a diploma fee of $10.00.

Graduate Work in the Summer

Work done in the Summer Session of the University under the rules and regulations of the Graduate School may be counted as residence toward a graduate degree.

Students taking their major work in the field of Education may satisfy the requirements for the Master's degree by attending the Summer School for four summers and submitting a satisfactory thesis.

Fellowships and Graduate Assistantships

A number of fellowships and graduate assistantships have been established by the University. They are open to graduates of standard colleges and universities. All applications for both fellowships and graduate assistantships should be filed with the Dean of the Graduate School not later than May 15 of each year. Blanks for this purpose may be obtained from the office of the Graduate School. Applications must be accompanied by sufficient evidence of necessary training and ability to pursue with profit the graduate work desired. Such evidence will include testimonials from instructors and an official transcript of the undergraduate work.

The fellowships are worth $500 and it is possible to complete the requirements for the Master's degree in one academic year. In certain cases fellows may be required to spend two or three summer months in addition to the nine months of the college year. Each fellow is expected to give a limited portion of his time to instruction or perform equivalent prescribed duties for his major department.

The stipend attached to the graduate assistantships is $1,000 per annum and the appointments are made for twelve months with one month's vacation. The minimum time required for the Master's degree is two years, since one-half of the assistant's time is devoted to instruction or research. Several $1,000 research assistantships are offered by the Experiment Station and the service required is in connection with research projects. Graduate students holding appointments as fellows or graduate assistants are exempt from all fees except the diploma fee and laboratory fees in certain minor courses.

SUMMER SCHOOL

WILLARD S. SMALL, Director.

A summer session of six weeks is conducted at College Park. The program is designed to serve the needs of three classes of students; teachers and supervisors of the several classes of school work—elementary, secondary and vocational; special students, as farmer, breeders, dairymen, home makers, chemists, public speakers, graduate students; and students who are candidates for degrees in agriculture, arts and science, education, engineering and home economics.

Terms of Admission

Teachers and special students not seeking a degree are admitted without examination to the courses of the summer session for which they are qualified. All such selection of courses must be approved by the Director of the Summer School.

The admission requirements for those who desire to become candidates for degrees are the same as for any other session of the University. Before registering, a candidate for a degree will be required to consult the Dean of the School in which he wishes to secure the degree.

Credits and Certificates

The semester hour is the unit of credit as in other sessions of the University. During the summer session a lecture course meeting five times a week for six weeks requiring the standard amount of outside work, is given a weight of two semester hours.

Educational courses satisfactorily completed will be credited by the State Superintendent of Schools towards meeting the minimum requirements of professional preparation as follows:

(1) For teaching in the elementary schools of the State, including renewal of certificates and advancing the grade of certificates.

(2) For teaching in high schools of the State and for renewal of high school certificates.

(3) For teachers of vocational agriculture and home economics and for renewal of vocational teachers' certificates.

(4) For high school principalships.

(5) For supervisorships.

Summer Graduate Work

Special arrangements have been made for persons wishing to do graduate work in summer. Teachers and other graduate students working for a degree on the summer plan must meet the same requirements and proceed in the same way as do students enrolled in the other sessions of the University.

For detailed information in regard to the summer session consult the special summer school announcement issued annually in April.

DEPARTMENT OF MILITARY SCIENCE AND TACTICS

GEO. T. EVERETT, Major U. S. Army, Professor.

RESERVE OFFICERS' TRAINING CORPS

The work in this department is based upon the provisions of Special Regulations, No. 44, War Department, 1921.

Authorization

An infantry unit of the Senior Division of the Reserve Officers' Training Corps was established at the University under the provisions of the Act of Congress of June 3, 1916, as amended.

Object

The primary object of the Reserve Officers' Training Corps is to provide systematic military training at civil educational institutions for the purpose of qualifying selected students of such institutions as reserve officers in the military forces of the United States. It is intended to attain this object during the time the students are pursuing their general or professional studies with the least practical interference with their civil careers, by employing methods designed to fit men, physically, mentally and morally for pursuits of peace as well as pursuits of war. It is believed that such military training will aid greatly in the development of better citizens.

Required to Take Instruction

All male students, if citizens of the United States, whose bodily condition indicates that they are physically fit to perform military duty or will be upon arrival at military age, whether pursuing a four-year or a two-year course of study, are required to take for a period of two years, as a prerequisite to graduation, the military training required by the War Department.

All male students, if citizens of the United States, whose bodily condition indicates that they are not physically fit to perform military duty and will not be upon arrival at military age, whether pursuing a four-year or a two-year course of study, are required to take for a period of two years, as a prerequisite to graduation, the equivalent of the military training required by the War Department, substituting for that part of the training which might be physically harmful, such military instruction as the P. M. S. & T. in consultation with the University Physician may determine as advisable and expedient.

Advanced Work

Students who complete the Basic Course satisfactorily and who are recommended by the Professor of Military Science and Tactics, and whose application is approved by the President, may continue their military training for a period of two years in the Advanced Course.

Time Allotted

For first and second year, basic course, three periods a week of not less than one hour each are devoted to this work, of which at least one hour is utilized for theoretical instruction.

For third and fourth years, advanced courses, elective, five periods a week of not less than one hour each are devoted to this work, of which at least three periods are utilized for theoretical instruction.

Physical Training

Physical training forms an important part in military instruction, and it is the policy of the Military Department to encourage and support the physical training given by civilian teachers, thus co-operating in an effort to promote a vigorous manhood.

Physical Examination

All members of the Reserve Officers' Training Corps are required to be examined physically at least once after entering the University.

Uniforms

Members of the Reserve Officers' Training Corps must appear in proper uniforms at all military formations and at other specified times.

Uniforms, or commutation in lieu of uniforms for the Reserve Officers' Training Corps, will be furnished free by the Government. The uniforms are the regulation uniforms of the United States Army, with certain distinguishing features, or if commutation of uniforms is furnished, then such uniform as may be adopted by the University. Such uniforms must be kept in good condition by the student. They are the property of the Government and, though intended primarily for use in connection with military instruction, may be worn at any other time unless the regulations governing their use are violated. The uniform cannot be worn in part. Uniforms which are furnished by the Government will be returned to the Military Department at the end of the year or before, if the student leaves the University. In case commutation of uniforms is furnished, the uniform becomes the property of the students upon completion of two years' work

Commutation

Those students who elect the advanced course and who have signed the contract with the Government to continue in the Reserve Officers' Training Corps for the two remaining years of the advanced course are entitled to commutation of subsistence from and including the date of contract until they complete the course at the institution.

Summer Camps

An important and excellent feature of the Reserve Officers' Training Corps is the summer camp. In specially selected parts of the country camps are held for a period not exceeding six weeks for students who are members of the Reserve Officers' Training Corps. These camps are under the strict supervision of army officers and are intended primarily to give a thorough and comprehensive practical course of instruction in the different arms of the service.

Parents may feel assured that their sons are carefully watched and safeguarded. Wholesome surroundings and associates, work and healthy recreation are the keynote to contentment. Social life is not neglected and the morale branch exercises strict censorship over all social functions.

The attendance at summer camps is compulsory only for those students who are taking the advanced course. The War Department recommends that as many basic students as possible attend the summer camps.

The students who attend the summer camps are under no expense. The Government furnishes transportation from the institution to the camp and from the camp to the institution, or to the student's home, unless the mileage is greater than that from the camp to the institution. In this case, the amount of mileage from the camp to the institution is allowed the student. Quarters and food are furnished. The Advanced Course men, in addition to receiving quarters and food, are paid seventy cents ($0.70) for each day spent in camp.

Commissions

(a) Each year upon completion of the Advanced Course, students qualified for commissions in the Reserve Officers' Corps will be selected by the head of the institution and the professor of Military Science and Tactics.

(b) The number to be selected from each institution and for each arm of the service will be determined by the War Department.

Credits

Military instruction at this University is on a par with other university work and the requirements of this department as to proficiency the same as with other departments.

Students who have completed satisfactorily the prescribed training with a unit of the S. A. T. C. may be credited with one year of the Basic Course prescribed for the R. O. T. C., and those students who have received military training at any educational institution under the direction of an army officer detailed as professor of military science and tactics may receive such credit as the professor of military science and tactics and the President may jointly determine.

DEPARTMENT OF PHYSICAL EDUCATION AND RECREATION

H. C. Byrd, Director

The Department of Physical Education and Recreation has been organized to control all physical training, recreation and intramural and intercollegiate athletics. All work is closely co-ordinated and the ideal is to see that every man in the institution gets opportunities to take part in competitive sports. The plan under which the department is to operate may be summed up as follows:

1. A series of exercises arranged for every student in the institution and compulsory for all, the exercises to be based on mass exercises common in Germany and Scandinavian countries. Neither the German nor Scandinavian system is to be used in its entirety, but a combination of the heavy gymnastic drills of the former with the lighter squad drills of the latter. All students will be given physical examination and placed in various classes according to their individual physical needs. Students will receive different kinds of work and be encouraged to take part in those games which provide the exercise of which they are most in need.

2. A general system of intramural athletics is carried out under a regular schedule with teams representing different units of the University. All students take part in one or more of these branches of sport and the University encourages enough sports to give each an opporunity. It is the aim of each class to have its own wrestling team, basket-ball team, baseball team, volley-ball team, track team, and so on for just as many teams as there are students to fill the positions. The games between these teams are carried out with regularity of schedule and supervision. Besides these, there are general competitions such as cross-country runs and interclass track meets in which representatives of all classes may compete at the same time. A regular playground is in process of construction in which will be available tennis courts, volley-ball courts, tether ball pools, stakes for pitching quoits, etc.

3. All physical training of the students, including mass exercises, intramural sports, intercollegiate competitions, and miltary training, are a part of the general education system of the University.

For the present practically all general training, such as comes under the head of gymnastics and squad exercises, is conducted under the direction of the Military Department.

The new gymnasium and stadium add greatly to the facilities for general athletics and physical education. Combined they give the University one of the most modern plants in the South.

SCHOOL OF BUSINESS ADMINISTRATION

HERBERT M. DIAMOND, Dean

ADMINISTRATIVE COUNCIL

ALBERT F. WOODS, A.M., D. Agr. LL.D, President of the University.
FREDERIC E. LEE, Ph.D., Executive Dean of the University.
HERBERT M. DIAMOND, Ph.D., Dean and Professor of Economics.
WILLIAM H. W. STEVENS, Ph.D., Professor of Finance.
LESLIE W. BAKER, M.C.S., C.P.A., Professor of Accounting.
PETER PECK, B.A., L.L.B., Professor of Business Law.
W. M. STEVENS, B.S., M.B.A., Assistant Professor of Business Administration.
SYDNEY S. HANDY, M.A., Assistant Professor of English.
W. G. FRIEDERICK, M.A., Assistant Professor of Modern Languages.
JOHN J. DAVIS, M.A., Assistant Professor of Modern Languages.
A. W. RICHESON, B.S., M.A., Instructor in Mathematics and Assistant to the Dean.
G. F. CADISCH, M.B.A., Instructor in Banking and Investments and Assistant to the Dean.

GENERAL STATEMENT

In response to repeated requests from business men and prospective students in Baltimore, the University of Maryland opened in that city in the fall of 1921 Extension Courses in Commerce to provide systematic instruction in those subjects which would be of benefit to those who were engaged in or who expected to engage in business. The demand for such courses proved to be so great—over six hundred students having been enrolled during the academic year 1924-1925— it was decided in the spring of 1925 to create, on the foundation of these Extension Courses, a School of Business Administration which would be closely articulated with the College of Arts and Sciences of the University. The Board of Regents of the University approved of the formation of such a School on March 20, 1925, with some of the details of the organization yet to be worked out.

The rapid expansion of business in recent years has placed upon universities the duty of giving students systematic preparation for a business career. These demands of modern business are being partially met by the University in its Department of Social and Political Science of the College of Arts and Sciences at College Park, in which students may major in the work of this department in courses leading to a B.S.or a B.A.degree. To pro-

vide for other types and classes of students of the State, however, and for a more technical preparation in this line, this reorganization of the courses in commerce in the city of Baltimore has taken place. The object of making this reorganization was to standardize the courses offered in this field in order that fully qualified students might complete a college course and receive, upon its completion, a standard collegiate degree. The courses and departments of study of this school are designed to meet the needs of three classes of students:

1. Regular Students—Graduates of high schools who wish a thorough professional training for business careers, supplemented by the elements of a broad liberal culture.

2. Special Students—Employed men and women who have completed a high-school course or one or more years of a college course and who desire to continue their education on a part-time basis and complete the requirements for a university degree or Certificate in Commerce.

3. Extension Students—Men and women who desire to pursue certain courses in order to increase their efficiency without reference to candidacy for a degree. Certain courses will be arranged for such students where a sufficient demand exists. Where extension students desire to enter the regular afternoon or evening classes they must satisfy the instructors that they have adequate preparation for carrying the courses desired.

Late Afternoon and Evening Courses

In response to the need of the greater number of students of the School of Business Adminstration the work of the School for the present is centered in afternoon and evening classes, conducted in the buildings of the University of Maryland at the corner of Lombard and Greene Streets, Baltimore. Students who desire full-time day work in this field may enroll in the College of Arts and Sciences at College Park and transfer later to the more professional courses in Baltimore, or they may carry a full-time regular program in afternoon and evening classes.

Requirements for Admission

1. The requirements for admission to the School of Business Administration for regular students who are candidates for a degree are, in general, the same as those for admission to any other undergraduate college or school of the University. Such students must present evidence of the completion of a four-year high-school course of 15 units or its equivalent. Only such can obtain the Bachelor's Degree.

2. Special students who have completed a four-year high-school course or its equivalent may be admitted, and allowed to carry certain courses on a part-time basis and to become candidates for a certificate or a degree. Upon completion of a prescribed course, totaling at least 62 semester credit hours, they will be granted a Certificate in Business. Students who have fulfilled all entrance requirements and have no im-

mediate intention of completing a four-year course for a degree may also become candidates for a certificate.

3. Extension students with or without the entrance requirements may be admitted to special courses of study but not as candidates for a degree. Such students may be granted a Certificate in Business upon the completion of at least 62 semester hours of correlated studies. Upon full matriculation in the University by the fulfillment of all entrance requirements, credits received for certain of these courses may be then counted toward a degree or certificate.

Admission to Advanced Courses

Full credit is given for work in acceptable subjects completed at institutions which maintain standards of admission and graduation equal to those of this University. Students who have been regularly admitted and have pursued college courses in Liberal Arts and Science subjects in creditable institutions for a period of two years or more will be able to complete the requirements for a degree from this School in two years or by the completion of sixty semester credit hours of work.

Requirements for the Degree

The School of Business Administration is a professional school. Its graduates who have fulfilled all entrance requirements and have completed one of the required or approved courses of study, and have secured credit for a minimum of 124 semester hours in liberal and professional subjects will be granted the degree of Bachelor of Science in Business.

Students who have successfully completed in an approved institution two years of college study which covers certain required pre-business courses may be granted the degree of Bachelor of Science in Business when they have successfully completed a minimum of 60 credit hours in required professional courses. Business demands today particularly men who are broadly trained and not men narrowly drilled in routine. Hence, two years of liberal college training are very desirable for students desiring to enter a business career.

After 1927 the first two years of the course leading to the degree of Bachelor of Science in Business may be discontinued as a part of the program of the School of Business Administration and students desiring to take the two-year professional course in business administration will have to present credits for 64 semester hours of approved collegiate study, followed in the College of Arts and Sciences of the University or in some other College of equivalent rank, or completed in extension courses which are the equivalent of the work offerd in a standard Collge of Arts and Sciences in the first two years.

Requirements for Certificate

Students not candidates for a degree who have pursued approved courses of study either as Special or Extension students and have secured a total of 62 semester credit hours may be granted a Certificate of Proficiency in Business.

Load

The regular load for full-time students, i. e., students who devote their entire time to study, is sixteen hours per semester throughout the first two years of the course. During the third and fourth years the regular load is fifteen hours.

The load for part-time students may not exceed 10 hours per week, without the special permission of the Dean.

Programs and Courses

The following fields of business training are provided for in the School of Business Administration:

1. General Business.
2. Accounting.
3. Banking, Investments and Real Estate.
4. Advertising and Marketing.

The program of studies for the first two years consists mostly of required subjects and is sufficiently broad to establish a foundation for the profession of business. Specialization begins in the third year; the student at that time selects the particular field in which he is interested.

The following curriculum for the first two years is for all regular students expecting to enter any of the special courses at the beginnig of the Junior year. No regular student is allowed to enter the junior-senior courses of the School of Business Administration until he has satisfied the prerequisites to these courses.

GENERAL COURSE

(Required of all Freshmen and Sophomores)

Freshman Year

First Semester	*Hours*	*Second Semester*	*Hours*
English, Composition and Rhetoric I	3	English, Composition and Rhetoric II	3
Foreign Language I	3*-4	Foreign Language	3*-4
Elements of Social Science I	2	Elements of Social Science II	2
Industrial and Financial History of England I	2	Industrial and Financial Hist. of United StatesII.	2
Public Speaking I	1	Public Speaking I	1
Business Mathematics I...2 or College Algebra I.....3	3-2	Business Mathematics II..2 or Trigonometry I.....3	3-2
Elementary Psychology I.	2	Elementary Psychology II.	2
	16		16

*Students entering with 2 units of one language may take the second year of that language, three hours per week.

Second Year

First Semester		*Second Semester*	
History I	2	History II	2
Economics I	2	Practical Economic Problems II	2
Accounting I	3	Accounting II	3
Foreign Language III	3	Foreign Language IV	3
Expository Writing I or English Literature I	2	Expository Writing II or English Literature II	2
Business Mathematics†	2	Business Mathematics*	2
Choose One— Economic Georgaphy and Industry I.....2 Business English I.....2 Money and Banking I...2	2	Choose One— Economic Georgaphy and Industry II.....2 Business English II....2 Money and Banking II..2	2
	16		16

Additional Required Work

The following courses are required of all students who are candidates for the degree of Bachelor of Science in Business in any of the four fields:

MONEY AND BANKING (One Year)
BUSINESS LAW (One Year)
MARKETING (One Year)
BUSINESS ORGANIZATION (One Semester)
CORPORATION FINANCE (One Semester)
ADVERTISING (One Year)
INSURANCE (One Year)
BUSINESS ENGLISH (One Year)*

This additional required work must be completed before graduation and *should* be completed as early as possible during the last two years.

Economics I and II, Industrial History I and II, Psychology I and II, Business Mathematics I and II, Accounting I and II and two years of Foreign Language must also be completed by students entering with advanced standing who have not already completed these courses.

Fees

. Preliminary Fees.
1. Matriculation Fee—$10.00 (Payable only once).
2. Record Investigation Fee—$2.00.
3. Non-Resident Fee.
Paid by students who are not residents of Maryland, $50.00 annually, payable $25 at the beginning of each semester.

II. Special Fees.
1. Late Registration Fee—$5.00.
2. Special Examination Fee—$2.00.

†If not elected in Freshman year.
*If not taken in Sophomore year.

III. Tuition Fees—Based upon $8.00 per credit hour per semester, except fees for a single course.

16 hours (per year)	$256.00
14 hours (per year)	224.00
12 hours (per year)	192.00
10 hours (per year)	128.00
8 hours (per year)	96.00
6 hours (per year)	64.00
4 hours (per year)	60.00
1 three-hour course (per year)	40.00
1 two-hour course (per year)	30.00
1 three-hour course (per semester)	20.00
1 two-hour course (per semester)	20.00

Payment of Fees

All fees are payable in advance before beginning class attendance. Fees, however, amounting to $50 or more, may be paid in two payments—two-thirds at the beginning of the first semester and one-third at the beginning of the second semester. Any special arrangements regarding fees must be made with the Comptroller or the Dean at the time of registration.

No students will be admitted to classes without class cards which will be issued only after fees have been paid.

Special Catalogue

Full detailed information regarding courses of study, fees, extension courses, etc., may be obtained from a special bulletin of the School of Business Administration which may be secured by addressing the Dean, School of Business Administration, University of Maryland, Baltimore, or the Registrar of the University.

SCHOOL OF DENTISTRY

J. BEN ROBINSON, *Dean*

The University of Maryland was created by an act of the Maryland Legislature, December 18th, 1807, for the purpose of offering a course of instruction in medical science. There were at that period but four medical schools in America—the University of Pennsylvania, founded in 1765; Harvard University, in 1782; Dartmouth College, in 1798, and the College of Physicians and Surgeons of New York, May, 1807.

The first lectures delivered on Dentistry in America were given by Horace H. Hayden, M. D., at the University of Maryland in the year 1837. A movement was started at that time to create a department of dentistry and application was made to the Regents of the University for permission to establish such work in connection with the School of Medicine. This request being refused, a charter was applied for and granted in 1839, establishing the Baltimore College of Dental Surgery, the first dental school in the world. Lectures were begun in 1839 and the first class graduated in 1841. In 1873 the Maryland Dental College, an offspring of the Baltimore College of Dental Surgery, was organized and continued instruction in dental subjects until 1879, when it was consolidated with the Baltimore College of Dental Surgery.

A department of dentistry was organized at the University of Maryland in the year 1882, graduating its first class in 1883 and each subsequent year to the present. This school was chartered as a corporation and continued as a privately owned and directed institution until 1920, when it became a State institution. The Dental Department of the Baltimore Medical College was established in 1895, continuing until 1913, when it merged with the Dental Department of the University of Maryland.

The final combining of the dental educational interests of Batimore was effected June 15, 1923, by the amalagamation of the University of Maryland School of Dentistry and the Baltimore College of Dental Surgery, under State supervision and control, becoming a department of the State University of Maryland.

Thus we find in the present Dental School of the University of Maryland a grouping and concentration of the various efforts at dental education in Maryland. From these component elements have radiated developments of the art and science of dentistry until the potential strength of the alumni is second to none either in numbers or degree of service to the profession.

Requirements for Matriculation

The School of Dentistry is a member in good standing of the American Association of Dental Schools and conforms to the rules and regulations of that body.

The present requirement for matriculation in the School of Dentistry is graduation from an accredited high school, having a four-year course, or its equivalent. This requirement will be changed to one year college pre-dental work, beginning with the regular session of 1926-1927.

Applicants for matriculation must present their credentials for verification to the Registrar of the University of Maryland, Baltimore, Maryland. A blank form for submitting credentials may be had by applying to the Dean of the Dental School. The blank must be filled out in full as indicated by various items of the form, signed by the prospective dental student and returned to the Registrar's office with $2.00 investigation fee.

Attendance Requirements

In order to receive credit for a full session, each student must have entered and be in attendance on the day the Regular Session opens, at which time lectures in all classes begin, and remain until the close of the session, the dates for which are announced in the Calendar.

In case of serious personal illness as attested by a physician, a student may register not later than the twentieth day following the advertised opening of the Regular Session. Students may register and enter not later than ten days after the beginning of the session, but such delinquency will be charged as absence from class.

In certain unavoidable circumstances of absence the Dean may honor excuses, but students with less than a minimum of eighty-five per cent. attendance will not be promoted to the next succeeding class. Regular attendance is demanded of all students. This rule will be rigidly enforced.

Advanced Standing

Students showing in addition to high school requirements, college credit in subjects of the first year of the dental curriculum, may receive advanced credits on those subjects.

Graduates from reputable and accredited colleges and universities, or at least two years completed work from Class A medical schools, will be given advanced credit in completed subjects and advanced standing in the course.

A student who desires to transfer to this school from another recognized dental school must present credentials, signed by the Dean, Secretary or Registrar of the school from which he is transferring. No student who has incurred a condition or a failure in any subject at the school from which he desires to transfer will be accepted. The transferring student must furnish evidence that he is in possession of proper high school credits.

Promotion

In order that credit be given in any subject a grade of 75 per cent. must be earned. A student to be promoted to the next succeeding year must have passed courses amounting to at least 80 per cent. of the total scheduled hours of the year.

A grade between 60 per cent. and passing mark is a CONDITION. A grade below 60 per cent. is a FAILURE. A condition may be removed by an examination. In such effort inability to make a passing mark is considered a FAILURE. A failure can only be removed by repeating the course. A student with combined conditions and failures amounting to 40 per cent. of the scheduled hours of the year will be required to repeat his year. Students who are required to repeat courses must pay regular fees.

Equipment

A complete list of all necessary instruments and materials for technic and clinic courses and text books for lecture courses will be announced for the various classes. Each student will be required to provide himself with whatever is necessary to meet the needs of his course and present same to responsible class officer for inspection. No student will be permitted to go on with his class who does not meet this requirement.

Deportment

The profession of dentistry demands, and the school of Dentistry requires evidence of good moral character of its students. The conduct of the student in relation to his work and fellow-students will indicate his fitness to be taken into the confidence of the community as a professional man. Integrity, sobriety, temperate habits, truthfulness, respect for authority and associates, honesty in the transaction of business affairs as a student will be considered as evidence of good moral character necessary to granting of degree.

Requirement for Graduation

The degree of Doctor of Dental Surgery is conferred upon the completion of the four-year course of study, each year to consist of thirty-two weeks, and each week to consist of six days of school work. The candidate must be twenty-one years of age and must possess a good moral character, and must have passed in all branches of the curriculum.

Expenses

Matriculation fee (paid only once)	$ 10.00
Tuition, resident student	200.00
Tuition, non-resident student	250.00
Dissecting fee (paid only once)	15.00
Laboratory fee	10.00
Graduation fee	10.00

Matriculation fee must be paid when registration card is issued. Tuition fee may be paid one-half October first and one-half February first. Dissecting fee must be paid to secure class card for admission to clinics. Laboratory fee must be paid at the beginning of the session. Graduation fee must be paid on May first.

All students of the several classes will be required to obtain a card of registration at the office of the Registrar, pay to the Comptroller one-half of the tuition fee, and full amount of laboratory fee before being regularly admitted to class work. The balance of tuition and other incidental fees must be in the hands of the Comptroller on February 1st, before beginning work of the second semester.

According to the policy of the School of Dentistry no fees will be returned. In case the student discontinues his course any fees paid will be credited to a subsequent course, but are not transferable.

These requirements will be rigidly enforced.

Students may matriculate by mail by sending amount of fee to W. M. Hillegeist, Registrar, University of Maryland, Lombard and Greene Streets, Baltimore, Maryland.

THE SCHOOL OF LAW

HENRY D. HARLAN, Dean

THE FACULTY COUNCIL

HON. HENRY D. HARLAN, A.M., LL.B., LL. D., Dean.

Hon. ALFRED S. NILES, A.M., LL. B.

HON. JOHN C. ROSE, LL.B., LL.D.

RANDOLPH BARTON, JR., Esq., A.B., LL.B.

EDWIN T. DICKERSON, Esq., A.M., LL.B., Secretary.

HON. JAMES P. GORTER, A.M., LL.D.

CHARLES McHENRY HOWARD, Esq., A.B., LL.B.

HON. MORRIS A. SOPER, A.B., LL.B.

ROBERT H. FREEMAN, A.M., LL.B.

While the first faculty of law of the University of Maryland was chosen in 1813, and published in 1817 "A Course of Legal Study Addressed to Students and the Profession Generally," which the North American Review pronounced to be "by far the most perfect system for the study of law which has ever been offered to the public," and which recommended a course of study so comprehensive as to require for its completion six or seven years, no regular school of instruction in law was opened until 1823. This was suspended in 1836 for lack of proper pecuniary support . In 1869 the Law School was organized, and in 1870 regular instruction therein was again begun. From time to time the course has been made more comprehensive and the staff of instructors increased in number. Its graduates now number more than two thousand, and included among them are a large proportion of the leaders of the Bench and Bar of the State and many who have attained prominence in the profession elsewhere.

The Law School Building adjoins the Medical School and part of its equipment is a large library maintained for the use of the students, which contains carefully selected text-books on the various subjects embraced in the curriculum, reports of American and English Courts, digests and standard encyclopedias. No fee is charged for the use of the library. Other libraries also are available for students.

Courses of Instruction*

The courses of instruction in the Law School extend through three scholastic years of thirty-five weeks each, with an average of at least ten hours of classroom work each week, and aim to present a general and complete view of the science of law, with reference not only to its growth by judicial exposition, but also to the principles which have been engrafted upon it by positive enactment. The course of study embraces both the theory and the practice of law, and is designed thoroughly to equip the student for the practice of his profession when he attains the Bar.

Scientific education is afforded in the principles of the Common Law, Equity, the Statutory Law of the State of Maryland and the Public Law of the United States.

The Law School endeavors to uphold a high standard of legal education and it aims to give the student a comprehensive view of the whole field of the law and particularly a knowledge of the fundamentals of American Law, in order to enable him to pass the examination for the Bar, if he has chosen the legal profession for his life work, or to fit him to care properly for his business interests if he desires legal education merely as the accomplishment of the well-equipped man of business or man of cuture.

Instruction is given by discussion of assigned cases and by lectures. The lectures are intended to present all the leading principles of the common law applicable to the subject, and the modification of the common law by statute, and to give illustrations of the application of the common and statute law. Special attention is given to the statutes in force in Maryland, and to peculiarities of the law in that State, where there are such; but the reasons for these statutory modifications and local peculiarities are explained so that the student may in a short time acquaint himself with the local peculiarities of the law in any State in which he may practice.

Readings from text books and adjudicated cases are assigned on the subjects treated in the lectures.

The full course of study extends over three years and as the Faculty is satisfied that students, who have not made considerable progress in the law before entering the Law School, would do themselves and the school an injury by attempting to graduate in a shorter period, no stu-

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*Changes in the curriculum of the School of Law, whereby the course of study leading to the degree of Bachelor of Laws is lengthened to four years, effective in the fall of 1925, and changes in the requirements for admission, effective in the fall of 1926, have been announced by the Law Faculty. Consideration is being given to the establishment of a course leading to the degree of Bachelor of Laws, and covering a period of three years, available to students devoting their full time to law study. The special catalog of the Law School should be consulted.

Requirements for Admission

dent will be permitted to receive the degree of LL.B. until after three full years of study at this school, or if admitted to advanced standing, until after one year of residence and study at this school.

Applicants for admission to the Law School must present evidence of good moral character and if candidates for the degree of Bachelor of Laws, must have completed at the time of admission to the School a four-year High School Course or its equivalent.

The Faculty Council will consider that students are properly qualified for entrance as candidates for the degree of Bachelor of Laws who have received a bachelor's degree from any reputable college or university, or certificate of graduation from any of the Normal or High Schools of the State of Maryland, or any reputable institution of a similar character, or have certificates showing that they have passed the entrance examinations to one of the principal colleges or universities in Maryland or a college or university maintaining a standard equal thereto. In the absence of such degree or certificate, applicants for admission as a candidate for the degree of Bachelor of Laws must pass satisfactory the entrance examinations on subjects equivalent to fifteen units, as rated by the State Board of Education.

Expenses

Matriculation	*Resident Tuition*	*Non-Resident Tuition*	*Graduation*
$10.00 (once only)	$150.00	$200.00	$10.00

The fees appearing above may be modified in the annual catalog to be issued later by this school.

Further information and a special catalogue of the School of Law may be had upon application to W. M. Hillegeist, Registrar, Lombard and Greene Streets, Baltimore, Md.

THE SCHOOL OF MEDICINE AND COLLEGE OF PHYSICIANS AND SURGEONS

J. M. H. ROWLAND, *Dean*

MEDICAL COUNCIL

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FRANK W. HACHTEL, M.D.
A. H. RYAN, M.D.

The School of Medicine of the University of Maryland is one of the oldest foundations for medical education in America, ranking fifth in point of age among the medical colleges of the United States. In the school building at Lombard at Greene Streets in Baltimore was founded one of the first medical libraries and the first medical college library in America.

Here for the first time in America dissecting was made a compulsory part of the curriculum; here instruction in Dentistry was first given (1837), and here were first installed independent chairs for the teaching of diseases of women and children (1867), and of eye and ear diseases (1873).

This School of Medicine was one of the first to provide for adequate clinical instruction by the erection in 1823 of its own hospital, and in this hospital intramural residency for senior students first was established.

Clinical Facilities

The University Hospital, property of the University, is the oldest institution for the care of the sick in Maryland. It was opened in September, 1823, and at that time consisted of four wards, one of which was reserved for eye cases.

Besides its own hospital, the Medical School has control of the clinical facilities of the Mercy Hospital, in which were treated last year more than 30,000 persons.

In connection with the University Hospital an outdoor obstetrical clinic is conducted. During the past year about 1,200 cases were treated in the hospital and outdoor clinic.

The hospital now has about 275 beds—for medical, surgical, obstetrical and special cases, and furnishes an excellent supply of clinical material for third and fourth year students.

Dispensaries and Laboratories

The dispensaries associated with the University Hospital and Mercy Hospital are organized on a uniform plan in order that teaching may be the same in each. Each dispensary has departments of Medicine, Surgery, Children, Eye and Ear, Genito-Urinary, Gynecology, Gastro-Enterology, Neurology, Orthopedics, Proctology, Dermatology, Throat and Nose, and Tuberculosis. All students in their junior year work one day of each week in one of these dispensaries; all students in the senior year work one hour each day. About 89,000 cases treated last year give an idea of the value of these dispensaries for clinical teaching.

Laboratories conducted by the University purely for medical purposes are the Anatomical, Chemical, Experimental Physiology, Physiological Chemistry, Histology and Embryology, Pathology and Bacteriology, and Clinical Pathology.

Prizes and Scholarships

Faculty Medal—To stimulate study among the candidates for graduation the Faculty of the School of Medicine offers a gold medal to the candidate who passes the best general examination. Certificates of Honor are awarded to the five candidates standing next highest.

Hirsh Prize—A prize of $50 is given each year by Mrs. Jose L. Hirsh as a memorial to the late Dr. Jose L. Hirsh, former Professor of Pathology in this School, and is awarded to the student in the third year who has done the most satisfactory work in Pathology.

The Dr. Samuel Leon Frank Scholarship was established by Mrs. Bertha Frank as a memorial to the late Dr. Samuel Leon Frank, an alumnus of the University, and entitles the holder to exemption from payment of one-half of the tuition fee for the year. It is awarded each year upon the nomination of the Faculty "to a medical student who in the judgment of the said Faculty is of good character and in need of pecuniary assistance to continue his medical course."

Hitchcock Scholarships—From a bequest to the School of Medicine by the late Charles M. Hitchcock, M. D., an alumnus of the University, two scholarships have been established which entitle the holders to exemption from payment of one-half of the tuition fees for the year.

These scholarships are awarded annually by the Faculty to students who have meritoriously completed the work of at least the first year of the curriculum in medicine, and who present to the Faculty satisfactory evidence of good moral character and of inability to continue the course without pecuniary assistance.

The Randolph Winslow Scholarship, established by Prof. Randolph Winslow, M.D., LL.D., entitles the holder to exemption from the payment of one-half of the tuition fee of that year.

It is awarded annually by the Trustees of the Endowment Fund of the University, upon nomination of the Faculty, to "a needy student of the senior, junior, or sophomore class of the Medical School. He must have maintained an average grade of 85 per cent in all his work up to the time of awarding the scholarship. He must be a person of good character and must satisfy the Faculty of Physic that he is worthy of and in need of assistance."

The University Scholarship entitles the holder to exemption from payment of the tuition fee of the year and is awarded annually by the Faculty to a student of the senior class who presents to the Faculty satisfactory evidence that he is of good moral character and is worthy of and in need of assistance to complete his work.

The Frederica Gehrmann Scholarship was established by bequest of the late Mrs. Frederica Gehrmann and entitles the holder to exemption from payment of tuition fees. This scholarship is awarded to a second-year student who at the end of the year passes the best practical examination in Anatomy, Physiology, Physiological Chemistry and Pharmacology. This examination is competitive.

The Dr. Leo Karlinsky Scholarship, established by Mrs. Leo Karlinsky in memory of her husband, Dr. Leo Karlinsky, entitles the holder to exemption from payment of tuition fee of that year to the extent of $200.00. It is awarded annually by the Trustees of the Endowment Fund of the University upon nomination of the Medical Council, "to a needy student of the senior, junior, or sophomore class of the Medical School. He must have maintained an average grade of 85 per cent in all his work up to the time of awarding the scholarship. He must be a person of good character and must satisfy the Medical Council that he is worthy of and need of assistance."

The Clarence and Genevra Warfield Scholarships—There are five scholarships of $300 each, established by the Regents from the income of the fund bequeathed by the will of Dr. Clarence Warfield.

These scholarships will be available to students of any of the classes of the course in medicine. Preference is given to students from the counties of the State of Maryland which the Medical Council from time to time may determine to be most in need of medical practitioners.

Any student receiving one of these scholarships must, after graduation and a year's interneship, agree to undertake the practice of medicine for a term of two years in the county to which the student is accredited or in a county selected by the Council. In the event that a student is not able to comply with the condition requiring him to practice in the county in which he is accredited by the Council, the money advanced by the Regents shall be refunded. A bond in the amount of $1,200, the expense of which is borne by the Fund, must be filed by the student accepting one of these scholarships for faithful performance of the conditions imposed.

Walter B. Brooks Scholarship—Mr. Walter B. Brooks, who is a member of the Hospital Council, has established a four-year scholarship. This scholarship is of the value of $350 a year. Its award is governed by the same terms and conditions as the Warfield Scholarships.

Israel and Cecilia A. Cohen Scholarship—This scholarship has been established through the generosity of Miss Eleanor S. Cohen, of Baltimore, in memory of her parents, Israel and Cecilia E. Cohen. This is governed by the same terms and conditions as the Warfield Scholarships.

Medical Alumni Scholarship—This scholarship has been established by the Medical Alumni Association of the Department of Medicine of the University of Maryland.

It is awarded annually by the Executive Committee of the Alumni Association to a student, who, in the opinion of the Executive Committee, is most worthy of it.

Requirements for Admission

Admission to the curriculum in medicine is by a completed Medical Student Certificate issued by the registrar of the University of Maryland. This certificate is obtained on the basis of satisfactory credentials, or by examination and credentials, and is essential for admission to any class.

The requirements for the issuance of the Medical Student's Certificate are:

(a) The completion of a standard four-year high school course or the equivalent, and in addition:

(b) Two years, sixty-eight semester hours of college credits, including chemistry, biology, physics and English, as outlined in the Pre-Medical Curriculum, or its equivalent, will be required.

Women are admitted to the Medical School of this University.

(a) Details of the High School Requirements

For admission to the Pre-Medical Curriculum students,

1. Shall have completed a four-year course of 15 units in a standard accredited high school or other institution of standard secondary school grade, or;

2. Shall have the equivalent as demonstrated by successfully passing entrance examinations in the following subjects:

Credits for admission to the pre-medical course may be granted for the subjects shown in the following list and for any other subject counted by a standard accredited high school as a part of the requirement for its diploma provided that at least eleven units must be offered in Groups I-V:

(b) Schedule of Subjects Required or Accepted for Admission to the Pre-Medical Curriculum

Subjects	*Units*	*Required*
GROUP I.—English:		
Literature and composition	3-4	3
GROUP II.—Foreign Languages:		
Latin	1-4	*2
Greek	1-3	..
French or German	1-4	..
Other foreign languages	1-4	..
GROUP III.—Mathematics:		
Elementary Algebra	1	1
Advanced Algebra	½-1	..
Plane Geometry	1	1
Solid Geometry	½	..
Trigonometry	½	..
GROUP IV.—History:		
Ancient History	½-1	..
Medieval and Modern History	½-1	..
English History	½-1	..
American History	½-1	..
Civil Government	½-1	..
GROUP V.—Science:		
Botany	½-1	..
Zoology	½-1	..

*Both of the required units of Foreign Languages must be of the same language, but the two units may be presented in any one of the languages specified.

Of the fifteen units of high school work seven units are required, as indicated in the foregoing schedule: the balance may be made up from any of the other subjects in the schedule.

Chemistry	-1	..
Physics	-1	..
Physiography	½-1	..
Physiology	½-1	..
Astronomy	½	..
Geology	½-1	..

GROUP VI.—Miscellaneous:

Agriculture	1-2	..
Bookkeeping	½-1	..
Business Law	½	..
Commercial Geography	½-1	..
Domestic Science	1-2	..
Drawing—Freehand and Mechanical	½-2	..
Economics and Economy History	½-1	..
Manual Training	1-2	..
Music—Appreciation or Harmony	1-2	..
Stenography	1	..

Expenses

Following are the fees for students in the Medical School:

Matriculation	*Resident—Non-Resident Tuition*		*Laboratory*	*Graduation*
$10.00 (once only)	$250.00	$300.00	$10.00 (yearly)	$10.00

Estimated living expenses for students in Baltimore:

	Low	*Average*	*Liberal*
Books	$27	$48	$75
College incidentals	20	20	20
Board, eight months	200	322	400
Room rent	64	80	100
Clothing and laundry	50	80	150
All other expenses	25	50	75
Total	$386	$600	$820

SCHOOL OF NURSING

ANNIE CREIGHTON, R. N., Director and Superintendent of Nurses.

The University of Maryland School of Nursing was established in the year 1889. Since that time it has been an integral part of the University of Maryland Hospital.

The school is non-sectarian, the only religious services being morning prayers.

The University of Maryland Hospital is a general hospital containing about 285 beds. It is equipped to give young woman a thorough course of instruction and practice in all phases of nursing including experience in the operating room.

The school offers the student nurse unusual advantages in its opporunity for varied experience and in its thorough curriculum taught by well qualified instructors and members of the medical staff of the University.

Programs Offered

The program of study of the School is planned for two groups of students: (a) The three-year group; (b) the five-year group.

Requirements for Admission

In order to become a candidate for admission to the three-year program of the School, application must be made in person or by letter, to the superintendent of nurses. An application by letter should be accompanied by a statement from a clergyman testifying to good moral character and from a physician certifying to sound health and unimpaired faculties. No person will be considered who is not in a good physical condition, between the ages of 18 and 35. She must also show that she has a high-school education or its equivalent. This is the minimum requirement, for women of superior education and culture are given preference provided they meet the requirements in other particulars.

The fitness of the applicant for the work and the propriety of dismissing or retaining her at the end of her term of probation, is left to the decision of the superintendent of nurses. Misconduct, disobedience, insubordination, inefficiency, or neglect of duty are causes for dismissal at any time by the superintendent of nurses with the approval of the president of the University.

Students are admitted to this group in February, June and September.

The requirements for admission to the five-year program of the School of Nursing are the same as for the other colleges and schools. Section I, "Entrance".

Three-Year Program

The three-year program is designed to meet the requirements for the Diploma in Nursing and comprises the work of the Junior, Intermediate and Senior years.

Junior Year

The Junior Year is divided into two periods. The first term is the preparatory period (4 mos.) and the second the junior term.

In the preparatory term the student is given practical instruction in:

Junior Year—First Term

1. The making of hospital and surgical supplies. The cost of hospital materials, apparatus and surgical instruments.
2. Household economics and the preparation of foods.
3. The hospital outpatients department and dispensary.

During this term the practical work is done under constant supervision, and teaching is given correlatively.

Excursions are made to markets, hygienic dairies, linen rooms, laundry and store room.

The maximum number of hours per week in formal instruction divided into lecture and laboratory periods is thirty hours and includes courses in anatomy and physiology, dietetics, materia medica, personal hygiene, drugs and solutions, household economics, short course in ethics and history of nursing.

At the close of the first half of junior year the students are required to pass satisfactorily both the written and oral tests, and failure to do so will be sufficient reason to terminate the course at this point.

Subsequent Course

The course of instruction, in addition to the probationary period, occupies two and three-fourth years, and students are not accepted for a shorter period.

After entering the wards, the students are constantly engaged in practical work under the immediate supervision and direction of the head nurses and instructors.

Throughout the three years, regular courses of instruction and lectures are given by members of the medical and nursing school faculties.

Junior Year—Second Term

During this period the students receive theoretical instruction in massage, general surgery, bacteriology, urinalysis and laboratory methods. Practical instruction is received in the male and female, medical, surgical and children's wards.

Intermediate Year

During this period the theoretical instruction includes pediatrics, infectious diseases, obstetrics and gynecology. The practical work provides experience in the nursing of obstetrical and gynecological patients in the operating rooms and the outpatient department.

Senior Year

During this period the student receives short courses of lectures on subjects of special interest. This includes a consideration of the work of institutions of public and private charities, of settlements, and various branches of professional work in nursing.

Experience is given in executive and administration work to those showing exceptional ability in the senior year. With these students conferences are held on administration and teaching problems.

Hours On Duty

During the probation term the students are on duty not more than six hours daily. During the Junior, Intermediate and Senior years, the students are on eight hour day duty, with six hours on Sundays and holidays, and ten hour night duty. The night duty periods are approximately two months each, with one day at the termination of each term for rest and recreation. The period of night duty is approximately five or six months during the three years.

Sickness

A physician is in attendance each day, and when ill all students are cared for gratuitously. The time lost through illness in excess of two weeks, during the three years, must be made up. Should the authorities of the school decide that through the time lost the theoretical work has not been sufficiently covered to permit the student to continue in that year, it will be necessary for her to continue her work with the next class.

Vacations

Vacations are given between June and September. A period of three weeks is allowed the student at the completion of first and second years.

Expenses

A student receives her board, lodging and a reasonable amount of laundry from the date of entrance. During her period of probation she provides her own uniforms made in accordance with the hospital regulations. After being accepted as a student nurse she wears the uniform furnished by the hospital. The student is also provided with text-books and in addition to this is paid five dollars ($5.00) a month. Her personal expenses during the course of training and instruction will depend entirely upon her individual habits and tastes.

Five-Year Program

In addition to the regular three-year course of training the University offers a combined Academic and Nursing program leading to the degree of Bachelor of Science and a Diploma in Nursing.

The first two years of the course (or pre-hospital period), consisting of 70 semester hours, are spent in the College of Arts and Sciences of the University, during which period the student has an introduction to the general cultural subjects which are considered fundamental in any college training. At least the latter of these two years must be spent in residence at College Park in order that the student may have her share in the social and cultural activities of college life. The last three years are spent in the School of Nursing in Baltimore or in the Training School of Mercy Hospital, which is also affiliated with the School of Medicine of the University. In the fifth year of the combined program certain elective courses such as Public Health Nursing, Nursing Education, Practical Sociology, and Educational Psychology are arranged.

	Semester	
Freshman Year	*I*	*II*
English Composition and Rhetoric (Eng. 101)	3	3
Foreign Language	4-3	4-3
General Chemistry (Chem. 101)	4	4
Elements of Social Science (Soc. Sci. 101)	3	3
Elementary Foods (H. E. 101)	3	3
Physical Education	1	1
	18	18
Sophomore Year		
English Literature or History	3	3
Organic and Food Chemistry	3	..
Nutrition	..	3
General Economics (Econ. 105)	3	..
Elements of Psychology (Psych. 101)	..	3
Gen. Zoology (Zool. 101)	4	..
Public Speaking (P. S. 101-102)	1	1
Physical Education (Phys. Ed. 102)	2	2
Electives	1	5
	17	17

Degree and Diploma

The Diploma in Nursing will be awarded to those who have completed satisfactorily the three-years' program.

The degree of Bachelor of Science and the Diploma in Nursing are awarded to the students who complete successfully the prescribed combined academic and nursing program.

Scholarships

One scholarship has been established by the aulmnae of the training school. It entitles a nurse to a six-weeks course at Teachers College, New York. This scholarship is awarded at the close of the third year to the student whose work has been of the highest excellence, and who desires to pursue post-graduate study and special work.

An alumnae pin is presented by the Woman's Auxiliary Board to the student who, at the completion of three years, shows exceptional executive ability.

SCHOOL OF PHARMACY

E. F. KELLY, Dean

The School of Pharmacy 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 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.

Location

The School of Pharmacy is located at the northeast corner of Lombard and Greene Streets, with the Schools of Medicine, Law and Dentistry.

Policy and Degrees

The chief purpose of this school is to prepare its matriculants for the intelligent practice of dispensing pharmacy, without overlooking the fact that there exist other divisions of the profession and that all need to be scientifically taught. With this in view, the School of Pharmacy has arranged a graded course, so that it may build for the student a well ordered foundation, upon which the pharmaceutical specialty may be developed.

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 the successful completion of the work prescribed for the entire four years.

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 degree 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 eight 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.

This school is registered in the New York Department of Education, and by the Boards of Pharmacy of Ohio and other states that maintain a registration bureau. Its diploma is recognized in all states.

Requirements for Admission

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 both.

Applicants whose credentials do not meet the requirements must stand an examination in appropriate subjects to make up the required number of units. The fee for such examination is one dollar per subject; five dollars for the entire number of subjects.

Credit will be given for first-year pharmaceutical subjects to those students coming from schools of pharmacy holding membership in the American Conference of Pharmaceutical Faculties, provided they present a proper certificate of the satisfactory completion of such subjects and 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.

Requirements for Graduation

1. The candidate must possess a good moral character.
2. He must have completed successfully 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. In either case the last year must be taken in this school.

Matriculation and Registration

The Matriculation Ticket 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 5th, 1925.

Expenses

	Tuition			
Matriculation	*Resident—Non-Resident*		*Laboratory*	*Graduation*
$10.00 (only once)	$200.00	$250.00	$10.00 (yearly)	$10.00

Tuition for the first semester and breakage fee shall be paid to the Comptroller at the time of registration; and tuition for the second semester and graduation fee (returned in case of failure) on or before February 1, 1925.

A bulletin giving details of the course in Pharmacy may be obtained by addressing the School of Pharmacy, University of Maryland, Baltimore, Md.

SECTION III. DESCRIPTION OF COURSE

The courses of instruction described in this section are offered at College Park. The courses offered in the Baltimore Schools are described in the separate announcements issued by the several schools.

For the convenience of the student in making out his schedule of studies, the subjects in the following Description of Courses are arranged alphabetically, as follows:

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Courses for undergraduates are designated by the numbers 100-199, inclusive; courses primarily for graduate students by the number 200-299 inclusive.

The letter following the number of the course indicates the semester in which the course is offered: thus, 100 f is offered the first semester; 100 s, the second semester; 100 y, the year. A capital S after a course number indicates that the course is offered in the Summer Session only.

The number of hours' credit is shown by the arabic numeral in parenthesis after the title of the course.

A separate schedule of courses is issued each semester, giving the hours, places of meeting and other information required by the student in making out his schedule. Students will obtain their schedules when they register.

Students are advised to consult the statements of the colleges and schools in Section II when making out their programs of studies; also Regulation of Studies, Section I.

AGRICULTURAL ECONOMICS

A. E. 101 f. *Agricultural Economics* (3)—Three lectures or recitations. Prerequisites, Econ. 105.

A general course in Agricultural Economics, with special reference to population trend, agricultural wealth, land tenure, farm labor, agricultural credit, the tariff, price movements and marketing and co-operation.

A. E. 102 s. *The Marketing of Farm Products* (3)—Three lectures or recitations. Open to juniors and seniors. Prerequisite, Econ. 105.

A complete analysis of the present system of transporting, storing and distributing farm products and a basis for intelligent direction of effort in increasing the efficiency of marketing methods.

A. E. 103 f. *Co-operation in Agriculture* (3)—Three lectures or recitations. Open to juniors and seniors. Prerequisite, Econ. 105.

Historical and comparative development of farmers' co-operative organizations, stressing particularly present tendencies.

A. E. 104 s. *Transportation of Farm Products* (3)—Three lectures or recitations. Open to juniors and seniors. Prerequisites, Econ. 105.

A study of the development of transportation in the United States, the different agencies for transporting farm products, with special attention to such problems as tariffs, rate structure and the development of fast freight lines, refrigerator service, etc.

For Advanced Undergraduates and Graduates

A. E. 105 f. *Seminar in Marketing* (1-3)—Open to seniors and graduate students.

This course will consist of special reports by students on subjects relating to the marketing of farm products, and a discussion and criticism of the same by the members of the class and the instructor. (DeVault.)

A. E. 106 s. *Seminar* (1-3)—Open to seniors and graduate students.

With the permission of the instructor, students will be permitted to work on any research problem in agricultural economics which they may choose, or a special list of subjects will be made up from which the students may select their research problems. There will be occasional class meetings for the purpose of reports on progress of work, methods of approach, etc. (De Vault.)

For Graduates

A. E. 201 y. *Research and Thesis* (8)—Students will be assigned research work in Agricultural Economics under the supervision of the instructor. The work will consist of original investigation in problems of Agricultural Economics, and the results will be presented in the form of a thesis.

AGRICULTURAL EDUCATION AND RURAL LIFE

For Advanced Undergraduates and Graduates

AG. ED. 101 y. *Teaching Secondary Vocational Agriculture* (8) Three lectures and one laboratory period the first semester. One seminar period and practicum work to be arranged the second semester. Practicum work may be arranged during the first semester. Prerequisites,

Ed. 104; A. H. 101, 102; Dairying 101; Poultry 101; Soils 101; Agron. 101, 102; Hort. 101, 111; F. Mech. 101, 104; A. E. 101; F. M. 102.

Types of schools and classes; administrative programs; qualifications of teachers; day class instruction—objectives, selection of projects, project instruction, selection of content for group instruction, methods of class period; evening class instruction, part time class instruction, equipment and other administrative problems; unit courses; student projects; investigations; reports. (Cotterman.)

AG. ED. 102 s. *Educational Leadership in Rural Communities* (3) Three lectures a week.

Ancient and foreign rural communities; evolution of American rural communities; rural social institutions; analysis of rural communities; rural community problems; rural community centers; rural community programs; principles of leadership; rural community leaders; investigations; reports. This course is designed especially for persons who expect to be called upon to assist in shaping educational and other community programs for rural people. (Cotterman.)

AG. ED. 103 s. *Objectives and Methods in Extension Education* (3) Three lectures a week.

Given under the supervision of the Extension Service and designed to equip young men to enter the broad field of extension work. Methods of assembling and disseminating the agricultural information available for the practical farmer; administration, organization, supervision and practical details connected with the work of a successful county agent, club work and extension specialist. Students will be required to gain experience under the guidance of men experienced in the respective fields. Traveling expenses for this course will be adjusted according to circumstances, the ability of the man and the service rendered. (Cotterman and Extension Specialists.)

AG. Ed. 104 f. *Teaching Farm Shop in Secondary School* (1)—One lecture a week.

Objectives in the teaching of farm shop; contemporary developments; determination of projects; shop management; shop programs; methods of teaching; equipment; materials of instruction; special projects. (Carpenter.)

AG. ED. 105 f. *The Project Method in Secondary Vocational Agriculture* (3)—One two-hour seminar.

The evolution of the project; objectives; psychology of the project; methods of project teaching; project supervision; project cost accounting; standards and norms; evaluating results. This course is organized as a Saturday morning seminar particularly for the benefit of teachers of Vocational Agriculture who can arrange to attend the university on Saturday morning. In addition to the usual minor investigations and reports, a major term paper will be required of each student. (Cotterman.)

AG. ED. 106 s. *Special Problems in the Teaching, Administration and Direction of Courses in Secondary Vocational Agriculture* (3)—One two-hour seminar.

This course embraces a consideration of the outstanding problems, the teacher, supervisor and director of courses in Vocational Agriculture. It is designed especially to meet the needs of teachers of Vocational Agriculture who can arrange to attend the university on Saturday morning. In addition to the usual minor investigations and reports, a major term paper will be required of each student. (Cotterman.)

For Graduates

AG. ED. 101 S. *Special Problems in the Teaching of Vocational Agriculture* (3 or 4)—Summer sessions only. Prerequisite Ag. Ed. 101.

Analysis of the work of the supervisor; supervisory programs; policies; problems; contemporary developments; principles of supervision; investigations; reports. (Cotterman.)

AG. ED. 202 S. *Supervision of Vocational Agriculture* (3 or 4)—Summer sessions only. Prerequisite Ag. Ed. 101.

Analysis of the work of the superior; supervisory programs; policies; problems; contemporary developments; principles of supervision; investigations; reports. (Cotterman.)

AG. ED. 203 s. *Rural Community Surveys* (3-5)—Credits determined by the amount and character of work done. One lecture. Prerequisites Ag. Ed. 102; Agron. 122.

Essentially a field course. Each student is required to make a social survey of some community and to submit a satisfactory report of the same. The work may be done during the summer in the community in which the student may be residing or if he be a teacher, it may be done during the winter in the community in which he may be teaching. Students electing this course must arrange to report for conferences both before the work is undertaken and during the time the work is in progress. At least one field conference must be arranged with the instructor. (Cotterman.)

AG. ED. 204 s. *Special Problems in Agricultural Extension and in the Teaching of Collegiate Agriculture* (3-5)—Prerequisite Ed. 202, or Ag. Ed. 103.

Analysis of the work of the extension worker and the teacher in the Agricultural college; purpose and function of the Land Grant College; policies; problems; contemporary organizations; special methods; guiding principles; investigations; reports. (Cotterman.)

AGRONOMY

AGRON. 101 f. *Field Crop Production* (3)—Two lectures and one laboratory period.

History, distribution, adaptation, culture, improvement and uses of cereal, forage, pasture, cover and green manure crops.

AGRON. 102 s. *Field Crop Production* (3)—Two lectures and one laboratory period.

Continuation of Agron. 101.

AGRON. 103 s. *Grading Farm Crops* (2)—One lecture and one laboratory period. Prerequisite, Agron. 101 and 102.

Market classifications and grades as recommended by the United States Bureau of Markets and practice in determining the grades.

AGRON. 104 f. *Grain and Hay Judging* (1)—One laboratory period. Prerequisite, Agron. 101 and 102.

Practice in judging the cereals for milling, seeding and feeding purposes and practice in judging hay.

AGRON 105 s. *Tobacco Production* (2)—One lecture and one laboratory period. Offered only in even years, 1924, 1926, etc.

This course takes up in detail the handling of the crop from preparation of the plant bed through marketing, giving special attention to Maryland types of tobacco.

AGRON. 109 y. *Research and Thesis* (4)

Students are given a chance to do investigation work either in collecting information or in solving some problem in the laboratory, field or greenhouse.

For Advanced Undergraduates and Graduates

AGRON. 110 f. *Genetics* (3)—Two lectures and one laboratory period.

General course in genetics designed to prepare students for later courses in the breeding of animals or crops in which they are specializing. (Kemp.)

AGRON. 111 f. *Advanced Genetics* (3)—Two lectures and one laboratory period. Prerequisite, Agron. 110.

This course takes up further details of mutants and chromosome irregularities, interference and coincidence, interspecies crosses and the results of physical attempts to modify germplasm. (Kemp.)

AGRON 112 s. *Crop Varieties* (2)—One lecture and one laboratory period. Prerequisites, Agron. 101 and Botany 101.

A study of the cereal classifications that have been adopted by the American Society of Agronomy with brief consideration of variety characteristics of other crop plants. (Kemp.)

AGRON. 113 f. *Crop Breeding* (2)—One lecture and one laboratory period. Prerequisite, Agron. 110.

The principles of breeding as applied to field crops and methods used in crop improvement. (Kemp.)

AGRON. 120 s. *Cropping Systems and Methods* (2)—Two lectures. Prerequisites, Agron. 101 and Soils 101.

Principles and factors influencing cropping systems in the United States; study of rotation experiments; theories of cropping methods; and practice in arranging type farming systems. (Metzger.)

AGRON. 121 s. *Methods of Crop Investigations* (2)—One lecture and one laboratory period.

A consideration of crop investigation methods at the various experiment stations and the standardization of such methods. (Kemp.)

AGRON 122 f. *Agricultural Statistics* (2)—Two lectures.

A study of the collection, analysis, interpretation and presentation of agricultural statistics. The course will include the making of maps, diagrams, charts and graphs, together with a study of expressions of type variability and correlation.

AGRON. 123 s. *Advanced Agricultural Statistics* (2)—Two lectures. Prerequisite Agron. 110 or Agron. 122.

A study of the theory of error, measures of relationship, multiple correlation and regression, curve fitting.

AGRON. 129 y. *Seminar* (2)—One report period each week.

The seminar is devoted largely to reports by students on current scientific publications dealing with problems in agronomy.

For Graduates

AGRON. 292 y. *Crop Breeding*—Credits determined by work accomplished.

The content of this course is similar to the undergraduate course in crop breeding, but will be adapted more to graduate students and more of a range will be allowed in choice of material to suit special cases. (Kemp.)

AGRON. 209 y. *Research*—Credits determined by work accomplished.

With the approval of the head of the department the student will be allowed to work on any problem in agronomy or he will be given a list of suggested problems from which he may make a selection. (Staff.)

ANIMAL HUSBANDRY

A. H. 101 f. *Types and Breeds* (3)—Two lectures and one laboratory period.

The origin, history, characteristics and adaptability of the various breeds of livestock.

A. H. 102 f. *Feeds and Feeding* (3)—Two lectures and one laboratory period.

Elements of nutrition, source, characteristics and adaptability of the various food stuffs to the several classes of livestock. Feeding standards, the calculation and compounding of rations.

A. H. 103 s. *Principles of Breeding* (3)—Two lectures and one laboratory period. Junior year.

This course covers the practical aspects of animal breeding including heredity, variations, selections, growth, development, systems of breeding and pedigree work.

A. H. 104 f. *Swine Production* (3)—Two lectures and one laboratory period.

The care, feeding, breeding, management and judging of swine and the economics of the swine industry.

A. H. 105 s. *Beef Production* (2)—One lecture and one laboratory period.

The care, feeding, breeding, management of beef herds, fattening and the economics of the beef industry.

A. H. 106 s. *Horse and Mule Production* (2)—One lecture and one laboratory period. Junior year.

The care, feeding, breeding and management of horses. Market classes and grades and judging.

A. H. 107 s. *Sheep Production* (3)—Two lectures and one laboratory period. Senior year.

Care, feeding, breeding and management of the farm flock. Judging of sheep and the grading of wool.

A. H. 108 f. *Meat and Meat Products* (2)—Two laboratory periods. Senior year.

The slaughtering of farm livestock and the production, preparation and handling of meat and meat products.

A. H. 109-110 y. *Advanced Judging* (2)—One laboratory period. Junior or senior year.

First Semester—The comparative and competitive judging of sheep and swine. Second Semester—The comparative and competitive judging of horses and beef cattle. Various trips to stock farms throughout the state will be made. Such judging teams as may be chosen to represent the University will be selected from among those taking this course.

A. H. 111 f. *Markets and Marketing* (3)—Two lectures and one laboratory. Senior year.

History and development, organization and status of the meat, wool and horse industries. Market classes and grades of livestock. American livestock markets and how they function.

A. H. 112 y. *Seminar* (2)—One lecture period. Senior and graduate students only.

Problems, readings and discussions on subjects relating to animal husbandry.

A. H. 113 y. *Research and Thesis* (6)—

Work to be done by assignment under supervision. Original investigation in problems in animal husbandry, the results of which research are to be presented in the form of a thesis.

For Advanced Undergraduates and Graduates

A. H. 114 s. *Nutrition* (3)—Two lectures and one laboratory. Senior year.

A study of digestion, assimilation, metabolism, protein and energy requirements. Methods of investigation and studies in the utilization of food and nutrients. (Meade.)

For Graduates

A. H. 210 y. *Research*—Credit to be determined by the amount and character of work done.

AQUICULTURE

(See under Zoology

ASTRONOMY

ASTR. 101 f or s. *Astronomy* (3)—Three lectures. Elective.
An elementary course in descriptive astronomy.

BACTERIOLOGY

BACT. 101 f. *General Bacteriology* (3)—Repeated second semester. One lecture and two laboratory periods. Junior year.

A brief history of bacteriology; microscopy; bacteria and their relation to nature; morphology, classification; preparation of cultural media; sterilization and disinfection; microscopic and macroscopic examination of bacteria; classification, composition and uses of stains; isolation, cultivation and identification of aerobic and anaerobic bacteria; vital activities of bacteria.

BACT. 102 s. *General Bacteriology* (3)—One lecture and two laboratory periods.

Continuation of Bact. 101. Bacteria in relation to water, milk, food, soil and air; Pathogens and immunity.

For Advanced Undergraduates and Graduates

BACT. 103 y. *Dairy Bacteriology* (6)—One lecture and two laboratory periods. Senior year. Prerequisite Bact. 101.

Historical sketch; relation of bacteria to dairy products; preparation of media; plating by dilution method; direct microscopic examination; kinds of bacteria in milk and their development; pasteurization by flash and hold methods; sources of contamination of milk, including stable atmosphere, udder, exterior of animals, equipment and attendants; kind of utensils and their sterilization; sedimentation test, centrifugalization; methelyne blue reduction test; leucocyte determination; anerobic spore test; fresh and old milk; baby and special milk; market milk; graded milk; certified milk; sour milk; whey; cream; butter; cheese; condensed milk; powdered milk and milk starters. (Poelma.)

BACT. 104 y. *Advanced Bacteriology* (4-10)—Senior year. Prerequisite, Bact. 101.

This course is intended primarily to give the student a chance to develop his own initiative. He will be allowed to decide upon his project and work it out as much as possible in his own way under proper supervision. In this manner he will be able to apply his knowledge of bacteriology to a given problem in that particular field in which he is interested. He will get to know something of the methods of research. Familiarity with library practices and current literature will be included. (Pickens.)

BACT. 105 f. *Hematology* (2)—Senior year. Prerequisite, Bact. 101.

Procuring blood; estimating the amount of hemoglobin; color index; examination of red cells and leucocytes in fresh and stained preparations; numerical count of erythrocytes and leucocytes; differential count of leucocytes; sources and development of the formed elements of blood; pathological forms and counts. (Pickens.)

BACT. 106 f. *Serology* (2-3)—Senior year. Prerequisite, Bact. 102.

The theory and application of the Complement Fixation Test. (Pickens.)

BACT. 107 s. *Urinalysis* (2)—Senior year. Prerequisite, Bact. 101.

BACT. 108 y. *Thesis* (4)—Senior year. Prerequisites, Bact. 101 and at least one of the advanced courses.

Investigation of given project, results of which are to be presented in the form of a thesis and submitted for credit toward graduation. (Pickens.)

BACT. 109 y. *Seminar* (2)—Senior year.

The work will consist of making reports on individual projects and on recent scientific literature. (Pickens and Staff.)

For Graduates

BACT. 201 y. *Research Bacteriology* (4-12)—Prerequisites, Bact. 101 and in certain cases, Bact. 103, depending upon the project. (Pickens.)

BOTANY

BOT. 101 f or s. *General Botany* (4)—Two lectures and two laboratory periods.

General introduction to botany, touching briefly on all phases of the subject and planned to give the fundamental prerequisites for study in the special departments.

BOT. 102 s. *General Botany* (4)—Two lectures and two laboratory periods. Prerequisite, Bot. 101.

A continuation of Botany 101, dealing especially with the plant groups; algae, fungi, liverworts, moses, ferns and seed plants; with occasional field trips to study the local vegetation.

BOT. 103 s. *Systematic Botany* (2)—One lecture and one laboratory period. Prerequisite, Bot. 101.

A study of the local flora. A study is made of floral parts and the essential relations between the groups of flowering plants. Students become familiar with the systematic key used to identify plants.

BOT. 104 S. *Mycology* (2)—One lecture and one laboratory period.

Introductory comparative study of the morphology, life history and classification of economic fungi.

For Advanced Undergraduates and Graduates

BOT. 105 f. *Methods in Plant Histology* (3)—One lecture and two laboratory periods. Prerequisite, Bot. 101.

Primarily a study in technique. It includes methods of killing, fixing, imbedding, sectioning, staining and mounting of plant materials.

BOT. 106 f or s. *Advanced Taxonomy* (3)—One lecture and two laboratory periods. Prerequisite, Bot. 101.

The course is offered for students who want more proficiency in systematic botany than the elementary course affords. A student who completes the course should be able to classify the grasses and other common plants of the state.

BOT. 107 f or s. *Advanced Mycology* (2)—One lecture and one laboratory period. Prerequisite, Bot. 101 and Bact. 101.

A detailed treatment of the classification, morphology and economics of the fungi, with studies of life histories in culture and identification of field materials.

For Graduates

BOT. 202. *Special Studies of Fungi*—Credit hours according to work done. Prerequisite, Bot. 103 or 106.

Special problems in the structure or life history of fungi or the monographic study of some group of fungi.

BOT. 203. *Aquatic Plants*—Credit hours according to work done. Prerequisite, Bot. 101.

Taxonomy, distribution, life history and economics of algae and other plants of Maryland waters.

BOT. 204. *Special Plant Taxonomy*—Credit hours according to work done. Prerequisite, Bot. 105.

Original studies in the taxonomy of some group of plants.

CHEMISTRY

A. General Chemistry

CHEM. 101 A y. *General Chemistry and Qualitative Analysis* (8)—Two lectures and two laboratory periods each semester.

A study of the non-metals and metals, the latter being studies from a qualitative standpoint. One of the main purposes of the course is to develop original work, clear thinking and keen observation. This is accomplished by the project-method of teaching.

Course A is intended for students who have never studied chemistry, or have passed their high school chemistry with a grade of less than B.

CHEM. 101 B y. *General Chemistry and Qualitative Analysis* (8)—Two lectures and two laboratory periods each semester.

This course covers much the same ground as Chemistry 101 A, except that the subject matter is taken up in more detail with emphasis on chemical theory and important generalization. The laboratory work deals with fundamental principles, the preparation and purification of compounds and a systematic qualitative analysis of the more common bases and acids.

Course B is intended for students who have passed an approved high school chemistry course, with a grade of not less than B.

For Advanced Undergraduates and Graduates

CHEM. 102 y. *Inorganic Preparations* (6)—Two afternoons laboratory and one conference each semester. Prerequisite, Chem. 105.

The theory and practice of the preparation of pure, inorganic compounds. (Haring.)

For Graduates

CHEM. 201 y. *Research in Inorganic Chemistry* (12)—Open to students working for the higher degrees. Prerequisite, a bachelor's degree in Chemistry or its equivalent. (Gordon and Haring.)

B. Analytical Chemistry

CHEM. 103 f. *Qualitative Analysis* (2)—Two laboratory periods. Prerequisite, Chem. A or B 101.

A course in qualitative analysis for students in chemistry.

CHEM. 104 y. *Chemical Calculations* (2)—One credit each semester. Pre-requisite, Chemfl 101.

Chemical problems relating to analytical chemistry.

CHEM. 105 s. *Quantitative Analysis* (3)—Three laboratory periods. Prerequisite, Chem. 101.

Quantitative analysis for premedical students with special reference to volumetric methods.

CHEM. 106 y. *Determinative Mineralogy and Assaying* (4)—One lecture and one laboratory period. Prerequisite, Chem. 101.

The more important minerals are identified by their characteristic physical and chemical properties. Assays of gold, silver, copper and lead are made.

CHEM. 107 y. *Quantitative Analysis* (8)—One lecture and three laboratory periods. Prerequisite, Chem. 101.

The principal operations of gravimetric analysis. Standardization of weights and apparatus used in chemical analysis. The principal operations of volumetric analysis. Study of indicators, typical volumetric and colormetric methods. Required of all students majoring in chemistry.

CHEM. 108 y. *Electro-Chemical Analysis* (2)—One lecture and one laboratory period. Prerequisite, Chem. 112.

For Advanced Undergraduates and Graduates

CHEM. 109 y. *Advanced Quantitative Analysis* (8)—Two lectures and two laboratory periods each semester. Prerequisites, Chem. 101; Chem. 107.

A continuation of course 107. (Wiley.)

C. Organic Chemistry

CHEM. 110 y. *Elementary Organic Chemistry* (8)—Two lectures and two laboratory periods each semester. Prerequisite, Chem. 101.

The course is devoted to a study of the behavior of fundamental types of organic compounds from the standpoint of the electronic conception of valence.

The course is so balanced as to meet the needs of students specializing in chemistry and also premedical students.

CHEM. 111 f. *Elementary Organic Chemistry* (3)—Two lectures and one laboratory period. Prerequisite, Chem. 101.

The course is particularly designed for students in Home Economics.

For Graduates

Organic Chemistry 110 is required of all students taking graduate work in Organic Chemistry.

CHEM. 202 y. *Advanced Organic Chemistry* (8)—Two lectures and assigned laboratory work each semester. Prerequisites, Chem. 110.

A more advanced treatment of the aliphatic and aromatic compounds, with special emphasis on the most recent theories of structure of organic compound in the light of our modern conception of matter. (Kharasch.)

CHEM. 203 s. *Identification of Organic Compounds* (5)—Prerequisite, Chem. 202.

A systematic study of methods of identifying organic compounds. A thorough review of the most important chemical and physical properties of the fundamental types of organic compounds; methods of separating organic mixtures, etc. Consent of Instructor. (Kharasch.)

CHEM. 204 f or s. *Elementary Organic Analysis. (Combustions)* (3)—One lecture and two laboratory periods. (Kharasch.)

CHEM. 205 y. *Organic Preparations* (4)—One lecture and three laboratory periods. Eight hours of organic preparations are essential before a student is eligible for research. The laboratory work consists in peparing compounds described in the literature. No text book. (Kharasch.)

CHEM. 206 s. *Color in Relation to Chemical Constitution* (1)—Prerequisites, Chem. 201.

A discussion of the theory of quinoidation, colors in dyestuffs, colors of second order, etc. (Kharasch.)

CHEM. 207 s. *Carbohydrates* (1)—Prerequisite, Chem. 110. (Kharasch.)

CHEM. 208. *Synthetic Drugs* (3)—One lecture and two laboratory periods. Prerequisite, Chem. 202. (Kharasch.)

CHEM. 209 s. *Selected Topics in Organic Chemistry* (2)—Two lectures.

Discussion of the theories of tautomerism, electromerism, molecular rearrangements, etc. Consent of Instructor. (Kharasch.)

CHEM. 210. *Research in Organic Chemistry*—(Kharasch.)

D. Physical Chemistry

CHEM. 112 y. *Elementary Physical Chemistry* (4 or 6)—Four credits for those specializing in chemistry; six for all others. Two lectures and one laboratory period each semester. Lectures only for chemists. Prerequisites, Chem. 101; Physics 101; Math. 101.

The course is intended to review the more theoretical points of inorganic chemistry from an advanced standpoint, to prepare the way for an extensive treatment of physical chemistry, and to furnish an elementary course in the subject for those who cannot pursue it farther.

CHEM. 113 s. *Elementary Colloid Chemistry* (2)—Two afternoons laboratory with conferences and lectures. Prerequisite, Chem. 112.

Required of those specializing in chemistry. Elective for others. The fundamental principles of colloid chemistry and its practical applications will be considered.

For Advanced Undergraduates and Graduates

CHEM. 114 f. *Physical Chemistry* (4)—Two lectures and two laboratory periods. Prerequisites, Chem. 107, Physics 102; Math. 105.

The gas laws, kinetic theory, liquids, solutions, elementary thermodynamics and thermo-chemistry, colloids, etc. (Haring.)

CHEM. 115 s. *Physical Chemistry* (4)—Two lectures and two laboratory periods. Prerequisite, Chem. 114.

A continuation of Chem. 114. Equilibrium, chemical kinetics electrolytic conductivity, electromotive chemistry, structure of matter, etc. (Haring.)

For Graduates

CHEM. 114-115 or its equivalent is prerequisite for all the following courses.

CHEM. 211 f. *Thermodynamics* (3)—Three lectures. Designed for graduate students who wish an advanced mathematical treatment of chemical phenomena. Mellor's Chemical Statics and Dynamics will be applied to Lewis' System of Physical Chemistry. (Gordon.)

CHEM. 212 y. *Colloid Chemistry* (6)—Two lectures and one laboratory period each semester.

Special topics will be taken up with emphasis on the most recent theories and research going on in colloid chemistry at the present time. (Gordon.)

CHEM. 213 f. *The Phase Rule* (2)—Two lectures.

A systematic study of heterogeneous equilibria. One, two and three component systems will be considered with practical applications of each. (Haring.)

CHEM. 214 s. *Structure of Matter* (2)—Two lectures.

Subjects considered will be radioactivity, isotopes, the Bohr and Lewis-Langmuir theories of atomic structure and allied topics. (Haring.)

CHEM. 215 f. *Catalysis* (2)—Two lectures.

This course will consist of lectures on the theory and use of catalysis in various reactions. (Haring.)

CHEM. 216 s. *Theory of Solutions* (2)—Two lectures. A detailed study will be made of the modern theory of ideal solutions, the theory of electrolytic dissociation, anomaly of strong electrolytes, etc. (Haring.)

CHEM. 217 y. *Research in Physical Chemistry* (12)—Open to students working for the higher degrees. Prerequisite, a bachelor's degree in chemistry or its equivalent. (Haring and Gordon.)

E. Agricultural and Food Chemistry

CHEM. 116 y. *General Agricultural Chemistry* (6)—One lecture and two laboratory periods each semester. Prerequisite, Chem. 101.

An intoductory survey of organic and inorganic chemistry and its application to plant and animal life.

The laboratory work in this course will be of a quantitative and synthetical nature, dealing as far as possible with agricultural material.

CHEM. 117 s. *The Chemistry of Foods* (3)—Two lectures and one laboratory period. Prerequisite, Chem. 101.

The purpose of this course is to present the principles of the chemistry of foods and nutrition with special reference to the fats, carbohydrates, proteins, enzymes, etc.

CHEM. 118 s. *Chemistry of Textiles* (3)—Two lectures and one laboratory period. Prerequisites, Chem. 101, Chem. 111.

A study of the principal textile fibres, their chemical and mechanical structure; chemical methods are given for identifying the various fibers, dyes and mordants.

For Advanced Undergraduates and Graduates

CHEM. 119 f. *General Physiological Chemistry* (4 or 6)—Two lectures and two laboratory periods. Prerequisite, Chem. 115 or its equivalent.

A study of the chemistry of the fats, carhobydrates, proteins and other compounds of biological importance, and the general chemistry of the metabolism of animals. This course is intended for students majoring in biological subjects, and as a prerequisite to certain advanced courses in this department. (Broughton.)

CHEM. 120 y. *Food Inspection and Analysis* (8)—Lectures and laboratory to be assigned. Prerequisite, Chem. 119, or acceptable courses in organic chemistry and quantitative analysis.

Lectures on the composition of foods, methods of analysis and the detection of adulteration in foods. Laboratory work includes the analysis of cereal-foods, the use of the microscope in the detection of adulterants in spices, the identification of added colors, the detection and determination of chemical food preservatives. Analysis of edible fats and oils, sugars and syrups, vinegars, flavoring extracts and beverages.

This course is designed to give preparation for the analytical work connected with the state control of the sale of foods.

CHEM. 121 f. *Dairy Chemistry* (3)—One lecture and two laboratory periods. Prerequisite, Chem. 116.

Lectures and assigned reading on the constituents of dairy products. The laboratory work is designed to teach the methods of analysis of milk and its products.

CHEM. 122 f. *Tissue Analysis* (3)—One lecture and two laboratory periods. Prerequisite, Chem. 116 or its equivalent.

A discussion and the application of the analytical methods used in determining the inorganic and organic plant constituents.

CHEM. 123 s. *Soils and Fertilizer Analysis* (3)—One lecture and two laboratory hours. Prerequisite, Chem. 116.

A complete analysis of soils and fertilizers with training in the more refined analytical procedures as applied.

CHEM. 124 s. *Chemistry of Nutrition* (4)—Two lectures and two three-hour laboratory periods each week. Prerequisites, Agricultural Chemistry 119, or its equivalent. (Broughton.)

Lectures on the chemistry of nutrition, laboratory utilization of food, determination of fuel value of food and the heat production of man under various conditions, metabolism, the effects on small animals of diets consisting of purified food constituents, and the effects of selected diets on the formation of waste products in the body.

For Graduates

CHEM. 218 f or s. *Special Problems* (4 to 8)—A total of eight credit hours may be obtained in this course by continuing the course for two semesters. Laboratory, library and conference work amounting to ten hours each week. Prerequisite, Chem. 119 and the consent of the instructor.

This course consists of studies of special methods, such as the separation of the fatty acids from a selected fat, the preparation of certain carbohydrates or amino acids, the determination of the distribution of nitrogen in a protein. The students will choose, with the advice of the instructor, the particular problem to be studied. (Broughton.)

CHEM. 219 f or s. *Research* (5 to 10)—Agricultural chemical problems will be assigned to graduate students who wish to gain an advanced degree. (Broughton.)

F. Industrial Chemistry

For Advanced Undergraduates and Graduates

CHEM. 125 f. *Industrial Chemistry* (3)—Three lectures. Prerequisites, Chem. 101; Chem. 103.

A descriptive study of the major chemical industries, with reference especially to the general principles involved, recent developments and future possibilities; factory inspection trips and reports.

CHEM. 126 f. *Industrial Chemistry Laboratory* (3)—One lecture. Two laboratory periods. Prerequisite, Chem. 124 or registration therein.

Preparation and purification of inorganic and organic substances of industrial importance, with accompanying library and patent studies.

CHEM. 127 s. *Engineering Chemistry* (3)—Three lectures. Prerequisites, Chem. 101; Chem. 103; Math. 105.

The basic scientific principles and unit processes of chemical engineering, the flow of fluids, heat transfer, mixing, drying, roasting, grinding, washing and sedimentation, filtration, evaporation, distillation and absorption; factory and research organization and management.

CHEM. 128 s. *Engineering Chemistry Laboratory* (3)—One lecture. Two laboratory periods. Prerequisite, Chem. 126 or registration therein.

Experimental study of the unit processes of chemical engineering.

CHEM. 129 y. *Engineering Chemistry* (2)—One lecture each semester. Prerequisite, Chem. 101.

A course for engineering students. Fuels and combustion, heat flow, flue gas analysis, boiler water, descriptions of illustrative chemical industries, unit processes of chemical engineering, chemical properties of engineering materials.

CHEM. 130 f. *Technology of Fuels and Power Plant Practice* (2)—Two lectures. Prerequisite, Chem. 123 or registration therein.

The chemistry of fuels and combustion and boiler room operation.

For Graduates

CHEM. 220 y. *Cellulose Products* (2)—Two lectures. Artificial silk, leather substitute, celluloid, smokeless powder, lacquers and enamels.

CHEM. 221 y. *Silica and Silicates* (2)—Two credits. Two lectures.

The manufacture of brick, and ceramics, glass, cement, sodium silicate, ultramarine blue, abrasives and diatomaceous earth products.

CHEM. 222 y. *Research in Industrial Chemistry* (12)—Prerequisite, graduate standing and the consent of the instructor.

The investigation of special problems in industrial chemistry, and the preparation of a thesis towards an advanced degree. (Calvert.)

CHEM. 223 y. *Chemistry Seminar* (2)—

During these periods there is a discussion of the latest bulletins and scientific papers on all phases of chemistry by the graduate students and chemistry staff. Required of seniors and graduates.

COMMERCE

(See under Economics and Business Administration and also special bulletin, School of Business Administration, Baltimore.)

COMPARATIVE LITERATURE

For Advanced Undergraduates and Graduates

The courses in Comparative Literature are, for the time being, under the direction of the Department of Modern Languages. They may be elected as partially satisfying major and minor requirements in this department. Comparative Literature 201 and 204 may also be counted toward a major or minor in English.

COMP. LIT. 201 y. *Introduction to Comparative Literature* (6)—Lectures, recitations and reports.

Survey of the background of European literature through a study in English translation of Greek, Latin, Biblical and medieval literature. Special emphasis on the development of the epic, tragedy, comedy and other typical forms of literary expression. The debt of modern literature to the Ancients is discussed and illustrated. (Zucker.)

COMP. LIT. 202 y. *Development of the European Drama* (6)—Lectures, recitations and collateral reading.

This course is devoted to a study of the origin of the theater in Greece and in mediaeval Europe. Representative Greek and Roman plays as well as dramas by Spanish, French, German and other continental authors are read in English translation. (Omitted, 1925-26.) (Zucker.)

COMP. LIT. 203 y. *Molière and the Development of Comedy* (6)—

Brief survey of the origin and history of comedy before Molière. Study of Molière's complete works, followed by the tracing of his influence on later writers. Knowledge of French required. (Zucker.)

COMP. LIT. 204 y. *Ibsen and His Influence on the Modern Drama* (4)

Rapid survey of European drama in the middle of the nineteenth century. Study of Ibsen's complete works in Archer's translation, followed by the reading of modern social and symbolical plays that show Iben's influence. (Zucker.)

DAIRY HUSBANDRY

D. H. 101 s. *Dairying* (3)—Two lectures and one laboratory period.

Origin, history, development and characteristics of the dairy breeds. Extent of the dairy business and value of products. Composition of milk and Babcock testing. A study of production and handling of milk and milk products on the farm and the care, feeding and management of the farm herd of dairy cattle.

D. H. 102 s. *Judging of Dairy Cattle and Breed Study* (2)—One lecture and one laboratory period. Junior year.

Practice in the selection of dairy animals for production and exhibition. The feeding, fitting and showing of dairy animals, systems of breeding and pedigree study. Trips to stock farms about the state will be taken in this course and such judging teams as may be chosen to represent the University will be selected from among those taking this course.

For Advanced Undergraduates and Graduates

D. H. 103 f. *Farm Dairying* (3)—Two lectures and one laboratory period.

The secretion of milk and factors effecting the same; how bacteria and dirt get in; how they may be kept out; straining and handling during milking; surface coolers and precooling; milk cooling tanks; washing and sterilizing dairy utensils; practical work in the production of milk of low bacteria and low sediment content; practice in the handling of

milking machines. Dairy barn arrangement and equipment and practices which influence quality in milk. Special problems will be assigned to graduate students taking this course.

D. H. 104 f. *Dairy Production and Barn Practices* (4)—Three lectures and one laboratory period. Junior year.

The care, feeding and management of dairy cattle, including selection of feeds; systems of herd feeding; feeding standards; silage; soiling crops and pasture; selection, care, feeding and management of the sire; dairy young stock and dairy herd development and management; method of keeping and forms for herd records; dairy cost accounts and barn practices which influence quantity in milk. Requirements for advanced registry; the management of long and short time tests; breed association rules; care and testing of samples; cow testing associations; bull associations. Paid supervisors at $3.00 per day are selected for work over week-ends from those taking this course. Special problems will be assigned to graduate students taking this course.

D. H. 105 y. *Dairy Manufactures* (6)—One lecture and two laboratory periods on successive days. Prerequisite, D. H. 101.

Manufacturing of butter, cheese, ice cream and preparation of culture buttermilks. Study of cream separation, pasteurization and processing of milk and cream. Plant management, storage of products and refrigeration.

D. H. 106 f. *Market Milk* (4)—Three lectures and one laboratory period.

A study of market milk conditions, including a history of the development of the industry up to the present highly specialized situation. The course will include production, transportation, processing, regulation, advertising and publicity, distribution and consumption of market fluid milk and cream, together with all incidental matters such as methods of buying and selling, standards of quality and methods of ascertaining same, milk ordinances and their enforcement, construction and utility of the various types of milk plants and country stations, etc. A rather detailed study of the situation in the three large milk sheds of Maryland will be made.

D. H. 107 s. *Advanced Testing* (4)—One lecture and two four-hour laboratory periods.

This course is designed to give the student a working knowledge and laboratory practice in dairy chemistry and analysis. Especially is it intended to show the relationship between the chemical and physical properties of milk and milk products, and the processes and problems existing in the manufacture of these products. Practice is given in examining dairy products for conformation to regulation under the food laws, detection of watering, detection of preservatives and added colors and the detection of adulterations. Quality grading systems will be investigated and discussed from the chemical standpoint. Students showing sufficient progress may be given an opportunity to do original work of practical value.

D. H. 108 y. *Seminar*—One or more credits. Senior year.

Each student is required to present a paper covering in detail some subject of interest to the industry. Reports are also made on current bulletins and scientific papers in Dairy Production, Manufactures and Market Milk.

D. H. 109 y. *Thesis* (4)—Senior year.

Students are given opportunities to conduct investigational work, either in collecting information or original research in Dairy Production, Mnaufactures and Market Milk.

D. H. 110 s. *Marketing and Grading of Dairy Products* (3)—Two lectures and one laboratory. Elective, Junior or Senior year.

History, development and organization of dairy marketing from the standpoint of producer, dealer and consumer. Market grades and judging of dairy products.

D. H. 111 f. *Manufacture of Concentrated and Powdered Milks* (2)—One or two lectures. Senior year.

An elective course of primary interest to students specializing in manufactured products, dealing with evaporated milk, condensed milk, concentrated milks and milk powders. Work will include a history of the industry, distribution, location and construction of factories, a study of the manufacturing processes and the finished product, together with defects of the products and their causes, and methods of standardizing as well as legal requirements pertaining to these products.

For Graduates

D. H. 201 y. *Research* (8)—

With the approval of the head of the department, students will be allowed to work on any problem in dairy production, manufactures or market milk they may choose, or be given a list of problems from which to select a research project.

In so far as schedules permit, students will be encouraged to visit the U. S. Dairy Division Laboratories and become acquainted with the dairy research problems in process and the methods of attack. This acquaints the student with the broad phases of research in dairy production and market milk.

D. H. 202. *Seminar*—Credits according to work done during the year.

ECONOMICS AND BUSINESS ADMINISTRATION

(See also special bulletin, School of Business Administration, Baltimore.)

Soc. Sci. 101 y. *Elements of Social Science* (6)—Credit not given unless the full-year course is completed. An orientation course in Social Science. Open to Freshmen and Sophomores. If taken by Juniors or Seniors only two credits per semester will be granted.

This course deals with the basis and nature of society; the process of social evolution; the economic organization of society; the rise of government and law as institutions; and the nature and extent of social

control of man's activities. It forms the foundation upon which the principles of economics, the principles of sociology and the science of government are based.

ECON. 102 f. *Economic Geography and Industry* (3)—Three lectures.

An examination of the principal geographical phenomena which form the basis of the economic life of man. The principal natural resources utilized in modern civilization; their distribution upon the surface of the earth in characteristic regions, the development of those regions industrially; routes of trade between the major producing regions.

ECON. 103 f. *Economic History of England* (3)—Three lectures.

A study of the general development of agriculture, industry, and commerce in England from the tenth century to the present time. The course is designed to show the gradual evolution of an industrial society, and to trace those changes by which modern England has attained her present economic position.

ECON. 104 s. *Economic History of the United States* (3)—Three lectures.

Attention is given to colonial agriculture, industry and trade as an introduction to the course. After 1789 the main lines of study are the banking, transportation and tariff history of the United States, with special attention to the development of the natural resources, the rise of manufactures, and the expansion of corporate methods in industry and trade.

ECON 105 f. *Principles of Economics* (3)—Three lectures and recitations. Prerequisite, Soc. Sci. 101.

A study of the general principles of economics; production, exchange, distribution and consumption of wealth; the monetary system; public finance; land and labor problems; monopolies, taxation and other similar topics.

ECON. 105 A s. *Principles of Economics* (3)—Three lectures and recitations. The general principles of economics offered for the convenience of Agricultural students, with or without the prerequisite of Social Science 101. Open to other students as an elective.

ECON. 105 E f. *Principles of Economics* (3)—Three lectures and recitations. The general principles of economics adapted to the needs of engineering students, with or without the prerequisite of Social Science 101.

ECON. 106 s. *Practical Economic Problems* (3)—Three lectures or recitations.

A continuation of Economics 105, with emphasis on the study of modern economic problems. Among the problems discussed are the following: Foreign commerce, the business cycle, trusts, labor problems, railroads, banking reform, taxation, public ownership, socialism and social reform.

For Advanced Undergraduates and Graduates

ECON. 107 f. *The Mathematical Theory of Investment* (3)—Three lectures or recitations. To be followed by Econ. 108.

The application of mathematics to financial transactions; compound interest and discount, construction and use of interest tables, sinking funds, annuities, depreciation, valuation and amortization of securities, building and loan associations, life insurance, etc. (Schad.)

ECON. 108 s. *Elements of Statistics* (3)—Three lectures or recitations. A continuation of Econ. 107. Prerequisite, Econ. 107.

A study of the fundamental principles used in statistical investigation. (Schad.)

ECON. 110 f. *Money and Banking* (3)—Three lectures and recitations. Prerequisite, Soc. Sci. 101.

A study of the nature and functions of money; standards of value and prices; credit; bank clearings and exchanges; history of American and foreign banking, the stock exchange and the money market. (Newman.)

ECON. 111 s. *Public Finance* (3)—Three lectures and recitations. Prerequisite, Soc. Sci. 101.

A study of the public expenditures, receipts, indebtedness and financial administration, theories of public expenditures; theories of taxation; the growth and nature of public credit; the forms of public debts; federal, state and municipal budgets. (Newman.)

ECON. 115 f. *Business Organization* (3)—Three lectures and recitations. Prerequisite, Soc. Sci. 101.

An examination of the modern forms of organization especially as applied to the large-scale business, associations, combinations, anti-trust legislation and its interpretation. The problem of organization from the view-point of the business man and of society. (Stevens.)

ECON. 116 s. *Corporation Finance* (3)—Three lectures and recitations. Prerequisite, Soc. Sci. 101.

Methods employed in the promotion, capitalization, financial management, consolidation and reorganization of business corporations. (Stevens.)

ECON. 118 y. *Business Law* (6)—Three lectures and recitations each semester.

The aim of this course is to train students for practical business affairs by giving the legal information necessary to prevent common business errors. The following are some of the phases of the work: Requisites and forms of contracts and remedies for their breach; sales, passages of title, warranties; negotiable instruments, assignment and liability of signers; agency, title, abstracts, mortgages, leases, etc. (Shepherd.)

ECON. 120 y. *General Accountancy* (4)—Four credits. Two lectures with problems each semester.

The fundamental principles of single and double entry book-keeping; subsidary records and controlling accounts; partnership accounts and adjustments; corporation accounts; types of stocks and bonds; sinking funds; voucher systems; manufacturing accounts. Preparation of balance sheet. (Stevens.)

ECON. 121 s. *Railway Transportation* (3)—Three lectures or recitations. Follows Econ. 105 E. Prerequisites, Econ. 105 or 105 A or 105 E.

Development of the railway net of the United States; railroad finance and organization; problems of railway maintenance and method of conducting transportation; theory of railway rates; personal and local discrimination; geographical location and market competition; railway agreements; regulation by State and Federal governments; recent legislation. (Newman.)

ECON. 122 s. *Public Utilities* (3)—Three lectures or recitations. Prerequisite, Econ. 105 or 105 A or 105 E.

An examination of the fundamental basis for the concept of certain forms of business as peculiarly essential to the public welfare. Problems of rates, management and finance of corporations engaged supplying electricity, gas, street railway, telegraph and telephone service to the public. Government regulation and supervision of rates and finance. (Newman.)

(For description of the following four courses, see Agricultural Economics, p ....)

A. E. 101 f. *Agricultural Economics* (3).
A. E. 102 s. *The Marketing of Farm Products* (3).
A. E. 103 f. *Co-operation in Agriculture* (3).
A. E. 104 s. *Transportation of Farm Products* (3).

For Graduates

ECON. 201 y. *History of Economic Theory* (4)—Two lectures and assignments each semester. Prerequisite, Econ. 105.

History of economic doctrines and theories from the eighteenth century to the modern period, with special reference to the theories of value and distribution. (Omitted, 1925-1926.)

ECON. 220 y. *The Problems of Labor and Employment* (4)—Two lectures and assignments each semester. Prerequisites, general knowledge of the field of Sociology and Economics.

A study of labor from the point of view of the employer, the employee and the public; the conflicts between labor and capital; methods employed to obtain industrial peace. (Diamond.)

EDUCATION

A. History and Principles

ED. 100 y. *Educational Guidance* (2)—One lecture a week.

This course is designed to assist students in adjusting themselves to the demands and problems of college and professional life and to guide them in the selection of college work during subsequent years. Among the topics discussed are the following: student finances; student welfare; intellectual ideals; recreation and athletics; general reading; student organization; student government; the curriculum; the election of courses and the selection of extra curricular activities.

ED. 101 f. *Public Education in the United States* (2)—Required of all sophomores in Education.

A study of the theory and practice of public education in the United States as it has been developed and is now organized. The emphasis will be on elementary education and secondary education, with proportionate treatment of vocational education and relations of elementary and secondary education to higher education.

ED. 102 s. *Educational Hygiene* (2)—Open to sophomores and juniors. Required of sophomores in Education.

Elements of general, individual and group hygiene; causes of health and disease; habits; knowledge and ideals of health; health as an objective of education.

ED. 103 f. *Educational Psychology* (3)—Open to juniors and seniors. Required of all juniors in Education.

General characteristics and use of original tendencies; principles of mental development; the laws and methods of learning; experiments in rate of improvement; permanence and efficiency; causes and nature of individual differences; principles underlying mental tests; principles which should govern school practices.

ED. 104 s. *Technic of Teaching* (3)—Three lectures and one laboratory periods. Open to juniors and seniors. Required of juniors in Education. Prerequisite, Ed. 103.

The nature of educational objectives; steps of the lesson plan; observation and critiques; survey of teaching methods; type lessons; lesson planning; class management.

For Advanced Undergraduates and Graduates

ED. 105 s. *Principles of Secondary Education* (3)—Required of all seniors in Education.

Evolution of secondary education; articulation of the secondary school with the elementary school, college, technical school, and with the community and the home; the junior high school; programs of study and the reconstruction of curricula; the teaching staff and student activities.

ED. 106 f. *History of Education* (3)—Senior Elective.

History of the evolution of educational theory, institutions and practices. Emphasis is upon the modern period. (Small.)

ED. 107 f. *Educational Sociology* (3)—Three lectures a week.

Education and nationalism; the sociological foundations of education; the major educational objectives; the function of educational institutions; the program of studies; objectives of the school subjects; group needs and demands; methods of determining educational objectives. (Cotterman.)

ED. 108 s. *Advanced Educational Psychology* (3)—Prerequisite, Ed. 103 and Ed. 104. The latter may be taken concurrently with Ed. 108.

Principles of genetic psychology; nature and development of the human organism; development and control of instincts. Methods of testing intelligence; group and individual differences and their relations

to educational practice. Methods of measuring rate of learning; study of typical learning experiments. (Browning)

ED. 109 f. *Educational Measurements* (3)—Prerequisite, Ed. 103 and Ed. 104.

A study of typical educational problems involving educational scales and standard tests. Nature of tests, methods of use, analysis of results and practical applications in educational procedure. Emphasis will be upon tests for high school subjects. (Browning)

ED. 110 s. *Theory of Vocational Education* (3)—Senior Elective.

Evolution of vocational education, educational and social forces behind the movement; terminology; types of vocational schools; technical high schools; vocational education for girls; vocational education in rural communities; recent legislation.

For Graduates

ED. 201 y. *Seminar in Education* (6)—(The course is organized in semester units.)

Problems in educational organization and administration. Study of current literature; individual problems. (Small.)

ED. 202 f. *College Teaching* (3)—Three lectures a week.

Analysis of the work of the college teacher; objectives; nature of subject matter; nature of learning; characteristics of college students; methods of college teachers; measuring results; extra course duties; problems; investigations; reports (Cotterman.)

ED. 204 s. *Chemical Education* (2)—Two lectures a week. Open to graduate students majoring in chemistry. Prerequisites, Ed. 103 and Ed. 202.

The latest developments in the field of chemical education dealing with methods, laboratory design, equipment, etc. Required of all students qualifying for college chemistry teaching. (Gordon.)

B. Methods in Arts and Science Subjects (High School)

ED. 110 y. *English in Secondary Schools* (6)—Special methods and supervised teaching. Required of seniors preparing to teach English. Prerequisite, Ed. 104.

Objectives in English in the different types of secondary schools; selection of subject matter; State requirements and State courses of study; evaluation of the course of study in terms of modern practice and group needs; the organization of the materials; lesson plans; measuring results; observations; class teaching; critiques.

ED. 111 y. *History and Civics in Secondary Schools* (6)—Special methods and supervised teaching. Required of seniors preparing to teach history. Prerequisite, Ed. 104.

Objectives of history and civics in secondary schools; selection of subject matter; parallel reading; State requirements and State courses of study; the development of civics from the community point of view; reference books, maps, charts and other auxiliary materials; the organization of materials; lesson plans; measuring results; observations; class teaching; critiques.

ED. 112 y. *Foreign Language in Secondary Schools* (6)—Special methods and supervised teaching. Required of seniors preparing to teach foreign language. Prerequisite, Ed. 104.

Objectives of foreign language in secondary schools; selection of subject matter; State requirements and State courses of study; the organization of material for teaching; lesson plans; special devices and auxiliary materials; observation; class teaching; critiques.

ED. 113 y. *Mathematics in Secondary Schools* (6)—Special methods and supervised teaching. Required of seniors preparing to teach mathematics. Prerequisite, Ed. 104.

Objectives of mathematics in secondary schools; selection of subject matter; State requirements and State courses of study; proposed reorganizations; lesson plans; measuring results; observations; class teaching; critiques.

ED. 114 y. *Science in Secondary Schools* (6)—Special methods and supervised teaching. Required of seniors preparing to teach science. Prerequisite, Ed. 104.

Objectives of science in secondary schools; selection of subject matter; State requirements and State courses of study; sources of materials; the organization of materials for instruction; methods of the class period; lesson plans; the preparation and organization of laboratory instruction; note books, observation; class teaching; critiques.

ENGINEERING

Civil Engineering

C. E. 101 f. *Elements of Railroads* (3)—Two lectures and one laboratory period. Prerequisite, Surv. 102. Required of juniors in Civil Engineering.

The theory and practice of railroad surveys, alignment and earthwork. Preliminary steps toward complete plans for a short railroad.

C. E. 102 s. *Elements of Design of Steel Structures* (5)—Four letters and one laboratory period. Prerequisite, Mech. 101, 102. Required of juniors in Civil Engineering.

Design of steel beams and columns. Analysis of stresses in roof trusses, plate girders, bridge trusses and steel buildings. The preliminary steps toward complete design of these structures.

C. E. 103 y. *Highways* (8)—Three lectures and one laboratory period first semester. Two lectures and two laboratory period second semester. Prerequisite, Surv. 103, Mech. 101. Required of seniors in Civil Engineering.

Location, construction and maintenance of roads and pavements. Highway contracts and specifications, estimates and costs, highway work, highway legislation, highway economics and highway transportation.

The course will include, in addition to lecture and class room work, preparation of plans and specifications for special projects connected with highways.

C. E. 104 y. *Design of Masonry Structures* (8)—Three lectures and one laboratory period. Prerequisite, Mech. 101. Required of seniors in Civil Engineering.

The theory and practice of the design of structures of stone and of reinforced concrete; with applications to beams, slabs, columns, retaining walls, dams, arches and bridges. The preparation of plans and bills of material.

C. E. 105 y. *Design of Steel Structures* (6)—Two lectures and one laboratory period. Prerequisite, C. E. 102. Required of seniors in Civil Engineering.

The complete design and detailing of steel structures, a continuation of C. E. 102.

C. E. 106 y. *Sanitation* (6)—Three lectures. Prerequisite, Mech. 101, 102. Required of seniors in Civil Engineering.

Methods of estimating consumption and designing water supply and sewerage systems.

C. E. 107 y. *Railroads* (2)—One laboratory period. Prerequisite, C. E. 101. Alternative for seniors in Civil Engineering.

The theory and practice of railroad design, construction, maintenance and economics; a continuation of C. E. 101. Field and drafting room work consists of a reconnoissance and survey of a short railroad and preparation of the map, profiles and estimates.

C. E. 108 y. *Sanitary Science* (*Public Health*) (2)—One laboratory period. To be taken co-ordinately with C. E. 106. Alternative for seniors in Civil Engineering.

State and municipal sanitary laws, organization and functions of state and municipal health departments, public health surveys. Also in co-ordination with C. E. 106, complete plans are prepared for water supply and sewerage disposal systems for a given community.

C. E. 109 y. *Drainage and Irrigation* (2)—One laboratory period. Prerequisite, Mech. 101, 102. Alternative for seniors in Civil Engineering.

The application of engineering principles to the design and construction of drainage and irrigation works. Field and drafting room work consists of surveying, designing and mapping of a proposed drainage project.

Drafting

Dr. 101 y. *Engineering Drafting* (2)—One laboratory period. Required of all freshmen in Engineering.

Freehand Drawing—Lettering, exercises in sketching of technical illustrations and objects, proportion and comparative measurements.

Mechanical Drawing—Use of instruments, projections and working drawings, drawing to scale in pencil and in ink, topographic drawing, tracing and blue printing.

Dr. 102 y. *Descriptive Geometry* (4)—Two laboratory periods. Prerequisite, Dr. 101. Required of all sophomores in Engineering.

Orthographic projection as applied to the solution of problems relating to the point, line and plane, intersection of planes with solids and development. Generation of surfaces; planes, tangent and normal to surfaces; intersection and development of curved surfaces. Shades and shadows, perspective, map projection.

Electrical Engineering

E. E. 101 y. *Direct Currents* (10)—Three lectures and two laboratory periods. Prerequisite, Phys. 101, 102.

Principles of design, construction and operation of direct current generators and motors and direct current control apparatus. The construction, characteristics and operation of primary and secondary batteries and the auxiliary control equipment.

Experiments on the calibration of laboratory instruments, the manipulation of precision instruments, battery characteristics, and the operation and characteristics of direct current generators and motors.

E. E. 102 y. *Alternating Currents* (10)—Three lectures and two laboratory periods. Prerequisite, E. E. 101.

Analytical and graphical solution of problems on single phase and polyphase circuits; construction, characteristics and operation of all types of alternating current generators and motors; switchboard appliances, the use of the oscillograph; alternating current power measurements.

E. E. 103 y. *Electric Machine Design* (3)—One laboratory period first semester; two laboratory periods second semester. Prerequisite, E. E. 101, M. E. 101 and to take concurrently E. E. 102.

Materials of construction and design of the electric and magnetic circuits of direct current generators and motors, principles of design of the electric and magnetic circuits of alternating current generators, motors and transformers.

E. E. 104 f. *Electric Railways* (2)—Two lectures. Prerequisite, E. E. 101, and to take concurrently E. E. 102.

Traffic studies, train schedules, motor characteristics and the development of speed-distance and power-time curves, systems of control, motors and other railway equipment, electrification system for electric railways, including generating apparatus, transmission lines, substations and distribution of electrical energy for car operation; electrification of steam roads and application of signal systems, problems in operation from the selection of proper car equipment to the substation apparatus.

E. E. 105 s. *Telephones and Telegraphs* (4)—Three lectures and one laboratory period. Prerequisite, E. E. 101, and to take concurrently E. E. 102.

History and principles of magneto telephone and variable resistance transmitter, carbon transmitter, telephone receiver, induction coils and calling equipment. These components of the telephone then are studied

as a complete unit in the local battery and common battery telephones. Magneto and common battery switchboards used in telephone exchanges, automatic telephones, and the operation of simple, duplex and quadruplex telegraphy.

In the laboratory the units are assembled and operated.

E . E. 106 f. *Radio Telegraphy and Telephony* (4)—Two lectures and two laboratory periods. Prerequisite, E. E. 101, and to take concurrently E. E. 102.

Principles of radio telegraphy and telephony, design, construction and operation of transmitting and receiving apparatus and special study of the use of the vacuum tube for short wave transmitting and receiving. Experiments include radio frequency measurements and the testing of various types of receiving circuits.

E. E. 107 s. *Illumination* (2)—Two lectures. Prerequisite, E. E. 101, and to take concurrently E. E. 102.

Series systems of distribution, methods of street lighting, calculation of voltage drop, regulation, weights of wire and methods of feeding parallel systems, principles and units used in illumination problems, lamps and reflectors, candle power measurements of lamps, measurement of illumination intensities and calculations for illumination of laboratories and class rooms.

E. E. 108 s. *Electric Power Transmission* (2)—Two lectures. Prerequisite, E. E. 103 and to take concurrently E. E. 102.

Survey of the electrical equipment required in central stations and substations, transmission of electric power, practical problems illustrating the principles of installation and operation of power machinery.

General Engineering

ENGR. 101 y. *Prime Movers* (4)—Three lectures first semester, one lecture second semester. Prerequisite, Math. 106. Required of all juniors in Engineering.

Salient features of the operation of steam, gas, hydraulic and electric prime movers and pumps. Comparison of types of each, methods of assembling or setting up in place for operation. Service tests.

ENGR. 102 y. *Engineering Geology* (2)—One laboratory period. Lectures and field trips. Required of all juniors in Engineering.

Study of common rocks and minerals, geologic processes and conditions affecting problems of water supply, bridge, railroad and highway construction, dams and reservoirs, tunnels, canals, river and harbor improvements, irrigation works and rock excavation.

ENGR. 103 f. *Engineering Jurisprudence* (1)—Seminar course. Required of all seniors in Engineering.

A study of the fundamental principles of law relating to business and to engineering; including contracts, agency, sales, negotiable instruments, corporations and common carriers. These principles are then applied to the analysis of general and technical clauses in engineering contracts and specifications.

ENGR. 104 s. *Public Utilities* (1)—One lecture. Prerequisite, Econ. 105. Required of all seniors in Engineering.

The development of public utilities, franchises, functions, methods of financing and control of public utilities. Service standards and their attainment in electric, gas, water, railway, and other utilities. The principles that have been adopted by the courts and public service commissions for the evaluation of public utilities for rate making and other purposes.

IND. CHEM. 104 y. *Engineering Chemistry* (2)—One laboratory period second semester. Prerequisite, Math. 106. Required of all seniors in Engineering.

The value of fuels, coal, oils and gases, from their chemical analysis. The significance of flue gas analysis. Comparison of specifications, particularly chemical requirements, of various states, manufacturers and large corporations for fuels, lubricating oils and paints.

Mechanics

MECH. 101 y. *Engineering Mechanics* (7)—Three lectures and one laboratory period first semester; two lectures and one laboratory period second semester. Prerequisite, Math. 106. Required of all juniors in Engineering.

Applied Mechanics—The analytical study of statics dealing with the composition and resolution of forces, moments and couples, machines and the laws of friction, dynamics, work, energy and the strength of materials.

Graphic Statics—The graphic solution of problems in mechanics, center of gravity, moments of inertia and determination of stresses in frame structures.

Elements of Hydraulics—Flow of water in pipes, through orifices and in open channels. Determination of the co-efficient of discharge, velocity and contraction in pipes and orifices.

MECH. 102 s. *Materials of Engineering* (2)—Two laboratory periods. Prerequisite, to take concurrently Mech. 101. Required of all juniors in Engineering.

The composition, manufacture and properties of the principal materials used in engineering and of the conditions that influence their physical characteristics. The interpretation of specifications and of standard tests. Laboratory work in the testing of steel, wrought iron, timber, brick, cement and concrete.

MECH. 103 s. *Kinematics* (5)—Three lectures and two laboratory periods. Prerequisite, Math. 106. Required of juniors in Mechanical Engineering.

The theory and practice of the kinematics of machinery, as applied to ropes, belts, chains, gears and gear teeth, wheels in trains, epicyclic trains, cams, linkwork, parallel motions. Miscellaneous machanisms and aggregate combinations.

MECH. 104 f. *Thermodynamics* (3)—Three lectures. Prerequisites, Phys. 101 and 102, Eng. 101. Required of seniors in Mechanical and Electrical Engineering.

MECH. 105 s. *Thermodynamics* (3)—Three lectures. Prerequisite, Physics 101-102, Engr. 101. Required of seniors in Mechanical Engineering.

Thermodynamics as applied to properties of gases, cycles of heat engines using gases. Properties of vapors. Entropy. The internal combustion engine. The steam turbine. Flow of fluids, and the application of thermodynamics to compressed air and refrigerating machinery.

Mechanical Engineering

M. E. 101 f. *Elements of Machine Design* (1)—One laboratory period. Prerequisite, Math. 106. Required of juniors in Electrical Engineering.

Empirical design of machine parts.

M. E. 102 f. *Elements of Machine Design* (5)—Three lectures and two laboratory periods. Prerequisite, Math. 106. Required of juniors in Mechanical Engineering.

The application of the principles involved in determining the proportions and forms of machine parts. The design of bolts, screws, shafting and gears.

M. E. 103 y. *Design of Prime Movers* (6)—Two lectures and one laboratory period first semester; two lectures and one laboratory period second semester. Prerequisite, M. E. 102 and Engr. 101. Required of seniors in Mechanical Engineering.

Analysis of the stresses in gas and steam engines. Proportioning the essential parts and estimating the cost of each. The steam boiler; its design and cost.

M. E. 104 s. *Design of Power Plants* (3)—Two lectures and one laboratory period. Prerequisites, Engr. 101, Mech. 104, M. E. 102. Required of seniors in Mechanical Engineering.

The design of a complete power plant, including the layout of building and installation of equipment. The selection of types and capacities of the various units required.

M. E. 105 f. *Design of Pumping Machinery* (3)—One lecture and one laboratory period. Prerequisite, M. E. 102 and Mech. 101, 102. Required of seniors in Mechanical Engineering.

Elementary design of double acting steam pumps and centrifugal pumps. The air lift and the hydraulic ram.

M. E. 106 s. *Engineering Finance* (2)—Two lectures. Required of seniors in Mechanical Engineering.

Financial problems of the engineer. Cost segregation and cost analysis. Basis of price and rates. Fixed charges and operating costs. Replacement cost. Depreciation. Maintenance. Taxes and insurance. Unit cost determination. Determination of size of system for best financial efficiency.

M. E. 107 y. *Mechanical Laboratory* (2)—One laboratory period. Prerequisites, Engr. 101, 102; Mech. 101, 102. Required of seniors in Mechanical Engineering.

Calibration of instruments, gauges, indicator springs, planimeters, steam, gas and water meters.

Indicated and brake horsepower of steam and internal combustion engines, setting of plain valves, corliss valves. Tests for economy and capacity of boilers, engines, turbines. Pumps and other prime movers. Feed water heaters, condensers; B. T. U. analysis of solid, gaseous and liquid fuels and other complete power plant tests.

M. E. 108 f. *Heating and Ventilation* (2)—Two lectures. Prerequisites, Engr. 101, and Mech. 101, 102. Required of seniors in Mechanical Engineering.

The principles and methods of construction in use in various systems of heating and ventilating; the design, erection and operation of heating plants.

Shop

SHOP 101 y. *Shop and Forge Practice* (2)—One laboratory period. Required of all freshmen in Engineering.

The use and care of wood working tools, exercise in sawing, planing, mortising, tenoning and laying out work from blueprints. Principles of pattern making with sufficient foundry practice to demonstrate the uses of pattern making. Forging of iron and steel, welding and making of steel tools.

SHOP 102 f. *Machine Shop Practice* (1)—One laboratory period. Prerequisite, Shop 101. Required of all sophomores in Engineering.

SHOP 103 s. *Machine Shop Practice* (2)—Two laboratory periods. Prerequisite, Shop 102. Required of sophomores in Mechanical and Electrical Engineering.

Study and practice with various machines used in machine shops, principles of turning, planing, drilling, screw cutting and filing.

SHOP 104 s. *Foundry Practice* (1)—One laboratory period. Prerequisite, Shop 103. Required of juniors in Mechanical Engineering.

Molding in brass and iron. Core making. The cupola and its managements. Lectures on selection of iron by fracture, fuels and the mixing and melting of metals.

Surveying

SURV. 101 f. *Plane Surveying* (1)—Lecture and laboratory work Prerequisite, Math. 101. Required of all sophomores in Engineering.

SURV. 102 s. *Plane Surveying* (2)—Lecture and laboratory work. Prerequisite, Surv. 101. Required of sophomores in Civil Engineering.

The theory and practice of plane surveying; including the use and adjustment of the transit, level, plane table and minor surveying instruments. Solution of practical problems in giving lines and grades for buildings, shafting and foundations, and in laying out curves. The computation of area and of earthwork, and the principles of plan and map making and map reading.

SURV. 103 f. *Advanced Surveying* (3)—One lecture and two laboratory periods. Prerequisite, Surv. 101-101. Required of juniors in Civil Engineering.

Practical astronomy and geodetic surveying. The determination of latitude, longitude and azimuth by stellar and by solar observations. Base line measurement and precise triangulation. City surveying. Hydrographic surveying.

ENGLISH LANGUAGE AND LITERATURE

ENG. 101 y. *Composition and Rhetoric* (6)—Freshman year. Prerequisite, three units of high school English. Required of all four-year students.

Parts, principles and conventions of effective thought communication. Reading, study and analysis of standard contemporary prose specimens. Original exercises and themes.

ENG. 102 y. *Elements of Literature* (6)—Three lectures. Prerequisite, three units of high school English.

Examination of the principles of literary form. Study and interpretation of selected English and American classics.

ENG. 103 f. *Advanced Composition and Rhetoric* (2)—Prerequisite, Eng. 101. Optional with Eng. 105-106 as a requirement for all students whose major is English.

Study and analysis of the best scientific essays as a basis of class papers.

ENG. 104s. *Advanced Composition and Rhetoric* (2)—Continuation of Eng. 103. Prerequisite, Eng. 103.

ENG. 105 f. *Expository Writing* (2)—Prerequisite, Eng. 101. Optional with Eng. 103-104 as a requirement for all students whose major is English.

Study of the principles of exposition. Analysis and interpretation of material bearing upon scientific matter. Themes, papers and reports.

ENG. 106 s. *Expository Writing* (2).

Continuation of Eng. 105. Prerequisite, Eng. 105.

ENG. 107 f. *History of English Literature* (3)—Three lectures, Prerequisite, Eng. 101. Required of all students whose major is English.

A general survey, with extensive reading and class papers.

ENG. 108 s. *History of English Literature* (3).

Continuation of Eng. 107. Prerequisite Eng. 101.

ENG. 109 f. *American Literature* (by types) (3)—Three lectures. Prerequisite, Junior standing.

Lectures on the development of American literary types. Reports on assigned topics. Term themes. Special attention will be paid to the growth in America of lyric poetry, epic poetry, the drama, the ballad, the historical account, oration, biography, letters, essays, novel and short story.

ENG. 110 s. *American Literature* (3).

Continuation of Eng. 109. Prerequisite, Junior standing.

ENG. 111 f. *Modern Poets* (3)—Three lectures. Prerequisite, Eng. 101.

English and American poets of the latter part of the Nineteenth and of the Twentieth Century. (Omitted in 1925-1926.)

ENG. 112 s. *Modern Poets* (3).

Continuation of Eng. 115. Prerequisite, Eng. 101. (Omitted in 1925-1926.)

ENG. 113 f. *The Drama* (3)—Prerequisite, Junior standing.

A study of successful plays in the development of British drama before 1890. Reports and term themes.

ENG. 114 s. *Drama* (3)—Continuation of Eng. 113. Prerequisite, Junior standing.

A rapid survey of the development of American drama before 1890. The reading and contemporary English and American plays. Reports and term themes.

ENG. 115 f. *Shakespeare* (3)—Three lectures. Prerequisite, Eng. 101.

An intensive study of selected plays.

ENG. 116 s. *Shakespeare* (3).

Continuation of Eng. 115. Prerequisite, Eng. 101.

ENG. 117 f. *Business English* (2)—Two lectures. Prerequisite, Eng. 101.

This course develops the best methods of effective expression, both oral and written, used in business relations.

ENG. 118 s. *Business English* (2).

Continuation of Eng. 117. Prerequisites, Eng. 101 and 117.

For Advanced Undergraduates and Graduates

ENG. 119 y. *Anglo-Saxon and Middle English* (6)—Required of all students whose major is English.

A study of Anglo-Saxon (Old English) grammar and literature. Lectures on the principles of comparative philology and phonetics. Beowulf through 1500 lines. The language and authorship of the Middle English period, ending with Chaucer. (House.)

ENG. 122 f. *The Novel* (2)—Two lectures.

Lectures on the principles of narrative structure and style. Class reviews of selected novels, chiefly from English and American sources.

ENG. 123 s. *The Novel* (2).

Continuation of Eng. 122. (House.)

ENG. 124 f. *English and American Essays* (2)—Two lectures.

A study of the philosophical and critical essays of England and America: Bacon, Lamb, Macaulay, Carlyle, Ruskin, Emerson, Chesterton. (House.) (Omitted in 1925-1926.)

ENG. 125 s. *Authorship* (2)—Two lectures. Admission to class on recommendation of instructor.

Practice in the making of literature of various types; verse, essay, fiction, drama. (House.)

ENG. 126 f. *Victorian Poets* (2).

Studies in the poetry of Tennyson, Browning, Arnold, Swinburne and others.

ENG. 127 s. *Victorian Poets* (2).

Continuation of Eng. 126.

ENG. 129 f or s. *College Grammar* (2). The course is completed each semester.

Studies in the descriptive grammar of modern English, with some account of the history of forms. (House.)

For Graduates

ENG. 201. *Seminar*—Credit proportioned to the amount of work and ends accomplished. (House.)

Original research and the preparation of dissertations looking toward advanced degrees.

ENTOMOLOGY AND BEE CULTURE

ENT. 101 s. *General Entomology* (3)—Two lectures and one laboratory.

General principles of structural and systematic entomology. The relation of insects to the past experience and the future activities of the student. Lectures, recitations, laboratory work and collection trips.

ENT. 102 y. *Advanced Entomology* (4)—Two lectures and two laboratory periods. Prerequisite, Ent. 101.

Insect morphology and biology, with special relation to applied entomology. The theory and practice of insect control.

ENT. 104 f. *Systematic Entomology* (2)—Two laboratory periods. Prerequisite Ent. 101.

The student selects some group in which he is particularly interested and makes a detailed study of it. The course requires considerable field work and is supplemented by laboratory periods and frequent conferences.

ENT. 105 y. *Thesis* (4).

The intensive investigation of some zoological subject, the results of which are incorporated in a paper which is submitted as part of the requirement for graduation.

ENT. 106 s. *Insecticides and Their Application* (2)—One lecture and one laboratory period.

The principles of insecticides, their chemistry, preparation and application; construction, care and use of spray and dusting machinery; fumigation, methods and apparatus in mechanical control.

ENT. 107 f. *Medical Entomology* (2)—Two lectures.

The relation of animals to disease, directly and as vectors of pathogenic organisms; the control of pests of man.

ENT. 108 y. *Scientific Delineation and Preparation* (1)—One laboratory period.

Photography, photomicrography, drawing freehand and with camera lucida, lantern-slide making, optical projection, preparation of exhibit and museum material, with especial reference to entomology.

ENT. 109 s. *Horticultural Entomology* (3)—Two lectures and one laboratory period. Prerequisite Ent. 101.

Lectures, laboratory and field work on the morphology, biology and control of insect pests of horticultural crops.

For Advanced Undergraduates and Graduates

ENT. 103 y. *Economic Entomology* (5)—Three lectures and two laboratory periods.

Problems in applied entomology, including life history studies, ecology and distribution, parasitism and control.

ENT. 110 y. *Seminar* (1)—Time to be arranged.

Presentation of original work, book reviews and abstracts of the more important literature.

Graduate Students

ENT. 201. *Entomological Problems* (2).

Studies of minor problems in morphology, taxonomy and applied entomology, with particular reference to preparation for individual research. (Cory and Hamilton.)

ENT. 202 y. *Research in Entomology* (6-10).

Advanced studies having sufficient preparation may, with the approval of the head of the department, undertake supervised research in morphology, taxonomy or biology and control of insects. Frequently, the student may be allowed to work on Station or State Horticultural Department projects. The student's work may form a part of the final report on the project and be published in bulletin form. A report, suitable for publication, must be submitted at the close of the studies and the time and place of its publication will be determined by the professor in charge of the work. (Cory.)

FARM FORESTRY

FOR. 101 s. *Farm Forestry* (3)—Two lectures and one laboratory period. Senior year. Prerequisite, Bot. 101.

A study of the principles and practices involved in managing woodlands on the farm. The course covers briefly the identification of trees, forest protection, management, measurement and utilization of forest crops, nursery practice and tree planting. The work is conducted by means of lectures and practice in the woods.

FARM MANAGEMENT

F. M. 101 s. *Farm Accounting* (3)—Two lectures and one laboratory period. Open to juniors and seniors.

A concise practical course in the keeping of farm accounts and in determining the cost of farm production.

F. M. 102 f. *Farm Management* (4)—Four lectures.

The business of farming from the standpoint of the individual farmer. This course aims to connect the principles and practice which the student has acquired in the several technical courses and to apply them to the development of a successful farm business. Prerequisite, F. M. 101.

See also Agricultural Economics, Page ——

FARM MECHANICS

F. MECH. 101 f. *Farm Machinery* (3)—Two lectures and one laboratory period.

A study of the design and adjustments of modern horse and tractor-drawn machinery. Laboratory work consists of detailed study of actual machines, their calibration, adjustment and repair.

F. MECH. 102 s. *Gas Engines, Tractors and Automobiles* (4)—Three lectures and one laboratory period.

A study of the design and operation of the various types of internal combustion engines used in farm practice.

F. MECH. 103 f. *Advanced Gas Engines* (2)—One lecture and one laboratory period. Prerequisite, F. Mech. 102.

An advanced study of the four-cylinder gasoline engine.

F. MECH. 104 f. *Farm Shop Work* (1)—One laboratory period.

A study of practical farm shop exercises offered primarily for prospective teachers of vocational agriculture.

F. MECH. 105 f. *Farm Buildings* (2)—Two lectures.

A study of all types of farm structures, also of farm heating, lighting, water supply and sanitation systems.

F. MECH. 107 s. *Farm Drainage* (2)—One lecture and one laboratory period.

A study of farm drainage systems, including theory of tile underdrainage, the depth and spacing of laterals, calculation of grades and methods of construction. A smaller amount of time will be spent upon drainage by open ditches, and the laws relating thereto.

FRENCH

FRENCH 101 y. *Elementary French* (8)—Four recitations. No credit given unless both semesters are completed. Students who offer two units in French for entrance, but whose preparation is not adequate for second-year French, may receive half credit for this course.

Drill upon pronounciation, elements, of grammar; composition, conversation, easy translation.

FRENCH 102 y. *Second-Year French* (6)—Three recitations. Prerequisite, French 101 or equivalent.

Study of grammar continued; composition, conversation, translation. Texts selected from modern prose.

FRENCH 103 y. *Readings in the French Novel* (6)—Three recitations.

A number of French novels read in historical sequence. This course alternates with French 104. (Omitted 1925-1926.)

FRENCH 104 y. *Readings in the French Drama* (6)—Three recitations.

Rapid reading of representative French dramas selected from the classical period and modern times.

For Advanced Undergraduates and Graduates

FRENCH 201 y. *History of French Literature* (6)—Three lectures and recitations.

Study of the principal periods of French literature.

Attention is called also to Comparative Literature 202. *Molière and the Development of Comedy.*

GENETICS

(A description of courses in Genetics may be found under Agronomy and Animal Husbandry)

GEOLOGY

GEOL. 101 f. *Geology* (3)—Two lectures and one laboratory period.

A text-book, lecture and laboratory course, dealing with the principles of geology and their application to agriculture. While this course is designed primarily for agricultural students in preparation for technical courses, it may also be taken as part of a liberal education.

GERMAN

GERMAN 101 y. *Elementary German* (8)—Four recitations. No credit given unless both semesters are completed. Students who offer two units in German for entrance, but whose preparation is not adequate for second-year German, may receive half credit for this course.

The elements of German grammar; reading of easy prose, oral practice.

GERMAN 102 y. *Second-Year German* (6)—Three recitations. Prerequisite, German 101 or equivalent.

Reading of narrative and technical prose; grammar review; oral and written practice.

GERMAN 103 y. *Advanced German* (6)—Three recitations. Prerequisite, German 102 or equivalent.

Rapid reading of modern dramas and novels by Hauptmann, Sudermann, Fulda, Frenssen, Ernest and others.

GREEK

GREEK 101 y. *Elementary Greek* (8)—Four lectures or recitations each semester.

Drill and practice in the fundamentals of Greek grammar and the acquisition of a vocabulary, with translation of simple prose.

GREEK 102 y. *Greek Grammar, Composition and Translation of Selected Prose Work* (8)—Four lectures or recitations each semester. Prerequisite, Gk. 101 or two entrance units in Greek. (May be omitted 1925-1926.)

HISTORY

H. 101-102 y. *Modern European History* (6)—Three lectures and assignments each semester.

The object of the course is to acquaint students with the chief events in European History during the modern period. The lectures are arranged so as to present a comparative and contrastive view of the most important events during the period covered.

H. 103 f. *American Colonial History* (3)—Two lectures and assignments. Open to sophomores or advanced undergraduates. (Crothers)

A study of the political, economic and social development of the American people from the discovery of America to the Civil War period.

H. 104 s. *American Civil War and Reconstruction* (2)—Two lectures and assignments. (Schulz)

A study of the Civil War and reconstruction periods and the period of national development from the close of the reconstruction period to the present time.

H. 105 s. *History of Maryland* (2)—Two lectures or recitations. (Omitted 1925-1926.) (Spence)

A study of the Colony of Maryland and its development into statehood.

H. 106 s. *Recent American History* (3)—Three lectures and recitations. (Crothers)

H. 107 f. *Latin American Republics* (2).

Influence of the United States in Central and South America. The Monroe Doctrine. The Pan-American Union. (Schulz)

H. 110 f. *Ancient Civilization* (3)—Three lectures or recitations. Required of students taking a major or minor in Classical Languages.

Treatment of ancient times, including Geography, Mythology and Philosophy.

For additional courses in this field see courses listed under *Political Science*, particularly Pol. Sci. 110 and Pol. Sci. 120.

HOME ECONOMICS

H. E. 101 y. *Elementary Foods* (6)—One recitation and two laboratory periods. Prerequisite, Inorganic Chemistry.

Principles and processes of Cookery. Production and composition of foods. Planning and serving of meals.

H. E. 102 f. *Nutrition* (3)—Three recitations. Prerequisite H. E. 101 and Chemistry of Food.

Food requirements and metabolism. Diets for the normal person.

H. E. 103 s. *Nutrition* (3)—One lecture and two laboratory periods. Prerequisite H. E. 102.

Diets and metabolism of the abnormal person; invalid cookery; feeding of children.

H. E. 104 f. *Preservation and Demonstration of Foods* (3)—One lecture and two laboratory periods. Prerequisite H. E. 101.

Canning and Preserving; practice in giving public demonstrations.

H. E. 105 s. *Advanced Foods* (3)—One lecture and two laboratory periods. Prerequisite, H. E. 101.

Experimental work in foods and cookery; fancy cookery; catering. (Omitted 1925-1926.)

H. E. 106 f. *Marketing and Buying* (3)—Two lectures and one laboratory period.

Food budgets and accounts. Selection, purchasing and care of foods for the family. Lectures will be given by specialists in the department of Dairy Husbandry, Animal Husbandry and Horticulture, in the College of Agriculture, on the choice and care of dairy products, meats, vegetables and fruits.

H. E. 107 f. *Home Management and Mechanics of the Household* (3)—Three recitations.

The operation and maintenance of the household; its furnishings and equipment. Lectures on heating, lighting, plumbing, wood finishes and all mechanics of the household, as applied to average rural or city dwellings, will be given by the staff of the College of Engineering.

H. E. 108 f or s. *Practice House* (3)—Six to eight weeks' experience in keeping house in a household of six students.

H. E. 109 y. *Institutional Management* (6)—Three recitations.

The organization and management of institutional dining halls, dormitories and laundries and of commercial cafeterias, tea rooms and restaurants.

H. E. 110 f. *Advanced Institutional Management* (3)—Prerequisite, H. E. 109.

Practice work in the University Dining Hall. (To be offered 1926-1927.)

H. E. 111 s. *Advanced Institutional Management* (3)—Prerequisite, H. E. 110. One recitation weekly and individual conferences with instructor.

Special problems in Institutional Management. (To be offered 1926-1927.)

H. E. 112 f. *Textiles and Clothing* (2)—One recitation and one laboratory period.

History of Textile Fibers, identification of textile materials; variation of weave in regard to beauty and strength; use and value of fibers for clothing and household furnishings, clothing economics.

H. E. 113 s. *Textile and Clothing* (1)—One lecture. Prerequisite, H. E. 112 s.

Review of fundamental stitches; darning and patching; practice in hand and machine sewing; use of machine attachments; study of commercial patterns.

H. E. 114 y. *Pattern Designing and Dressmaking* (6)—One lecture and two laboratory periods. Prerequisite, H. E. 112-113.

Drafting, cutting, fitting and designing of patterns. Construction of woolen dress from pattern designed in class, construction of silk dress, made-over dress, dinner or evening gown. Clothing Economics.

H. E. 115 f or s. *Advanced Clothing* (2)—Two laboratory periods. Prerequisite, H. E. 114.

Designing and dress construction continued. Special problems in fitting worked out.

H. E. 116 f or s. *Millinery* (2)—Two laboratory periods. Prerequisite, H. E. 112-113.

Millinery stitches and simple trimmings; drafting of patterns for hats; making and covering of frames; making hats in velvet, silk, straw and transparent materials; renovation of materials.

H. E. 117 f. *Composition and Design* (3)—Three laboratory periods.

Space division and space relation; color schemes and exercises; original designs in which lines, values and colors are put together to produce fine harmony; perspective principles.

H. E. 118 s. *Still Life* (1)—Drawing from objects in charcoal and color. Emphasis on form, light and dark and perspective. Offered alternate years.

H. E. 119 s. *Figure Sketching* (1)—Alternates with Still Life.

From a posed figure in charcoal and pencil. Emphasis on action, form and value relation.

H. E. 120 s. *Costume Design* (3)—One lecture and two laboratory periods. Prerequisite, H. E. 118.

Appropriate dress; application of color, harmony and proportion of parts to costumes designed in ink and water color; history of costume.

H. E. 121 f. *Home Architecture and Interior Decoration* (3)—Two lectures and one laboratory period. Prerequisite, H. E. 118.

Styles of architecture; application of colors in Home Decorations; furnishings from a sanitary, economical and artistic point of view.

H. E. 122 s. *Art and Handicraft* (1)—One laboratory period.

Review of fancy stitches applied in embroidery, lace and stencils, to lamp shades, table runners, etc.

H. E. 123 s. *Basketry* (1)—One laboratory period.

A study of the various weaves and their application in reed pieces; manipulation of materials in raffia work.

H. E. 124 s. *Seminar* (3)—Three lecture periods.

Book reviews and abstracts from scientific papers and bulletins relating to Home Economics, together with criticisms and discussion of the work presented.

HOME ECONOMICS EDUCATION

H. E. Ed. 101 y. *Education of Women* (4)—Open to juniors and seniors.

History of the family; the effect of civilization upon the organization of the home and the status of its members; educational opportunities for women; training for citizenship, professions and the home.

H. E. Ed. 102 f. *Child Care and Welfare* (3)—Open to seniors. Prerequisite Ed. 103 or its equivalent.

A study of the physical and mental life of the child, including behavior problems, attitudes and habits.

H. E. Ed. 103-104 y. *Teaching Secondary Vocational Home Economics: Methods and Practice* (6)—Prerequisite Ed. 104.

Objectives of vocational home economics; the Smith-Hughes law and its administration; a survey of the needs of the high school girl; adaptation of the state course of study to the needs of the community; methods of instruction; use of the home project; use of illustrative material; improvement of home economics library; study of equipment; outline units of instruction; lesson plans; observation; participation teaching, conferences and critiques.

HORTICULTURE

A. Pomology

Hort. 101 f. *Elementary Pomology* (3)—Two lectures and one laboratory period.

A general course in pomology. The proper location and site for an orchard are discussed. Varieties, planting plans, inter-crops, spraying, cultural methods, fertilizing methods, thinning, picking, packing and marketing are also given consideration. The subjects are discussed for apples, peaches, pears, plums, cherries and quinces. The principles of plant propagation as applied to pomology are discussed.

Hort. 102 f. *Commercial Fruit Growing* (3)—Two lectures and one laboratory period. Prerequisite, Hort. 101.

The proper management of commercial orchards in Maryland. Advanced work is taken up on the subject of orchard culture, orchard fertilization, picking, packing, marketing and storing of fruits, orchard by-products, orchard heating and orchard economics. Designed for undergraduate or graduate students.

Hort. 103 f. *Systematic Pomology* (3)—Two lectures and one laboratory period. Prerequisite, Hort. 101.

The history, botany and classification of fruits and their adaptation to Maryland conditions. Exercises are given in describing and identifying the leading commercial varieties of fruits. Students are required to help set up the fruit show each year. Designed for undergraduate or graduate students.

Hort. 104 f. *Advanced Practical Pomology* (1)—Senior year. Prerequisite, Hort. 102 and 103.

A trip occupying one week's time will be made through the principle fruit regions of eastern West Virginia, Maryland and Pennsylvania.

A visit to the fruit markets of several large cities will be made. The cost of this trip should not exceed thirty dollars to each student. Each student will be required to hand in a detailed report covering the trip. The time for taking this trip will be arranged yearly with each class.

HORT. 105. *Small Fruit Culture*—Second Semester. Two credits. One lecture and one laboratory period.

The care and management of small fruit plantations. Varieties and their adaptation to Maryland soils and climate, packing, marketing and a study of the experimental plots and varieties on the Station grounds. The following fruits are discussed: the grape, strawberry, blackberry, blackcap raspberry, red raspberry, currant, gooseberry, dewberry and loganberry.

HORT. 106 s. *Economic Fruits of the World* (2)—Two lectures. Prerequisites, Hort. 102 and 103.

A study is made of the botanical, ecological and physiological characteristics of all species of fruit-bearing plants of economic importance, such as the date, pineapple, fig, olive, banana, nut-bearing trees, citrus fruits, newly introduced fruits and the like, with special reference to their cultural requirements in certain parts of the United States and the insular possessions. All fruits are discussed in this course which have not been discussed in a previous coure.

HORT. 107 f. *Fruits and Vegetable Judging* (2)—Two laboratory periods. Prerequisites, Hort. 101 and 111.

A course designed to train men for fruit judging teams and practical judging. Students are required to know at least one hundred varieties of fruit, and are given practice in judging single plates, largest and best collections, boxes, barrels and commercial exhibits of fruits and vegetables. Students are required to help set up the college horticultural show each year.

HORT. 108 f. *Advanced Fruit Judging* (1)—One laboratory period. Prerequisite, Hort. 107.

B. Vegetable Crops

HORT. 111 s. *Principles of Vegetable Culture* (3)—Two lectures and one laboratory.

A study of fundamental principles underlying all garden practices. Each student is given a small garden to plan, plant, cultivate, spray, fertilize, harvest, etc.

HORT. 112 f. *Tubor and Root Crops* (2)—One lecture and one laboratory period. Prerequisite, Hort. 111. Open to seniors and graduates.

A study of white potatoes and sweet potatoes, considering seed varieties, propagation, soils, fertilizers, planting, cultivation, spraying, harvesting, storing and marketing.

HORT. 113 s. *Truck Crop Production* (3)—Two lectures and one laboratory period. Prerequisite, Hort. 111.

A study of methods used in commercial vegetable production. Each individual crop is discussed in detail. Trips are made to large commercial gardens, various markets and other places of interest.

HORT. 114 f. *Systematic Olericulture* (3)—Given on odd years only. Two lectures and one laboratory period. Prerequisite, Hort. 112 and 113.

A study of the classification and nomenclature of vegetables. Description of varieties and adaptation of varieties to different environmental conditions.

HORT 115 s. *Advanced Truck Crop Production* (2)—Prerequisites, Hort. 112, 113 and 114.

A trip of one week is made to the commercial trucking section of Maryland, Delaware, New Jersey and Pennsylvania. A study of the markets in several large cities is included in this trip. Students are required to hand in a detailed report of the trip. Such a trip should not exceed thirty dollars per student. The time will be arranged each year with each class.

HORT. 116 s. *Vegetable Forcing* (3)—Two lectures and one laboratory period. Prerequisite, Hort. 111.

All vegetables used for forcing are considered. Laboratory work in sterilization and preparation of soils, cultivation, regulation of temperature and humidity, watering, training, pruning, pollination, harvesting, packing and marketing.

C. Floriculture

HORT. 121 f. *General Floriculture* (2)—One lecture and one laboratory period.

The management of greenhouse; the production and marketing of florists crops; retail methods; plants for house and garden.

HORT. 122-y. *Greenhouse Management* (6)—Two lectures and one laboratory period.

A consideration of the methods employed in the management of greenhouses; including the operations of potting, watering, ventilating, fumigation and methods of propagation.

HORT. 123 y. *Floricultural Practice* (4)—Two laboratory periods.

Practical experience in the various greenhouse operations of the fall, winter and spring seasons.

HORT. 124 s. *Greenhouse Construction* (2)—One lecture and one laboratory period.

The various types of houses, their location, arrangement, construction, and cost; principles and methods of heating; preparation of plans and specifications for commercial and private ranges. This course is given every other year.

HORT. 125 y. *Commercial Floriculture* (6)—Two lectures and one laboratory period. Prerequisite, Hort. 122.

Cultural methods of florists' bench crops and potted plants, the marketing of the cut flowers, the retail store, a study of floral decoration.

HORT. 126 f. *Garden Flowers* (3)—Two lectures and one laboratory period.

Plants for garden use; the various species of annuals, herbaceous perennials, bulbs, bedding plants and roses and their cultural requirements. This course is given every other year.

HORT. 127 s. *Floricultural Trip* (1)—One credit. Prerequisite (Hort. 122.

A trip occupying one week's time will be made through the principal floricultural sections, including Philadelphia and New York, visiting greenhouse establishments, wholesale markets, retail stores, nurseries, etc. The cost of this trip should not exceed thirty dollars to each student. Each student will be required to hand in a detailed report covering the trip. The time for taking this trip will be arranged yearly with each class.

D. Landscape Gardening

HORT. 131s. *General Landscape Gardening* (2)—One lecture and one laboratory period.

The theory and general principles of landscape gardening and their application to private and public areas. Special consideration is given to the improvement and beautification of the home grounds, farmsteads and small suburban properties. Adapted to students not intending to specialize in landscape, but who wish some theoretical and practical knowledge of the subject. Given every other year.

HORT. 132 y. *Plant Materials* (4)—One lecture and one laboratory period.

A field and laboratory study of trees, shrubs and vines used in ornamental planting.

HORT. 133 f. *Elements of Landscape Design* (3)—One lecture and two laboratory periods. Prerequisite, Hort. 127.

A consideration of the principles of landscape design; surveys, mapping and field work.

HORT. 134 y. *Landscape Design* (6)—Three laboratory periods. Prerequisite, Hort. 129.

The design of private grounds, gardens and of architectural details used in landscape; planting plans; analytical study of plans of practicing landscape architects; field observation of landscape developments.

HORT. 135 s. *History of Landscape Gardening* (1)—One lecture or laboratory period. Prerequisite, Hort. 129.

Evolution and development of landscape gardening; the different styles and a particular consideration of Italian, English and American gardens. Given every other year.

HORT. 136 s. *Landscape Construction and Maintenance* (1)—One credit. One lecture or laboratory period.

Methods of construction and planting; estimating; park and estate maintenance. Given every other year.

HORT. 137 f. *Civic Art* (2)—One lecture and one laboratory period. Prerequisite, Hort. 129.

Principles of city planning and their application to village and rural improvement, including problems in design of civic center, parks, school grounds and other public and semi-public areas. Given every other year.

E. General Horticultural Courses

HORT. 141 s. *Horticultural Breeding Practices* (1)—One laboratory period. Senior year. Prerequisites, Genetics, Plant Phys. 101.

Practice in plant breeding, including pollination, hybridization, selection, note taking and the general application of the theories of heredity and selection to practice are taken up in this course.

HORT. 142 y. *Horticultural Research and Thesis* (4-6)—Six credits.

Advanced students in any of the four divisions of horticulture may select some special problem for individual investigation. This may be either the summarizing of all the available knowledge on a particular problem or the investigation of some new problem. Where original investigation is carried on, students should in most cases start the work during the junior year. The results of the research work are to be presented in the form of a thesis and filed in the horticultural library.

HORT. 143 y. *Hroticultural Seminar* (2).

In this course papers are read by members of the class upon subjects pertaining to their research or thesis work or upon special problems assigned them. Discussions of special topics are given from time to time by members of the departmental staff.

Courses Intended Primarily for Graduates

HORT. 201 f. *Experimental Pomology* (3)—Three lectures.

A systematic study of the sources of knowledge and opinion as to practices in pomology; methods and difficulties in experimental work in pomology and results of experiments that have been or are being conducted in all experiment stations in this and other countries. A limited number of seniors will be allowed to take this course, with the approval of the head of the department.

HORT. 202 s. *Experimental Olericulture* (2)—Two lectures.

A systematic study of the sources of knowledge and opinion as to practices in vegetable growing; methods and difficulties in experimental work in vegetable production and results of experiments that have been, or are being conducted in all experiment stations in this and other countries. A limited number of seniors will be permitted to take this course with the approval of the head of the department.

HORT. 203 s. *Experimental Floriculutre* (2)—Two lectures.

A systematic study of the sources of knowledge and opinions as to practices in floriculture are discussed in this course. The results of all experimental work in floriculture which have been, or are being conducted, will be thoroughly discussed. A limited number of seniors will be permitted to take this course with the approval of the head of the department.

HORT. 204 s. *Methods of Research* (2)—One lecture and one laboratory period.

For graduate students only. Special drill will be given in the making of briefs and outlines of research problems, in methods of procedure

in conducting investigational work, and in the preparation of bulletins and reports. A study of the origin, development and growth of horticultural research is taken up. A study of the research problems being conducted by the Department of Horticulture will be made, and students will be required to take notes on some of the experimental work in the field and become familiar with the manner of filing and cataloging all experimental work.

HORT. 205 y. *Advanced Horticultural Research and Thesis* (4, 6 or 8).

Graduate students will be required to select problems for original research in either pomology, vegetable gardening, floriculture or landscape gardening. These problems will be continued until completed and final results are to be published in the form of a thesis.

HORT. 206 y. *Advanced Horticultural Seminar* (2).

This course will be required of all graduate students. Students will be required to give reports either on special topics assigned them, or on the progress of their work being done in courses. Members of the departmental staff will report special research work from time to time.

Requirements of Graduate Students in Horticulture

Pomology—Graduate students specializing in Pomology who are planning to take an advanced degree will be required to take or offer the equivalent of the following courses: Hort. 102, 103, 106, 201, 204, 205 and 206; Biochemistry 101; Plant Bio-physics 202; Plant Physiology 201, and Organic Chemistry 110.

Olericulture—Graduate students specializing in vegetable gardening, who are planning to take an advanced degree, will be required either to take or offer the equivalent of the following courses: Hort. 113, 114, 202, 204, 205 and 206; Biochemistry 101; Plant Bio-physics 202; Plant Physiology 201, and Organic Chemistry 110.

Floriculture—Graduate students specializing in floriculture who are planning to take an advanced degree will be required either to take or offer the equivalent of the following courses: Hort. 122, 123, 124, 125, 126, 128, 129, 203, 204, 205 and 206; Biochemistry 101; Plant Bio-physics 202; Bio-chemistry 102; Botany 103, and Organic Chemistry 110.

Landscape Gardening—Graduate students specializing in landscape gardening, who are planning to take an advanced degree, will be required either to take or offer the equivalent of the following courses: Hort. 128, 129, 130, 132, 204, 205 and 206; Bot. 103; Drafting 101 and 102, and Plane Surveying 101 and 102.

Additional Requirements—In addition to the above required courses, all graduate students in horticulture are advised to take physical and colloidal chemistry.

Unless graduate students in horticulture have had some course work in entomology, plant pathology and genetics certain of these courses will be required.

INDUSTRIAL EDUCATION

IND. ED. 101 y. *Teaching Industrial Subjects in Secondary Schools* (8)—Three lectures and one laboratory period the first semester. One seminar period and practicum, to be arranged the second semester. Prerequisite Ed. 104.

Theory and purposes of industrial education; types of schools and classes; vocational and trade analysis; administrative programs; materials and equipment; methods of the class period; lesson planning; supervised teaching; conferences and critiques.

For Advanced Undergraduates and Graduates

IND. ED. 102 s. *History of Industrial Education* (2).

History of the origin and development of industrial education in the light of group needs; industrial education in the United States; development of schools; present problems in reorganization.

LATIN

LAT. 101 f. *Elementary Latin* (4)—Four lectures or recitations.

This course is offered to cover a substantial and accurate course in Grammar and Syntax, with translation of simple prose. It is substantially the equivalent of one entrance unit in Latin.

LAT. 102 s. *Translation and Prose Composition* (4)—Four lectures or recitations. Prerequisite, Lat. 101 or its equivalent. Substantially the equivalent of a second entrance unit in Latin.

Texts will be selected from the works of Caesar and Sallust.

LAT. 103 f. (4)—Four lectures or recitations. Prerequisite, Lat. 102, or two entrance units in Latin.

Texts will be selected from Virgil with drill on prosody.

LAT. 104 s. (4)—Four lectures or recitations. Prerequisite, Lat. 103 or three entrance units in Latin.

Selections from Cicero's orations with parallel reading of the world's masterpieces of oratory.

LAT. 105 f. (3)—Three lectures or recitations. Prerequisites, Lat. 103 and 104.

Histories of Livy with parallel reading of Napoleon's campaign in Italy.

LAT. 106 s. (3)—Three lectures or recitations. Prerequisites, Lat 103 and 104.

Odes and Epodes of Horace, with appropriate study of prosody.

For Advanced Undergraduates and Graduates.

LAT. 107 f. (3)—Three lectures or recitations. Prerequisites, Lat. 103 and 104.

The writings of Tacitus. (May be omitted 1925-1926.) (Spence.)

Selected Plays of Terence and Platus. (May be omitted 1925-1926.) (Spence.)

LAT. 109 f. (3)—Three lectures or recitations. Prerequisites, Lat. 103 and 104.

Satires of Juvenal and Horace. (May be omitted 1925-1926.) (Spence.)

LAT. 111 s. *Classical Literature* (3)—Three lectures or recitations. Knowledge of Greek or Latin desirable, but not essential.

Study and criticism of translations of the classics, biographies of classic authors. (Spence.)

LIBRARY SCIENCE

L. S. 101 f. *Library Methods* (1)—Freshman year. Required of all students registered in the College of Arts and Sciences. Elective for others.

This course is intended to help students use the library with greater facility. Instruction will be given by practical work with the various catalogs, indexes and reference books. This course considers the general classification of the library according to the Dewey system. Representative works of each division are studied in combination with the use of the library catalogue. Attention is given to periodical literature, particularly that indexed in the Reader's Guide and in the Agricultural Index; and to various much-used reference books which the student will find helpful throughout his college course.

MATHEMATICS

MATH. 101 f. *Algebra* (3)—Three lectures or recitations. Alternative for students in the College of Arts and Sciences. Elective for other students.

This course includes the study of quadratics, simultaneous quadratic equations, graphs, progressions, elementary theory of equations, binomial theorem, permutations, combinations, etc.

MATH. 102 s. *Plane Trigonometry* (3)—Three lectures or recitations. Alternative for students in the College of Arts and Sciences. Elective for other students. Prerequisite, Math. 101.

A study of the trigonometric functions and the deduction of formulas with their application to the solution of triangles and trigonometric equations.

MATH. 103 y. *Plane Trigonometry; Plane Analytic Geometry; Advanced Algebra* (10)—Five lectures or recitations. Required of Freshmen in the College of Engineering. Elective for other students.

Algebra and Plane Trigonometry are given during the first semester. Plane analytic geometry is studied during the second semester.

Advanced Algebra includes a review of algebra required for entrance, elementary theory of equations, binomial theorem, permutations, combinations and other selected topics.

Plane trigonometry includes trigonometric functions, the deduction of formulas and their application to the solution of triangles, trigonometric equations, etc.

Plane analytic geometry includes the curve and equation, the straight line, the conic sections, transcendental curve and empirical equations.

MATH. 104 f. *Plane Analytic Geometry* (3)—Three lectures or recitations. Required of students in chemistry. Elective for other students. Prerequisite, Math. 102.

Plane analytic geometry includes the study of the loci of equations in two variables, the straight line, conic sections and transcendental curves; and the development of empirical equations from graphs.

MATH. 105 s. *Calculus* (3)—Three lectures or recitations. Required of students in Chemistry. Elective for other students. Prerequisites, Math. 104.

Calculus includes the study of the methods of differentiation and integration and the application of these methods in determining maxima and minima and areas, lengths of curves, etc., in the plane.

MATH. 106 y. *Calculus; Mathematics of Space; Special Topics* (10)—Five lectures or recitations each semester. Required of sophomores in the College of Engineering. Elective for other students. Prerequisites, Math. 104 and solid geometry.

Calculus is studied throughout the year. In the second semester two weeks are devoted to the study of the mathematics of space.

Calculus includes a discussion of the methods of differentiation and integration and the application of these methods in determining maxima and minima areas, length of curves, etc., in the plane.

Mathematics of Space includes the solution of spherical triangles; the discussion of surfaces, curves and equations in three variables, the straight line, the plane and quadric surfaces, and the determination of areas, volume, etc., by the methods of the calculus.

For Advanced Undergraduates and Graduates

MATH. 107 f. *Differential Equations* (2)—Two lectures. Elective. Prerequisite, Math. 105 or Math. 106.

The solution of the simpler differential equations is discussed.

MATH. 108 s. *Least Squares* (2)—Two lectures. Elective. Prerequisite, Math. 105 or Math. 106.

A short course in which stress is laid on the application to engineering, chemistry, etc.

MATH. 109 f. *Theory of Equations* (2)—Elective.

MATH. 110 s. *Elementary Theory of Functions of a Complex Variable* (2)—Elective.

MILITARY SCIENCE AND TACTICS

M. I. 101 y. *Basic R. O. T. C.* (2)—Freshman year.

The following subjects are covered:

First Semester:

Physical Training (Practical), Military Courtesy and Customs of the service (Theoretical and Practical), Infantry Drill, School of Soldier, Squad and Platoon (Theoretical and Practical), Scouting and Patroling (Theoretical and Practical), Rifle Marksmanship, to include

gallery practice (Theoretical and Practical), Personal Hygiene (Lectures).

Second Semester:

Physical Training (Practical), Infantry Drill, School of Platoon and Company (Theoretical and Practical), Scouting and Patroling (Theoretical and Practical), Infantry Equipment (Practical).

M. I. 102 y. *Basic R. O. T. C.* (4)—Sophomore year.

The following subjects are covered:

First Semester:

Physical Training (Practical), Infantry Drill, School of the Soldier, Squad, Platoon and Company (Theoretical and Practical), Musketry (Theoretical and Practical), Military Map Reading and Sketching (Theoretical and Practical), Infantry Weapons, viz: Bayonet, Hand Grenades, Rifle Grenades, Automatic Rifles (Theoretical and Practical), Military Hygiene, Sanitation and First Aid (Theoretical and Practical).

Second Semester:

Military Map Reading and Sketching (Theoretical and Practical), Infantry Drill, School of Company (Practical), Physical Training (Practical).

M. I. 103 y. *Advanced R. O. T. C.* (6)—Junior year.

The following subjects are covered:

First Semester:

Physical Training (Practical), Infantry Drill, Duties of Instructors, Command and Leadership (Theoretical and Practical), Field Engineering (Theoretical and Practical), Military Law (Theoretical and Practical), Accompanying weapons, viz: Machine Guns, 37 mm. Gun and Mortars (Theoretical and Practical).

Second Semester:

Physical Training (Practical), Infantry Drill, Duties of Instructors, Command and Leadership (Theoretical and Practical), Field Engineering (Theoretical and Practical), Problems in Use of Accompanying Weapons.

M. I. 104 y. *Advanced R. O. T. C.* (6)—Senior Year.

The following subjects are covered:

First Semester:

Physical Training (Practical), Infantry Drill, Duties of Instructors, Command and Leadership (Theoretical and Practical), Minor Tactics (Theoretical and Practical), Administration, Army Paper Work (Theoretical and Practical), Military History and Policy of the United States (Theoretical).

Second Semester:

Minor Tactics (Theoretical and Practical), Physical Training (Practical), Infantry Drill, Duties of Instructors, Command and Leadership (Theoretical and Practical), Administration, Army Paper Work (Theoretical and Practical), Military History and Policy of the United States (Theoretical).

MUSIC

MUSIC 101 y. *Music Appreciation* (2).

A study of all types of classical music with a view to developing the ability to listen and enjoy. Lecture recitals will be presented with the aid of performers and records. A study of the orchestra, the instruments that it employs. The development of the symphony and orchestra instruments for solo performance. The development of the opera and oratorio. Great singers of the past and present.

MUSIC 102 y. *University Chorus* (2).

Study of part-songs, cantatas and oratorios. Credit is awarded for regular attendance at weekly rehearsals, and participations in public performances of the chorus.

Students admitted who have ability to read and sing music of the grade of easy church hymns. No student may receive more than four credits for work in University Chorus.

(For courses in Voice and Piano see under College of Arts and Sciences.)

PHILOSOPHY

For Advanced Undergraduates and Graduates

PHIL. 101 f. *Introduction to Philosophy* (3)—Lectures and assignments.

A study of the meaning and scope of philosophy: its relations to the arts, sciences and religion. To be followed by Phil. 102.

PHIL. 102 s. *Problems and Systems of Philosophy* (3)—Three lectures and reports on the reading of representative works. Prerequisite, Phil. 101.

Study of the problems and systems of philosophy, together with tendencies of present-day thought.

PHIL. 104 y. *History of Philosophy* (6)—Three lectures each semester. Senior standing required.

A study of the development of philosophy from prehistoric times, through Greek philosophy, early Christian philosophy, mediaeval philosophy to modern philosophical thought. (May be omitted 1925-1926.)

PHYSICAL EDUCATION FOR WOMEN

PHYS. ED. 101 y. *Physical Education and Personal Hygiene* (2) Freshman course required of all women.

This course consists of instruction in hygiene, one period a week, and physical training activities, two periods a week throughout the year.

A. *Personal Hygiene.* The health ideal and its attainment; care of the body relative to diet, exercise, sleep, bathing, etc.; agents that injure health.

B. *Physical Activities.* The aim is to adapt the physical activities to the needs of groups and individuals. Gymnastic practice, indoor and outdoor games, sports and athletics are provided. The repertory of games and sports is as follows: basketball, hiking, rifle shooting, wimming, tennis and track and field events.

PHYS. ED. 102 y. *Physical Education and General Hygiene* (4) Sophomore course required of all women.

This course is a continuation of the freshman course. The work in hygiene includes the elements of physiology and the elements of home, school and community hygiene. The program of physical activities is essentially the same as in the first year.

PHYSICS

PHYSICS 101 y. *Arts Physics* (8)—Three lectures (or recitations), and one laboratory period each semester. Prerequisite, Math. 101 and 102.

A discussion in the class room and application in the laboratory of the laws governing the physical phenomena in Mechanics, Heat, Sound, Magnetism, Electricity and Light. Required of students in the Pre-Medical curriculum. Elective for other students.

PHYSICS 102 y. *Engineering Physics* (10)—Four lectures (or recitations) and one laboratory period each semester. Prerequisite, Math. 103.

Laws and theories pertaining to Mechanics, Heat, Sound, Magnetism, Electricity and Light, with special reference to the problems which are concerned with engineering, are discussed in the class room and applied in the laboratory. Required of all students in engineering and chemistry. Elective for other students.

PHYSICS 103 s. *Special Applications of Physics* (4)—Three lectures (or recitations) and one laboratory period.

This course consists of a discussion of the laws and theories of physics from the viewpoint of their practical applications. Especially for students in agriculture and home economics.

For Advanced Undergraduates and Graduates

PHYSICS 104 f. *Physical Measurements* (3)—Two lectures (or recitations) and one laboratory period. Prerequisite, Physics, 101 or 102.

This course is designed for the study of the theory of physical measurements and for familiarizing the student with the manipulation of the types of apparatus used in experimentation in physical problems. Elective.

PHYSICS 105 f. *Advanced Physics* (3-4)—Three lectures (or recitations) and one laboratory period. Prerequisite, Physics, 101 or 102.

PHYSICS 106 s. *Advanced Physics* (3-4)—Three lectures (or recitations) and one laboratory period. Prerequisite, Physics, 101 and 102.

A discussion of the phenomena in Physical Optics, Spectroscopy, Conduction of Electricity through Gases, Radioactivity. Elective.

PHYSICS 107 y. *Graphic Physics* (2)—One laboratory period each semester. Prerequisite, Physics 102.

A study of physical laws and formulae by means of scales, charts and graphs. Elective.

PLANT PATHOLOGY

PLT. PATH. 101 f. *Diseases of Plants* (3)—Two lectures and one laboratory period. Prerequisite, Gen. Bot. 101.

An introductory study in the field, in the laboratory and in the literature, of symptoms, casual organisms and control measures of the diseases of economic crops.

PLT. PATH. 102 s. *Forest Pathology* (1)—One lecture and an occasional field trip or laboratory period.

The diseases of forest trees of economic importance. Intended especially for students in forestry.

For Advanced Undergraduates and Graduates

PLT. PATH. 103 y. *Methods and Problems in Plant Pathology* (4) One conference and five hours of laboratory and library work. Prerequisite, Plt. Path. 101 or equivalent.

Method of research in general and technique of plant disease investigations in particular. Bibliography, planning, sterilization culture media, isolation of pathogens, inoculation, single-spore methods; disinfectants, fungicides and spray materials; photography; preparation of manuscripts. For the second semester, the laboratory work for capable students will be the investigation of one or more special problems. (Ezekiel.)

PLT. PATH. 104 y. *Advanced Plant Pathology* (6)—Prerequisite, Plt. Path. 101.

An intensive study: First semester, diseases of fruits; second semester, diseases of garden and field crops. The full course is intended to give a rather thorough knowledge of the subject-matter, such as is needed by those who expect to become advisers in crop-production as well as those who expect to become specialists in plant pathology. The project method of study is used; the student is assigned several subjects closely related to his major interest, he consults the original papers on each subject, organizes the information and presents it as a complete report before the class. (Temple.)

PLT. PATH. 105 y. *Seminar* (2).

Conferences and reports on plant pathological literature and on recent investigations. (Temple.)

PLT. PATH. 106 f. *Diseases of Ornamentals* (2)—One lecture and one laboratory period. Offered in 1926-27 and then in alternate years.

A comprehensive study of the diseases of ornamental plants, including flowers, shrubs and trees of greenhouse, garden and landscape.

For Graduates

PLT. PATH. 201 f. *Virus Diseases*—Two (one) credits. Two (one) lectures.

An advanced course dealing with the mosaic and similar or related diseases of plants, including a study of the current literature on the subject.

PLT. PATH. 202 s. *Physiology of Parasitism* (2)—One lecture and one laboratory period. Prerequisite, Plt. Path. 103 or equivalent.

A study of the physiological inter-relations of plant pathogens and their hosts.

PLT. PATH. 203 f. *Non-Parasitic Diseases* (2)—Two lectures.

Effects of maladjustment of plants to their environment; injuries due to climate, soil, gases, dusts and sprays, fertilizers; improper treatment and other detrimental conditions. (Norton.)

PLT. PATH. 204 s. *Literature of Plant Pathology* (2)—One conference and five hours of library work.

History and development of the science; scope and importance of the more outstanding botanical and plant pathological publications, including journals, bulletins, etc.: card catalogue of the workers, past and present day, and of their contributions; laboratories for research and for instruction. (Temple.)

PLT. PATH. 205 y. *Research*—Credits according to work done.

PLANT PHYSIOLOGY AND BIOCHEMISTRY

A. Plant Physiology

PLT. PHY. 101 f. *Plant Physiology* (4)—Two lectures and two laboratory periods. Prerequisite Gen. Bot. 101.

Water requirements, principles of absorption, mineral nutrients, transpiration, synthesis of food, metabolism, growth and movements.

PLT. PHY. 102 s. *Plant Ecology* (3)—One lecture and two laboratory periods. Prerequisite, Bot. 101.

The study of plants in relation to thir environments. Plant formations and successions in various parts of the country are briefly treated. Much of the work, especially the practical, must be carried on in the field and for this purpose type regions adjacent to the University are selected.

For Advanced Undergraduates and Graduates

PLT. PHY. 103 y. *Advanced Plant Physiology* (4)—Two lectures and two laboratory periods. Prerequisite, Plt. Phy. 101.

The laboratory work generally consists of special work on one or more problems that may continue through the year. Students who write

thesis for their undergraduate degrees may use data obtained from special problems assigned for laboratory work. (Zimmerman.)

B. Biochemistry

BIOCHEM. 101 f. *General Biochemistry* (4)—Two lectures and two laboratory periods. Prerequisites, Gen'l Chem. 101, Analyt. Chem. 103 or their equivalents; also an elementary knowledge of organic chemistry.

A general course in chemical biology treated from the point of view of both animals and plants. The first half of the course is devoted to the chemistry of protoplasm and its products. The second half of the course deals with cell metabolism and embraces processes and problems of fundamental importance in both animal and plant life. (Appleman, Conrad.)

For Graduates

PLT. PHYS. 201 s. *Plant Biochemistry* (3)—Two lectures and one laboratory period. Prerequisites, Bio. Chem. 101 and an elementary knowledge of plant physiology.

An advanced course on the chemistry of plant life. It follows Bio. Chem. 101 and deals with materials and processes characteristic of plant life. The relation of primary syntheses and transformations of materials in plants and plant organs to animal food is especially emphasized. (Appleman, Conrad.)

PLT. PHYS. 202 s. *Plant Biophysics* (3)—Two lectures and one laboratory period. Prerequisites, one year's work in physics and an elementary knowledge of physical chemistry and plant physiology.

An advanced study of the operation of physical forces in plant physiological processes. The relation of climatic conditions to plant growth and practice in recording meteorological data constitute a part of the course. (Johnston.)

PLT. PHYS. 203 s. *Physiological Problems of Plant Development* (1-2)—(Appleman, Johnston.)

PLT. PHYS. 204 f. *Advanced Physiological Methods and Measurements* (2)—Not given every year. (Appleman, Johnston.)

PLT. PHYS. 205 y. *Seminar* (2).

The students are required to prepare reports of papers in the current literature. These are discussed in connection with the recent advances in the subject. (Appleman, Johnston.)

PLT. PHYS. 207 y. *Research*—Credit hours according to work done.

Students must be specially qualified by previous work to pursue with profit the research to be undertaken. (Appleman, Johnston.)

POLITICAL SCIENCE

SOC. SCI. 101 y. *Elements of Social Science* (6).
(For description of course see Economics, p. —.)

For Advanced Undergraduates and Graduates

POL. SCI. 102 f. *Government of the United States* (3)—Three lectures and recitations. Prerequisite, Soc. Sci. 101.

A study of the Government of the United States. Evolution of the federal constitution; function of the federal government.

POL. SCI. 103 s. *Governments of Europe* (3)—Three lectures and recitations. Prerequisites, Soc. Sci. 101; Pol. Sci. 102. (Omitted, 1925-1926.)

A rapid survey and comparative study of the political organization of the principal states of Europe. Classification of forms, separation of powers. (Schulz.)

POL. SCI. 104 s. *American Municipal Government* (2)—Two lectures and recitations. Prerequisites, Soc. Sci. 101; Pol. Sci. 102.

A study of American City Government; organization and administration; city manager and commission plans; initiative, referendum and recall. (Schulz.)

POL. SCI. 110 y. *Constitutional Law and History of the United States* (4)—Two lectures and cases each semester. Prerequisites, Soc. Sci. 101; Pol. Sci. 102. Alternates with Pol. Sci. 111. Seniors and Graduate students.

A study of the historical background of the Constitution and its interpretation. (Schulz.)

POL. SCI. 111 y. *International Law* (4)—Two lectures, assigned reading and cases each semester. Prerequisites, Soc. Sci. 101; Pol. Sci. 102. Alternates with Pol. Sci. 110. Seniors and Graduate students. (Omitted 1925-1926.)

A study of the sources, nature and sanction of international law, peace, war and neutrality. (Schulz.)

POL. SCI. 112 f. *American Diplomacy* (3)—Three lectures and cases. Prerequisites as for Pol. Sci. 111.

A study of American foreign policy. (Schulz.)

POL. SCI. 116 f. *Political Parties in the United States* (3)—Two lectures and assigned readings. Prerequisites, Soc. Sci. 101; Pol. Sci. 102. (Omitted 1925-1926.)

The development and growth of American Political Parties. Party organization and machinery. (Schulz.)

POL. SCL. 120 f. *Far Eastern History, Politics and Finance* (3) Three lectures and assignments.

A study of the social and economic history of the principal countries of the Far East, with special emphasis upon political and economic movements in China and Siberia, and the relations of the countries of the Far East with the United States and other Western Nations. (Lee.)

POULTRY HUSBANDRY

POULTRY 101 s. *Farm Poultry* (3)—Two lectures and one laboratory period.

A general course in poultry raising, including housing, feeding, incubation, brooding, breeds, breeding, selection of stock, culling, general management and marketing.

POULTRY 102 f. *Poultry Keeping* (4)—Two lectures and two laboratory periods. Prerequisite, Poultry 101.

A study of housing and yarding, practice in making poultry house plans, feeding, killing and dressing.

POULTRY 103 s. *Poultry Production* (4)—Two lectures and two laboratory periods. Prerequisite, Poultry 101 and 102.

The theory and practice of incubation and brooding, both natural and artificial. Study of incubators and brooders, assembling, etc. Considerable stress will be placed on the proper growing of chicks into good laying pullets. General consideration of poultry disease. Caponizing.

POULTRY 104 f. *Poultry Breeds* (4)—Two lectures and two laboratory periods. Prerequisite, Poultry 101, 102 and 103.

A study of the breeds of poultry, the judging of poultry, fitting for exhibition and the methods of improvement by breeding.

POULTRY 105 s. *Poultry Management* (4)—Two lectures and two laboratory periods. Prerequisites, Poultry 101, 102, 103 and 104.

A general fitting together and assembling of knowledge gained in the previous courses. Culling, marketing, including both selling of poultry products and the buying of supplies, keeping poultry accounts, a study of poultry profits, how to start.

PSYCHOLOGY

PSYCH. 101 s. *Elements of Psychology* (3)—Three lectures and recitations each semester.

The facts and uniformities of mind; types of behavior, conscious experience, sensation and image, perception, attention, memory, emotion, action and thoughts. Experimental methods and their results are illustrated in lectures.

ED. 103 f. ***Educational Psychology*** **(3).**

(See *Education.*)

For Advanced Undergraduates and Graduates

ED. 108 s. ***Advanced Educational Phychology*** **(3).**

(See *Education.*)

ED. 109 f. ***Educational Measurements*** **(3).**

(See *Education.*)

PUBLIC SPEAKING

P. S. 101 f. *Reading and Speaking* (1)—One lecture or recitation.

The principles and technique of oral expression; enunciation, emphasis, inflection, force, gesture and general delivery of short speeches. Impromptu speaking. Theory and practice of parliamentary procedure.

P. S. 102 s. *Reading and Speaking* (1)—One lecture or recitation.

Continuation of P. S. 101.

P. S. 103 f. *Advanced Public Speaking* (2)—Two lectures or recitations.

Advanced work on basis of P. S. 101-2 with special applications and adaptations. At each session of the class a special setting is given for the speeches—civil, social and political organizations, etc., and organizations in the field of the prospective vocation of the different students. When a student has finished this course he will have prepared and delivered one or more speeches which would be suitable and appropriate before any and all bodies that he would probably have occasion to address in after-life.

P. S. 105 f. *Oral Technical English* (1)—One lecture or recitation.

The preparation and delivery of speeches, reports, etc., on both technical and general subjects. Argumentation. This course is especially adapted to the needs of engineering students and is co-ordinated with the seminars of the College of Engineering.

P. S. 106 s. *Oral Technical English* (1)—One lecture or recitation.

Continuation of P. S. 105.

P. S. 107 f. *Oral Technical English* (1)—One lecture or recitation.

The preparation and delivery of lectures, speeches, reports, etc., on both technical and general subjects. Argumentation. This course is especially adapted to the needs of students of chemistry. The head of the Department of Chemistry co-operates in the preparation of class programs. For sophomore chemistry students only.

P. S. 108 s. *Oral Technical English* (1)—One lecture or recitation.

Continuation of P. S. 107.

P. S. 109 f. *Advanced Oral Technical English* (2)—Two lectures or recitations.

This course is a continuation with advanced work of P. S. 105-106. Much attention is given to Parliamentary Procedure. Some of the class programs are prepared by the students and carried out under student supevision. For junior engineering students only.

P. S. 110 s. *Oral Technical English* (2)—Two lectures or recitations.

Continuation of P. S. 109.

P. S. 111 f. *Advanced Oral Technical English* (1)—One lecture or recitation

Advanced work on the basis of P. S. 109-110. Work not confined to class room. Students are encouraged to deliver addresses before different bodies in the University and elsewhere. For senior engineering students only.

P. S. 112 s. *Oral Technical English* (1)—One lecture or recitation.

Continuation of P. S. 111.

P. S. 113 f. *Oratory* (1)—One lecture or recitation. Prerequisite, P. S. 101.

The rhetoric of oral discourse. The speech for the occasion. Study of masterpieces of oratory. Practice in the writing and delivery of orations.

P. S. 114 s. *Oratory* (1)—One lecture or recitation.

Continuation of P. S. 113.

P. S. 115 f. *Extempore Speaking* (1)—One lecture or recitation.

Much emphasis on the selection and organization of material. Class exercises in speaking extemporaneously on assigned and selected subjects. Newspaper and magazine reading essential.

P. S. 116 s. *Extempore Speaking* (1)—One lecture or recitation.

Continuation of P. S. 115.

P. S. 117 f. *Debate* (2)—Two lectures or recitations

A study of the principles of argumentation. A study of masterpieces in argumentative oratory. Class work in debating. It is advised that those who aspire to intercollegiate debating should take this course.

P. S. 118 s. *Argumentation* (2)—Two lectures or recitations.

Theory and practice of argumentation and debate. Similar to course 118. This course is offered for the benefit of those who may find it impracticable to take this work in the second semester.

P. S. 119 f. *Oral Reading* (2)—Two lectures or recitations.

A study of the technique of vocal expression. The oral interpretation of literature. The practical training of students in the art of reading.

P. S. 120 s. *Oral Reading* (2)—Two lectures or recitations.

Continuation of P. S. 119.

SOCIOLOGY

Soc. Sci. 101 y. *Elements of Social Science* (6).

(For description of course see *Economics*.)

For Advanced Undergraduates and Graduates

Soc. 102 f. *Anthropology* (3)—Three lectures and assignments. Prerequisite, Soc. Sci. 101.

A study of prehistoric institutions; origins of capital, language, the family, state, religion and rights, with some reference to the natural history of man. (Murdock.)

Soc. 104 s. *General Sociology* (3)—Three lectures and assignments. Prerequisites, Soc. Sci. 101. Should be preceded by Soc. 102.

A study of the fundamental principles of the science of society; development of early industrial, religious, family and regulative organizations, modes of social activity among savage, barbarous and civilized peoples. (Murdock.)

Soc. 105 f. *Contemporary Social Problems* (3)—Three lectures and assignments. Prerequisites, Soc. Sci. 101. Soc. 104. Seniors and graduates.

An intensive study of modern social conditions, with emphasis on the adjustments; housing and public health; poverty; crime, delinquency; child welfare. (Diamond.)

Soc. 106 f. *American Population* (3)—Three lectures and assignments. Prerequisites, Soc. Sci. 101 and Soc. 104.

Growth and composition of American population; problems of race adjustment; the Negro; the Indian; the Immigrant. (Murdock.)

Soc. 108 s. *Social Adaptation* (3)—Lectures and assignments. Prerequisites, Soc. Sci. 101 and Soc. 104.

A study of the principal types of adjustments by various societies; social legislation; insurance; government aid; welfare organizations; philanthropy. (Murdock.)

Soc. 110 s. *Methods in Applied Sociology* (3)—Lectures and assignments. Prerequisites, Soc. Sci. 101, a substantial number of advanced courses in Social Science and Senior standing.

The application of the principles of the science of society in social service. Social surveys in theory and practice. Public policy as respects the dependent and delinquent. (Lee.)

Ed. 107 f or s. *Educational Sociology* (3).
(See *Education.*)

Ag. Ed. 102 s. *Educational Leadership in Rural Communities* (3).
(See *Agricultural Education and Rural Life.*)

H. E. Ed. 101 y. *Education of Women* (4).
(See *Home Economics Education.*)

For Graduates

Soc. 201 s. *Sociological Systems* (2)—(Omitted, 1925-1926.)

A comparative survey of the most important sociological literature. (Lee.)

Soc. 204 y. *The Mental Outfit* (6)—Three lectures, and a substantial amount of outside reading each semester. Open to graduates and selected seniors who have had a substantial number of advanced courses in Social Science.

An ethnological study of the beginnings and evolution of science and religion. Primitive mental reactions; animistic conceptions; development of the cult and the priesthood. (Murdock.)

Soc. 210 s. *Sociological Seminar* (2)—Open to graduate students and Seniors with a major in Social Science.

Trends in Sociological Writing. Reviews of current social science works. Survey of sociological investigations under way. (Department.)

Ag. Ed. 203 s. *Rural Community Surveys* (3-5).
(See *Agricultural Education and Rural Life.*)

SOILS

Soils 101 s. *Principles of Soil Management* (3)—Two lectures, one quiz and one laboratory period. Prerequisite, Geol. 101.

A study of the physical, chemical and biological principles underlying the formation and management of soils. The relation of mechanical composition, classification, moisture, temperature, air, organic matter and tillage are considered. The use and value of commercial plant nutrients, green and stable manure and of lime are discussed.

Soils 102 f. *Fertilizers and Manures* (3)—Two lectures and one laboratory period. Prerequisite, Soils, 101.

This course includes a study of the nature, properties and use of fertilizers; the source and composition of fertilizer materials and the principles underlying the mixing of commercial plant-food. A study is made of the production, value and uses of animal and vegetable manures. The practical work includes special studies of the effect of fertilizers and manures on the crop-producing power of the various soil types.

Soils 103 s. *Soil Fertility* (3)—Two lectures and one laboratory period. Prerequisites, Soils 101 and 102.

A study of the soil fertility systems of the United States, with special emphasis on the inter-relation of total to available plant food, the balance of nutrients in the soil with reference to various cropping systems and the economic and national aspect of permanent soil improvement. The practical work includes a resume of the important fertility studies and laboratory and greenhouse practice in soil improvement.

Soils 105 f. *Soil Surveying and Classification* (3)—One lecture and two laboratory periods. Prerequisite, Soils 101.

A study of the principal soil regions, series and types of the United States, and especially of the soils of Maryland, as to formation, composition and value agriculturally. The practical work includes a field survey, identification of soil types and map-making.

Soils 107 s. *Soil Micro-Biology* (3)—Two lectures an done laboratory period. **Prerequisite, Bact. 101.**

A study of the micro-organisms of the soil in relation to fertility. It includes the study of the bacteria of the soil concerned in the decomposition of organic matter, nitrogen fixation, nitrification, sulphofication and such injurious organisms as fungi, algae and protozoa.

Soils 108 y. *Thesis* (4-8).

Some special problem is assigned to each student, who is expected to embody the results of the investigation in a thesis.

For Advanced Undergraduates and Graduate Students

Soils 109 y. *Soil Technology* (6)—One lecture and two laboratory periods. Prerequisites, Geology 101 and Soils 101; Chemistry 101.

The technique of the field, laboratory and greenhouse manipulation as applied to the study of soil problems. (McCall, Smith.)

Soils 110 s. *Methods of Soil Investigation* (2).

The course includes a critical study of the methods used by experiment stations in soil investigational work. (McCall.)

Soils 111 y. *Seminar* (2).

The seminar periods are devoted largely to the discussion of the current bulletins and scientific papers on soil topics. (Staff.)

For Graduate Students

Soils 201 y. *Special Problems and Research* (10-20).

Original investigation of problems in soils and fertilizers. (McCall.)

SPANISH

SPANISH 101 y. *Elementary Spanish* (8)—Four recitations. No credit given unless both semesters are completed. Students who offer two units in Spanish for entrance, but whose preparation is not adequate for second-year Spanish may receive half credit for this course.

Elements of Spanish grammar; reading of easy prose; oral practice.

SPANISH 102 y. *Second-Year Spanish* (6)—Three recitations. Prerequisite, Spanish 101 or equivalent.

Reading of narrative works and plays; grammar review; oral and written practice.

SPANISH 103 y. *History of Spanish Literature* (6)—Three lectures or recitations. Prerequisite, Spanish 102 or equivalent.

General survey of Spanish literature up to the twentieth century.

SPANISH 104 f. *The Golden Age* (3)—Three lectures or recitations. Prerequisite, Spanish 102 or equivalent.

Readings from the Spanish Drama of the Golden Age. (Not goven 1925-26.)

SPANISH 105 s. *Don Quijote* (3)—Three lectures or recitations. Prerequisite, Spanish 102 or equivalent.

Reading of Cervantes' Don Quijote. (Not given 1925-26.)

VETERINARY MEDICINE

For Students in Agriculture

V. M. 101 f. *Anatomy and Physiology* (3)—Three lectures. Junior year.

Structure of the animal body; abnormal as contrasted with normal; the inter-relationship between the various organs and parts as to structure and function.

V. M. 102 s. Animal Diseases (3)—Three lectures or demonstrations. Senior year.

Diseases of domestic animals, infectious and non-infectious. Early recognition of disease; hygiene, sanitation and prevention; first aid.

For Graduates

V. M. 201-202. *Research*—Genital Diseases of Domestic Animals. Prerequisites; degree in veterinary Medicine, from an approved veterinary college. Laboratory and field work by assignment. Reed.)

ZOOLOGY AND AQUICULTURE

ZOOL. 101 f or s. *General Zoology* (4)—Two lectures and two laboratory periods.

This course presents the fundamental principles of animal biology that constitute the foundation which is necessary for further study in any line of Zoology.

ZOOL. 102 f. *General Zoology for Pre-Medical Students* (4)—Two lectures and two laboratory periods.

ZOOL. 103 s. *General Zoology for Pre-Medical Students* (4)—Two lectures and two laboratory periods.

ZOOL. 104 s. *Economic Zoology* (1)—One lecture. Prerequisite one course in Zoology or Botany 101.

The content of this course will center around the problems of preservation, conservation and development of the aquatic life of Maryland, including the blue crab and oyster. The lectures will be supplemented by assigned readings and reports. (Not offered in 1925-1926.)

ZOOL. 105 f. *The Invertebrates* (3)—One lecture and two laboratory periods. Prerequisite, Zool. 101.

This course consists in a study of the morphology and relationships of the principal invetebrate phyla.

ZOOL. 106 s. *Field Zoology* (3)—One lecture and two laboratory periods.

This course consists in collecting and studying both land and aquatic forms of nearby woods, fields and streams, with special emphasis placed upon insects and certain vertebrates, their breeding habits, environment and economic importance.

ZOOL. 108 f. *Comparative Vertebrate Morphology* (4)—Two lectures and two laboratory periods. Prerequisite, Zool. 101, or Zool. 106. Required of pre-medical students.

ZOOL. 112 s. *Normal Animal Histology* (3)—One lecture and two laboratory periods. Prerequisite, Zool. 101.

Instruction in the simplest processes of technique will accompany the study of prepared material.

ZOOL. 116 s. *Advanced Comparative Vertebrate Morphology* (2)—Schedule to be arranged. Prerequisite, Zool. 108 or its equivalent.

This is a continuation of Zool. 108, but will consist of laboratory work only.

For Advanced Undergraduates and Graduates

ZOOL. 120 s. *Embryology* (4)—Two lectures and two laboratory periods. Prerequisites, two semesters of biology, one of which should be Zool. 101 or 102. Required of three-year pre-medical students.

This course covers the development of the chick to the end of the fourth day. (Pierson, Anderson.)

ZOOL. 125 y. *Aquiculture* (2)—Lectures and laboratory to be arranged. Prerequisites, Zool. 101 and Bot. 101.

Plankton studies and the determination of other aquatic life of nearby streams and ponds. Morphology and ecology of representative commercial and game fishes in Maryland, the Chesapeake blue crab and the oyster. (Truitt.)

ZOOL. 130 f. *Organic Evolution* (2)—Two lectures. Prerequisites, two semesters of biological science, one of which must be either Zool. 101 or Zool. 106.

The object of this course is to present the biological data on which the theories of evolution rest. The lectures will be supplemented by discussion, reports and collateral reading. (Pierson.)

ZOOL. 135 y. *Vertebrate Zoology*—Credit hours and schedule to be arranged to suit the individual members of the class.

Each student may choose within certain limits, a problem in Taxonomy, Morphology or Embryology. (Pierson.

ZOOL. 136 s. *Assigned Problems*—(Pierson, Truitt.)

SECTION IV

DEGREES, HONORS, STUDENT REGISTER

DEGREES CONFERRED 1924

HONORARY DEGREES

ALBERT SAMUEL COOK, Doctor of Letters
ARTHUR NEWHALL JOHNSON, Doctor of Engineering
DAVID I. MACHT, Doctor of Pharmacy
RANDOLPH WINSLOW, Doctor of Laws
HIRAM WOODS, Doctor of Laws

HONORARY CERTIFICATES OF MERIT

JOHN L. CHAMBERS	Perryman, Maryland
CHARLES WERTHEIMER	Centreville, Maryland
PARKER MITCHELL	Frederick, Maryland

THE GRADUATE SCHOOL

Doctor of Philosophy

WALTER NAPHTALI EZEKIEL
B. S. Maryland, 1920
M. S. Maryland, 1921

Dissertation:
"Fruit-Rotting Sclerotinias II. The American Brown-Rot Fungi."

Master of Arts

CHARLES LEROY MACKERT
SHERMAN EDWARD FLANAGAN
ADELE HAGNER STAMP

Master of Science

OTTO WATSON ANDERSON
ARTHUR KIRKLAND BESLEY
CHARLES MACFARLANE BREWER
BYRON C. BRUNSTETTER
IRWIN CHARLES CLARE
MORRIS H. DASKAIS
JAMES WILLIAM ELDER
JOHN NEWTON FIELDS
ALBERT LAWRENCE FLENNER
JOHN EDWARD FLYNN
MILDRED WATKINS GRAFFLIN
CLAYTON PRICE HARLEY
MYRON GERRISH HOLMES
WILLIAM DUKE KIMBROUGH
JOHN STEWART KNODE
JOHN CHRISTIAN KRANTZ, JR.
FELIX SCOTT LAGASSE
GEORGE SHEALY LANGFORD
HARRY GOTFRED LINDQUIST
GEORGE WILBUR MALCOLM
RUSSELL EARL MARKER
GEORGE FINDLAY POLLOCK
SAMUEL FREDERICK POTTS
PAUL DE LEON SANDERS
CLIFFORD HENRY SCHOPMEYER
VIRGIL ST. CLAIR TROY
EMIL GASTON VANDENBOSCHE
WILLIAM PAUL WALKER
CHARLES EDWARD WHITE
HOWARD BARR WINANT

COLLEGE OF AGRICULTURE

Bachelor of Science

SAMUEL RANKIN BENSON BACON
CAREY FRANCIS CHURCH
GLENN MEREDITH CLARKE
WILLIAM MITCHELL DUVALL
EVERETT CLAYTON EMBREY
D. KERR ENDSLOW
CHARLES HAROLD GEIST
ROGER FRANCIS HALE
HUGH HANCOCK
FLOYD H. HARPER
SAMUEL LARMON LUDLUM
THOMAS JACKSON MCQUADE
JOHN LUPTON MECARTNEY
ROBERT HARTSHORNE MILLER, JR.
NORRIS NEWMAN NICHOLS
ROBERT SHARP NICHOLS
WILLIAM BOUIC PENN
WILLIAM DELAPLANE POWELL
CHARLES EDWARD PRINCE, JR.
HAROLD ALBERT REMSBERG
BENJAMIN HAMILTON ROCHE
CHARLES ROSENBERG
RUSSELL GROVE ROTHGEB
TAYLOR PRESCOTT ROWE
EDGAR KINNEY WALRATH
WILHELM HARDY WEBER
H. ORBELL YATES, JR.

Certificate, Two-Year Course in Agriculture

HARRY ABERNATHY STEWART

COLLEGE OF ARTS AND SCIENCES

Bachelor of Arts

VIRGINIA WEMYSS BREWER
RALPH HENRY CHASE
CATHERINE LEE CLAY
L. CLARISSA HARMAN
LELAND MERRILL HEDGCOCK
ALBERT E. HITCHCOCK
HUGH OSGOOD HOUSE
DEAN STANLEY LESHER
ALAN F. MACDOUGALL
PAUL FREDERICK NEWLAND
VIVIEN WINIFRED PORTER
VIRGINIA IRVING SPENCE
*EDWIN HOLT STEVENS
EMILE ADAM SULLIVAN
AUBREY ST. CLAIR WARDWELL
MARY SALOME WARRENFELTZ
JOHN IRWIN WHITE

Bachelor of Science

WILSON CHRISTIAN BEERS
FLORENCE EUGENIA BESLEY
GEORGE DEWEY DARCY
EDWIN BENNET FILBERT
CHARLES MCDONALD GAMBRILL
WILLIAM FREELAND GEMMILL
FRANK MAHON HARNED
HENRY RALPH HEIDELBACH
THOMAS JAMES HOLMES
JAMES TEMPLE KNOTTS, JR.
ELMER GALEN REX
EMILIO RUIZ
EUGENE ROGER STEELE
ROBERT PAUL STRAKA
WILLIAM GILBERT TERWILLIGER
FREDERIC VAN DEURSEN WACK
HENRY MADISON WALTER

* Graduated September, 1924.

COLLEGE OF COMMERCE AND BUSINESS ADMINISTRATION

Bachelor of Business Administration

EUGENE BOLSTLER
CHUNG TANG CHEN
EARL PHILIP DARSCH
ARTHUR WILLIAM GRAY
DENNIS BRADLEY SULLIVAN
PORTER THURMAN WHITE
DALIN R. ZANG

Bachelor of Commercial Science

CHARLES HERBERT BAXLEY
CHARLES GORDON BUCKEY
WILLIAM LASSALLE CANTON
MAYNARD A. CLEMENS
C. E. DAVIS
JOSEPH S. DIPAULA
HELEN GOULD
NORMAN MICHAEL JONES
WILLIAM G. LEVINSON
WILLIAM HERBERT MCCLYMENT
MOODY AYERS ROBINSON
VICTOR T. SCHOTTA
MAURICE AARON WILNER

Certificate of Proficiency

HYMAN VICTOR ABRAMSON
NORRIS C. BRADFIELD
NATHAN SMITH
HOWARD S. STROUSE

SCHOOL OF DENTISTRY

Doctor of Dental Surgery

EVERETT LACROIX ADAMS
LESTER OLAS ADKINS
CARLOS RUIZ AGUILAR
WILLIAM CLARENCE ALFORD
JORGE VASQUEZ ARJONA
JOHN FRANK BAUDER
WILFRED PIERRE BAZINET
JOHN FRANCIS BEGG
GEORGE WILLIAM BISSETT
WILLIS W. BOATMAN
JAMES BASSETT BRADLEY
JOHN PILCHER BRADSHAW
GEORGE REXFORD BRANDOW
MORRIS BRENNER
FLOYD MARCY BUMP
OVA MILTON BURLEY
RALPH DEMPSTER CAMPBELL
JOHN ANDREW CASEY
NATHAN THEODORE CHIMACOFF
WILLIAM PHILLIP CHRISTIAN
ROBERT RUSSELL CLARK
EARL WARE CONNELL
JAMES PATRICK LAWLER
WILLIAM ARTHUR LEARY
ORLAND FREED LEIGHTY
JAMES WALTER MCCARL
ROBERT BELL MCCUTCHEON
WILLIAM JOSEPH MCGOVERN
JOSEPH MICHAEL MCGRATH
BENJAMIN S. MEYER
WILSON LAKE MILLER
EDGAR DORSETT MOORE
RICHARD OWEN MOORE
MICHAEL EDWARD MORAN
CHRISTINO MUNOZ, JR.
NATHANIEL M. NEIMETH
WILLIAM DEMPSTER NESBIT, JR.
WALTER JOSEPH OUELLETTE
WILLIAM H. PARGMAN
WILLIAM HENRY PENGEL
JOHN EDWARD PLESKO
SAMUEL LOUIS POLLACK
PHILIP HAMRICK PUCKETT
GEORGE J. RACICOT

Donald Michael Corcoran
George Lipps Deichmann
Anthony Leon DeVita
Harold C. B. Dumont
Julio Martin Fernandez
Joseph I. Finkelberg
Samuel M. Finkelberg
George Eugene Fitzgerald
Patrick Joseph Foley
Howard Loman Gaston
Clifford Henry Gibbins
William J. Ginnavan, Jr.
Russell Conwell Goble
James Raymond Gorman
Karl Frederick Grempler
David Nevius Hall
Millard William Harris
Francis Irving Hayes
Joseph Harry Higinbotham
Winfield Mason Hogle
Cecil Stanley Holmes
Orville Clayton Hurst
Albert Rice Janes
Herbert Mason Jones
Charles Karayan
Joseph Gorrell Kearfott, Jr.
Harry Howard Kelley
Harold Patrick Langan
Ray Edward Rice
Julio R. Nigaglioni Rodriquez
Jacob Rosenberg
James Earle Rowe
Bruce Woody Rutrough
Lewis Rixey Schonholtz
Vernon Frederick Sherrard
Joseph Richard Short
Frank Jeremiah Shugrue
William Van Rensselaer Sickles
Blair Elwood Simons
William Slifkin
Max Smith
Edward James Styers
Frank Vandevort Swearingen
James Patterson Swing, Jr.
Paul Shackelford Thacker
Carl Livingston Thomas
Clay Boswick Toothman
Roland Adam Tressler
Clarence Trettin
Harold Glenn Waring
Joseph H. Weisberger
John W. Whitehead
Harry Davis Wilson
David Wolfe
Fred H. J. Wong-Fo-Sue

COLLEGE OF EDUCATION

Bachelor of Arts

Cecil Gear Branner
Ethel Agnes Dorsey
Lillian Ophelia Earnest
Angela Dorsey Getty
Wilbur Jerome Glenn
John Groves
Mildred Lee Morris
Eleanor Glotfelty Robey

Bachelor of Science

Olive Willment Castella
Ruth Bailey Engle
James J. Foster
Benton Gilman Hipple, Jr.
Lucy Knox
Frances Dale Lemen
Lilian Hermoine Long
Portia Melown
Vera D. Mullin
Richard Theodore Rizer
Lillis Dale Simmonds
John Raymond Stewart
William E. Tarbell

Special Teachers' Diploma

Cecil Gear Branner
Olive Willment Castella
Ethel Agnes Dorsey
Lillian Ophelia Earnest
D. Kerr Endslow
Ruth Bailey Engle
James J. Foster
Angela Dorsey Getty
Wilbur Jerome Glenn
John Groves
Floyd H. Harper
Benton Gilman Hipple
Lucy Knox
Frances Dale Lemen
Lillian Hermoine Long
Portia Melown
Mildred Lee Morris
Vera D. Mullin
Richard Theodore Rizer
Eleanor Glotfelty Robey
Lillis Dale Simmonds
John Raymond Stewart
William E. Tarbell
Edgar Kinney Walrath
Mary Salome Warrenfeltz

COLLEGE OF ENGINEERING

Mechanical Engineer

John Hartshorn Eiseman

Bachelor of Science

Maurice F. Brothers
Frank T. Chesnut
DeWitt Clinton Donaldson
Gerald Leonard Glass
William B. Hill
John Henry Hoppe
Marshall Hamilton Howard
Ector B. Latham
Alan B. Neumann
Stanley Cowell Orr
Raymond B. Reed
William Joshua Richard
Bernardino Santos
Andrew Ernest Schumann
Joshua Marvel Seney
William Shofnos
Charles Carroll Stoll
Robert James Stranahan
Charles William Wenger
Walter Hempstone Young

COLLEGE OF HOME ECONOMICS

Bachelor of Science

Fanny Ruth Alderman
Helen Mullen DeVol
Sarah Elizabeth Morris
Anna Margaret Murphy
Anne Stone Stewart
Esther Williams

SCHOOL OF LAW

Bachelor of Laws

Bernard Ades
John Davis Alexander
Ralph Oliver Barnett
John Melvin Jarboe
Edgar Seymour Kalb
Estel Crawford Kelley

Sidney Bearman
Sarah R. Berkowitz
Sarah Frances Berman
Richard Douglas Biggs
Leon Windsor Biser
Lloyd Snavely Blickenstaff
James William Bollinger
Aaron Borden
Forrest Fulton Bramble
David Mitchell Brenner
David H. Caplan
Robert Emmett Carney
Paul Edgar Carroll
Edward B. Christensen
Leon Crane
George Revell Coleburn
I. Campbell Connor
Robert Edward Coughlan, Jr.
Theodore Rognald Dankmeyer
Niels Henrikson Debel
Emilie Frances DeLashmutt
Catherine Ruth Dellone
Anna Elizabeth Dimarco
James Joseph Doyle
Milton Benjamin Edelson
Samuel Carroll Epstein
George Farber
Isador E. Feldman
Marion Adam Figinski
Harry H. Fine
Melvin L. Fine
Phylburt Edward Fine
John Joseph Fitzpatrick
Otto Norman Forrest
Albert Harry Frankel
Maurice Glick
Harry E. Goertz
Charles Franklin Goldberg
Milton S. Goldbloom
Raphael S. Goldstein
Joseph Charles Gutberlet
Herman Hammerman
James Owens Honeywell
Hastings Brown Hopkins
Ira C. Hopkins
Howard Edward Hudson
Simon Louis Isaacson
Luther Sentman Lamberd
James Julian Lee
Benjamin Levitas
Louis Ephraim Macht
Stevenson Masson
Beverly Howard Mercer
Irving Woodbury Merrill
Louis Meyerhoff
Charles Ellsworth Moylan
Beach Newell
John Edgar Oxley
Frank Timothy Parr
George Pausch
Louis Peregoff
Arthur Perlman
John Henry Poole
Philip Tillinghast Post
Eberhard Edmund Reutter
William Wallace Rhynhart
Morton Matthew Robinson
Emil A. Roesch
Jeanette Rosner
Roscoe Conkling Rowe
Carl Benjamin Saiontz
Herman Samuelson
Ruth Schapiro
Abe Schlossberg
Ben Bernard Sellman
William Ritchie Semans
Charles Clarence Seymour, Jr.
Jeremiah David Shea
Harry Maurice Shockett
Albert Louis Simpson
Albert Van Deaver Smith
E. Milton Smith
Michael Paul Smith
Howard Barton Stocksdale
William S. Talbott
William Thomas Tippett, Jr.
Hughey Branchard Truitt
Julius Anthony Victor, Jr.
Alfred Freeman Walker
Charles Chrystal Williams
Matilda Dare Williams
Frankie Dismuke Wilson
George Bernard Woelfel

SCHOOL OF MEDICINE

Doctor of Medicine

Albert Louis Anderson
Richard Speight Anderson
Nicholas A. Antonius
T. Bayron Aycock
D. Keith Barnes
Herman Marlin Beerman
Royal Austin Bell
Morris Irwin Berkson
DeLeon Edward Best
Margaret Virginia Beyer
Kenneth Bray Boyd
Thomas Alfred Clawson, Jr.
Arthur Lee Daughtridge
Carlton A. Davenport
Hugh E. Dean
Edward I. Edelman
D. Allen Fields
Abraham Finegold
Harry Richard Fisher
Ira Isador Flax
Joseph Morris Frehling
Irving Friedman
John Trevy Goff
Julius Golembe
Jerome Frank Granoff
Marcus H. Greifinger
Robert Glenn Grose
Philip Grossblatt
Clewell Howell
Philip Jacobson
M. Martyn Kafka
Joseph Clyde Knox
Earle Weant Koons
Frederick William Kratz
James Tolley Marsh
Samuel Marton
Isador Maseritz
Dominick Francis Maurillo
Harvey Russell McConnell
William Oliver McLane, Jr.
Burke Megahan
Benjamin Messinger
Benjamin Miller
Jacob M. Miller
Joseph G. Miller
Clement R. Monroe
Philip Morris
Louis Moriarty
William Henry Morrison, Jr.
Peter G. Motta
Theodore Neustaedter
Domingo M. Nochera
John Edwin Norment
Thelma Viola Owen
Isadore Pachtman
Walter Beatty Parks
Archibald Howell Perry
Bennett Watson Roberts
Edwin Mason Robertson
Leo H. Salvati
Sylvia Mabel Barnes Saurborne
Albert Scagnetti
Morris I. Scheindlinger
Leo B. Schlenger
Louis Ariel Schultz
Joseph Henry Schwab
Antonio Adolfo Scimeca
Robert Victor Seliger
Ralph N. Shapiro
Samuel Robert Siegel
Arnold L. Tabershaw
Richard Bosworth Talbott
Frank Joseph Theuerkauf
Bryan Pope Warren
Alexander Abraham Weinstock
Thomas Bravard Whaley
John Zaslow

James E. Peterman, Cherry Tree, Pennsylvania, was graduated February 1st, 1924.

SCHOOL OF NURSING

Graduate in Nursing

Edith Louisa Alexander
Pauline Vera Appleton
Marian Undine Barnes
Janet McIntosh Bell
Alice Moore Bennett
Pearl Phillips Bennett
Lucy Alvey Brude
Esther Amelia Callaway
Pinkie Lee Compton
Elizabeth Estelle Copenhaver
Marie M. Davis
Mary Elizabeth Fisher
Lola Ruth Forrest
Sara Pierce Headley
Madeleine Hoopes
Claire Virginia Hughes
Dorothy Christine Kraft
Margaret Jane McCormack
Rachel Frazier Moore
Julia Helen Morgart
Jane Tillinghast Pope
Jane Scott
Bernice D. Schaale
Mary Catherine Shaffer
Mary Irene Slez
Lenora Floriene Spencer
Mary Rebecca Sponsler
Robina Haralson Tillinghast
Kathryn Arndt Thomas
Icelene Thompson
Esther Ward Whitworth
Gladys Alberta Wertz

SCHOOL OF PHARMACY

Graduate in Pharmacy

Theodore Archer
Philip Bettigole
Edward J. Bindok
Charles Blechman
Frank Block
Alford Robus Carey
Nathan Cohn
Ernest Michael Corrado
Louis Davidov
Eli Fedder
David Finkelstein
Edward Hamilton Fisher
Paul Glenn Gaver
Minnie Gerber
Victor Goldberg
Jerome Edward Goodman
Harry Greenberg
Harry H. Hantman
William Bradford Hayes
Samuel F. Higger
Reuben Joseph Hirschowitz
Josephine Edna Hopkins
Henry Alvan Jones
Luther Emanuel Little
Edward Stanley Marciniak
Vincent William Matthews
John Donald Meikle
Victor Earl Pass
Aaron A. Paulson
Edward Pfeifer
Israel T. Reamer
George Jaroslav Rezek
Robert Robinson
Morris Rodman
Hyman Solomon Rubinstein
Oscar Samuelson
Richard Thomas Sanner
Michael Scher
Charles John Schmidt, Jr.
George Matthew Schmidt
Benjamin Schoenfeld
John Nelson Schuster
Henry Shapiro
Frank J. Slama
S. Samuel Solomon
Clifton Beall Staley

Francis Patrick Kalb
Joseph Kern
Melvin LeRoy King
Abraham Kirson
Minnie Freda Kolman
Louis Jacob Kronthal
Abraham Levin
Bernard Levin
Morton Levin
James Sanson Strawn
Hyman Jacob Sussman
David Tenner
Manuel J. Vidal
Harvey Walls Voshell
Harry Nelson Warfield
J. Fred Warrenfeltz
Solomon Weiner
Albert Russell Wilkerson

Mrs. Edna K. Wright

Pharmaceutical Chemist

Morris Rockman

MEDALS, PRIZES AND HONORS, 1924

Elected Members of the Phi Kappa Phi, the Honorary Fraternity

Virginia Wemyss Brewer
Frank T. Chesnut
Catherine Lee Clay
Ethel Agnes Dorsey
Lillian Ophelia Earnest
Ruth Bailey Engle
Charles Harold Geist
L. Clarissa Harman
Albert E. Hitchcock
Marshall Hamilton Howard
Frances Dale Lemen
Dean Stanley Lesher
*Robert Hartshorne Miller, Jr.
Mildred Lee Morris
Anna Margaret Murphy
Alan B. Neumann
William Bouic Penn
Benjamin Hamilton Roche
Russell Grove Rothgeb
Albert Lee Schrader
Anne Stone Stewart
Edgar Kinney Walrath
Esther Louise Williams
H. Orbell Yates, Jr.

*John Lupton Mecartney

Citizenship Medal offered by Mr. H. C. Byrd, Class of 1908

Charles Harold Geist

Citizenship Prize offered by Mrs. Albert F. Woods

Esther Louise Williams

Athletic Medal offered by the Class of 1908

Thomas Jackson McQuade

Goddard Medal offered by Mrs. Annie K. Goddard James

William Bouic Penn

Alumni Association Debate Medal

Joseph Alphonse Macko

Sigma Phi Sigma Freshman Medal
WINIFRED MARY MCMINIMY

Alpha Zeta Agricultural Freshman Medal
MARIAN HELEN CONNER

Dinah Berman Memorial Medal offered by Benjamin Berman
SAMUEL LEBOWITZ

Public Speaking Prize offered by W. D. Porter
ALAN B. NEUMANN

The Oratorical Association of Maryland Colleges offers each year Gold Medals for the First and Second Places in an Oratorical Contest.
Medal for First Place Awarded to
ELEANOR GLOTFELTY ROBEY

"President's Cup" for Excellence in Debate, offered by Dr. H. J. Patterson
POE LITERARY SOCIETY

"Governor's Drill Cup" offered by His Excellency, Honorable Albert C. Ritchie, Governor of Maryland
COMPANY B

President's Military Prize, offered by Dr. Albert F. Woods
CADET MAJOR THOMAS JACKSON MCQUADE

Military Medal offered by the Class of 1899
CADET WILLIAM ALBERT RYON

Military Department Prize offered to the Best Company Commander
CADET CAPTAIN LOUIS FRANCIS MELCHOIR

Inspection Day Cup, offered by Saks & Company
COMPANY B

Washington Chapter Alumni Military Cup
2ND PLATOON, COMPANY C—COMMANDED BY JOHN LUPTON MECARTNEY

Rifle Cup, offered by Military Department
FRESHMAN CLASS

Military Department Prize
MAURICE F. BROTHERS

WAR DEPARTMENT AWARDS OF COMMISSIONS AS SECOND LIEUTENANTS IN THE INFANTRY RESERVE CORPS

MAURICE F. BROTHERS
RALPH MCTIER GRAHAM
THOMAS JAMES HOLMES
MARSHALL HAMILTON HOWARD
GEORGE JAMES LUCKEY
HOUSDEN LANE MARSHALL
THOMAS JACKSON MCQUADE
JOHN LUPTON MECARTNEY
NELSON TINDALL MEEDS
LOUIS FRANCIS MELCHOIR
STANLEY COWELL ORR
BENJAMIN HAMILTON ROCHE
WARRINGTON RAPHAEL SANDERS
JOSHUA MARVEL SENEY
EUGENE ROGER STEELE
RITCHIE PATTERSON TAYLOR
HENRY MADISON WALTER

AWARDS OF MILITARY COMMISSIONS

THOMAS JACKSON MCQUADE	Major
THOMAS JAMES HOLMES	Captain
LOUIS FRANCIS MELCHOIR	Captain
BENJAMIN HAMILTON ROCHE	Captain
RITCHIE PATTERSON TAYLOR	Captain
MAURICE F. BROTHERS	First Lieutenant
RALPH MCTIER GRAHAM	First Lieutenant
JOHN LUPTON MECARTNEY	First Lieutenant
STANLEY COWELL ORR	First Lieutenant
WARRINGTON RAPHAEL SANDERS	First Lieutenant
HENRY MADISON WALTER	First Lieutenant
MARSHALL HAMILTON HOWARD	Second Lieutenant
GEORGE JAMES LUCKEY	Second Lieutenant
HOUSDEN LANE MARSHALL	Second Lieutenant
NELSON TINDALL MEEDS	Second Lieutenant
JOSHUA MARVEL SENEY	Second Lieutenant
EUGENE ROGER STEELE	Second Lieutenant

HONORABLE MENTION

College of Agriculture

First Honors—
RUSSELL GROVE ROTHGEB, ROBERT HARTSHORNE MILLER, JR.

Second Honors—H. ORBELL YATES, JR., EDGAR KINNEY WALRATH, WILLIAM BOUIC PENN

College of Arts and Sciences

First Honors—VIRGINIA WEMYSS BREWER, DEAN STANLEY LESHER, CATHERINE LEE CLAY

Second Honors—L. CLARISSA HARMAN, ALBERT E. HITCHCOCK, VIRGINIA IRVING SPENCE

College of Education

First Honors—RUTH BAILEY ENGLE, ETHEL AGNES DORSEY
Second Honors—LILLIAN OPHELIA EARNEST, ANGELA DORSEY GETTY

College of Engineering

First Honors—MARSHALL HAMILTON HOWARD, FRANK T. CHESNUT
Second Honors—CHARLES CARROLL STOLL, ALAN B. NEUMANN

College of Home Economics

First Honors—ANNE STONE STEWART

College of Commerce and Business Administration

Phi Delta Gamma Sorority Gold Key for Scholarship—HELEN GOULD
Delta Sigma Pi Fraternity Gold Key to Male Student for Highest Scholarship—PORTER T. WHITE

School of Dentistry

University Gold Medal for Scholarship
WILLIS W. BOATMAN — WILLIAM CLARENCE ALFORD

First Honorable Mention
KARL FREDERICK GREMPLER

Second Honorable Mention
JULIO MARTIN FERNANDEZ — DAVID NEVIUS HALL

School of Law

Prize of $100 for the highest average grade for the entire course
FORREST FULTON BRAMBLE

Prize of $100 for the most meritorious thesis
JOHN DAVIS ALEXANDER

Prize of $50 for honor case in practice court
WILLIAM RITCHIE SEMANS

School of Medicine

University Prize, Gold Medal—LOUIS ARIEL SCHULTZ

CERTIFICATE OF HONOR

ALEXANDER A. WEINSTOCK — ANTONIO A. SCIMECA
MARCUS H. GREIFINGER — JOHN EDWIN NORMENT
KENNETH BRAY BOYD — JEROME FRANK GRANOFF
ROBERT VICTOR SELIGER — CLEWELL HOWELL
WILLIAM OLIVER McLANE, JR.

The Dr. Jose L. Hirsch Memorial Prize of $50 for Excellence in Pathology during the second and third years
ANTONIO A. SCIMECA

School of Nursing

University of Maryland Nurses' Alumnae Association Scholarship to Columbia University
LUCY ALVEY BRUDE
University of Maryland Nurses' Alumnae Association Pin and Membership in the Association
JULIA HELEN MORGART

School of Pharmacy

Gold Medal for General Excellence—HENRY ALVIN JONES
Simon Prize for Practical Chemistry—HENRY ALVIN JONES

CERTIFICATE OF HONOR

HARRY H. HANTMAN — MORRIS RODMAN

Honorable Mention—First Year Class
ABRAHAM MORTON GREENBERG — EMANUEL SHULMAN
ERNEST LEVI

BATTALION ORGANIZATION R. O. T. C. UNIT UNIVERSITY OF MARYLAND

JOSEPH C. BURGER, Lieut.-Colonel, Unit Commander
EMANUEL F. ZALESAK. Major, Commanding Battalion
GEORGE R. HEINE, First Lieut.-Adjutant
JOHN F. HOUGH, First Lieut.-Supply Officer

COMPANY A	COMPANY B	COMPANY C	COMPANY D
Captains			
Douglas D. Burnside	John H. Baker	John F. Sullivan	George P. Gardner
First Lieutenant, Second in Command			
Paul B. Harlan	Wilbur Pearce	William H. Merrill	Joseph W. Jones
First Lieutenants			
George E. Bouis	Paul Morris	James L. Dougall	Selwyn L. Powers
Fred H. Rogers	Arthur G. Prangley	Barnwell R. King	Houghton G. Clapp
Charles C. Castella			
Second Lieutenants			
James H. Hubbard	Daniel R. Staley	Edwin L. Ford	
	Merle L. Bowser		

Non-commissioned Staff

JOSEPH B. SETH, Battalion Sergeant-Major
WILLIAM R. TRIMBLE, Battalion Supply Sergeant

First Sergeants			
Eric C. Metzeroth	Edward M. Barron	George T. O'Neill	Arthur E. Bonnet
Platoon Sergeants			
Wm. H. Whiteford	Edward M. Lohse	Thomas B. Crawford	E. Russell Allen
Lawrence L. Lehman	Joseph J. Yilek	Leland H. Cheek	

Sergeants

Ernest H. Shipley
George E. Melchoir
Theodore W. Johnson
Joseph C. Longridge
Jean H. Brayton
Edward G. Danner
J. Leonard Jones
Lionel K. Ensor
Ira M. Staley
Hugh D. Reading
E. Ellesmere McKeige
Lionel E. Newcomer
Edward S. Thompson
Alfred H. Clark
Paul E. Bauer
G. Madison McCauley
M. Stewart Whaley
William E. Bishop
W. Gilbert Dent

Corporals

A. C. Boyd
M. Burgee
J. Tonkin
E. Rothgeb
R. B. Luckey
R. E. L. Morris
R. W. Rohrbaugh
C. L. Probst
B. W. LeSueur
W. S. Hill
M. Hickox
S. E. Jenkins
E. B. Gary
W. H. Elgin
J. H. Burns
R. S. Whiteford
M. B. Stevens
E. B. Tenny
M. H. Sprecher
A. Noll
S. L. Crosthwait
E. S. Lanier
F. N. Dodge
H. O. Embry
C. C. Beach
R. S. Hill
G. M. Shear
J. G. Gray
A. A. Wentzel
K. B. Frazier
A. A. Muzzy
W. M. Leaf
R. E. Coffman
H. S. Murray
H. R. McClay
H. Fox
L. R. Schreiner
H. A. Bonnett
J. H. Compton
T. S. Bowyer
W. L. Peverill
A. E. Hassler
R. L. Stevens
E. A. Beavens
M. O. Wooster
W. Bewley
N. A. Eaton
H. F. Garber
T. W. Sherriff
W. L. Ward
P. W. Triplett
K. F. Spence
J. H. Hornbaker

CADET BAND

Band under direction of Warrant Officer, James Simmons, Army Music School, Washington Barracks, Washington, D. C.

REGISTER OF STUDENTS, 1924-1925

COLLEGE OF AGRICULTURE

SENIOR CLASS

Anderson, Wilton A., College Park
Baker, John H., Winchester, Va.
*Banfield, Frank W., Brookland, D. C.
*Bonnet, Harold M., E. St. Johnsbury, Ver.
Bouis, George E., Mt. Washington
Bromley, Walter D., Pocomoke City
Buckman, Horace D., Washington, D. C.
Bull, Fred L., Pocomoke City
Cluff, Francis P., Pocomoke City
Dawson, Walker M., Silver Spring
England, Howard A., Rising Sun
Ganoza, Luis, Trujillo, Peru
Harlan, Paul B., Churchville
Heine, George R., Washington, D. C.
*Hevessy, Michael, Gloucester Point, Va.
*Hohman, Charles W., Berwyn
Hough, John F., Mt. Rainier
*Lincoln, Leonard B., Takoma Park
*Lowman, Clarence A., Funkstown
Mills, James E., Hyattsville
Myers, Victor S., Washington, D. C.
Nielson, Knute W., Washington, D. C.
*Parlett, W. A., Berwyn
Pearce, Wilbur, Sparks
Price, M. Myron, Queenstown
Quaintance, H. W., Silver Springs
*Ritter, Floyd, Middletown, Va.
*Shoemaker, Charles, Bethesda
Sleasman, Arthur R., Smithsburg
*Stanley, E. A., Bluefield, W. Va.
Stuart, Leander S., Pepperell, Mass.
Summerill, Richard L., Penn's Grove, N.J.
*Trower, Hugh C., Norfolk, Va.
Vivanco, Carlos, D., Arequipa, Peru
Walker, Dwight T., Mt. Airy
Worthington, Leland G., Berwyn
Zalesak, Emanuel F., Washington, D. C.

JUNIOR CLASS

Ady, Albert A., Sharon
Anderson, James H., Washington, D. C.
Bauer, Paul E., Washington, D. C.
Bennett, C. Leslie, Upper Marlboro
*Carter, John H., Washington, D. C.
Comer, Walter R., Frederick
*Crotty, Leo A., Utica, N. Y.
Danner, Edward G., Unionville
Dieckmann, Herbert, Elm Grove, W. Va.
Ditman, Lewis P., Westminster
Endslow, Joseph S., Mt. Joy, Pa.
Ensor, Lionel K., Sparks
Evans, William H., Pocomoke City
Faber, John E., Washington, D .C.
Higgins, Warren T., Hyattsville
Hoopes, Joseph D., Bel Air
Hubbard, Harry S., Cordova
Johnson, Theodore W., Washington, D. C.
Kelley, Thomas C., Washington, D. C.
King, Eugene W., Branchville
*McGlone, Joseph, Baltimore
*Moffitt, William J., Beltsville
Morsell, John B., Bowen's
Newcomer, L. E., Harper's Ferry, W. Va.
Price, Kent S., Centreville
*Reed, Emmons H., Denton
Remsberg, Charles H., Middletown
*Richardson, Harry F., Berwyn
Ronsaville, Edwin W., Kensington
Schrider, Paul P., Takoma Park, D. C.
Shipley, Ernest H., Frederick
Skirven, James F., Chestertown
Smith, Paul W., Washington, D. C.
Stokes, George C. A., Cockeysville
Sullivan, John F., Washington, D. C.
Supplee, William C., Washington, D. C.
*Taylor, Letha E., Riverdale
Walker, Earnest A., Mt. Airy
Whaley, M. Stewart, Washington, D. C.
Wilson, J. Kenneth, Pylesville
Worrilow, George M., North East

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* Denotes students detailed to the University by the Veteran's Bureau.
†Denotes students who have transferred to other Colleges within the University.

SOPHOMORE CLASS

Abrams, George J., Washington, D. C.
Bishoff, George E., Oakland
Bowyer Thomas S., Towson
Coffman, Richard E., Hagerstown
Cole, Cecil F., Jr., Fulton
Conner, M. Helen, Washington, D. C.
Cottman, Harry T., Pocomoke
Crosthwait, Samuel L., Hyattsville
Dallas, David, Salisbury
Dodge, Frederick N., Washington, D. C.
Downey, Mylo S., Williamsport
Embrey, Howard O., Washington, D. C.
England, G. William, Rising Sun
Fouts, Robert M., Washington, D. C.
Gray, James G., Riverdale
Gunby, Paul B., Marion
*Johnston, Charles A., Philadelphia, Pa.
Kapp, Robert P., Ellerslie
Krein, John G., Baltimore
Moore, William H., Boyds
Nock, Alton E., Stockton
Randolph, W. H., Jr., Seminary Hill, Va.
*Romjue, Andrew G., Washington, D. C.
Schmidt, Englebert H., Washington, D. C.
Shear, G. Myron, Rosslyn, Va.
Stockslager, Herman L., Smithsburg
Tenney, Edward M., Jr., Hagerstown
Thornton, Norwood C., Chesapeake City
Yost, Henry E., Grantsville

FRESHMAN CLASS

Adams, Donald, Chevy Chase
Anderegg, Carl, Washington, D. C.
Arzberger, G. A., Jr., Ridgewood, N. J.
Bonnett, Richard D., Washington, D. C.
Brown, Henry, Washington, D. C.
Carrington, O. Raymond, S. Orange, N. J.
Chapman, W. Walter, Jr., Chestertown
Chavarria, Rafael A., San Jose, Costa Rica
DeMarco, Raffaele, Washington, D. C.
Dunnigan, John E., Pylesville
Eaton, Norwood A., Washington, D. C.
Fahey, Daniel C., Jr., Riverdale
Garden, William M., Anacostia, D. C.
Godbold, Josephine, Cabin John
Harrison, Joseph G., Berlin
Harrison, I. Burbage, Berln
Hicks, William L., Gambrills
Leavitt, Roswell, Washington, D. C.
Linkous, Fred C., Pylesville
McCurdy, Mary Jane, Silver Spring
McGahey, John E., Washington, D. C.
Miller, Bernard H., Hampstead
Molesworth, Samuel R., Mt. Airy
Ostrolenk, Morris, Washington, D. C.
Phucas, Andrew B., Washington, D. C.
*Powell, Bartwell B., Montgomery City, Mo.
Reich, Geneva E., Washington, D. C.
Routzahn, John T., Middletown
Sachs, Mendes H., Baltimore
Sewell, Reese L., Ridgely
Stanton, Harry H., Grantsville
Stubbs, Donald S., Street
Thomas, John L., Washington, D. C.
Timmons, Charles L., Snow Hill
Viale, Mark R., Pittsfield, Mass.
Winterberg, Samuel H., Grantsville
Witter, J. Franklin, Frederick
Woodward, John R., Washington, D. C.

TWO-YEAR AGRICULTURAL CLASS

*Ayres, R. W., Washington, D. C.
*Barber, Charles, Elkridge
*Beall, Morris, Rockville
*Boender, John A., Laurel
*Bollinger, Peary R., Reisterstown
*Busch, Rudolph, Shelltown
*Callahan, C. T., Baltimore
*Callis, Cecil R., Washington, D. C.
*Chassagne, Leo J., Raspburg
*Cogswell, Fred., Sykesville
*Crozier, Henry T., Clinton
*Dawson, James H., Herndon, Va.
*Dobbins, William E., Laurel
*Duke, John Benson, Baltimore
*Fee, Frank, Baltimore
*Fiorini, Michael, Ironsides
*Fisher, Charles E., Herndon, Va.
*Fitzwater, Oscar F., Moorefield, W. Va.
*Fletcher, John C., Bluemont, Va.
*Fletcher, Raymond M., La Plata
*Fulk, Marvel M., Martinsburg, W. Va.
*Hall, Harry, Purcellville, Va.
*Hamlin, Harry, Newark, N. J.
*Harnsburger, John H., Warrentown, Va.
*Haynes, Augustus F., Washington, D. C.
*Heath, Frank M., Silver Springs
*Hedberg, Edwin L., Beltsville
*Hiser, Bernard, Washington, D. C.
*Hughey, Henry L., Washington, D. C.
*Iseminger, Lester D., Smithsburg

*Jackson, Harry, Childs Station
*James, H. V., Hyattsville
*Jeffries, Mark P., Brandywine
*Johnson, Leo C., East Falls Church, Va.
*Jones, John S., Pocomoke
*Jones, Paxton C., Kearneysville, W. Va.
Joyce, Fletcher, Millersville
*Kearns, Michael J., Culpeper, Va.
*Kurtz, Phillip J., Perry Point
*Lample, Charles S., Baltimore
Learned, Frank C., Washington, D. C.
*Llewellyn, C. P., Dunn-Loring, Va.
*Long, Ludwell S., Washington, D. C.
*McAndrews, Joseph B., Hyattsville
*McCarthy, Harry L., Brookville
*McCabe, Henry L., Washington, D. C.
*McGarvey, John, Baltimore
*Mess, George B., Laurel
*Moore. Peter L., Brandywine
*Myers, John A., Tom's Brook, Va.
*Newberry, James R., Brandywine
*Norris, Nathan, Washington, D. C.
*Ollerenshaw, James J., Washington, D. C.
*O'Rourke, James H., Lorton, Va.
*Osborne, Herman B., Baltimore
*Oswald, Louis H., Ballston, Va.
Parran, Douglas A., Lusby
Polyette, John N., Westover
*Poole, Harry C., Ednor
*Poppen, Alvin W., Toluca, Va.
*Potter, Albert R., Windy Hill
*Price, Jacob J., Easton
*Richards, Felix W., Accotink, Va.
*Richards, Philip W., White Plains, Va.
Rodeffer, Earl, Washington, D. C.
*Ross, Charles E., Oriole
*Ross, Charles F., Hampstead
*Schmedegaard, George W., Laurel
Seabold, Charles W., Glyndon
*Senne, Henry L., Accotink, Va.
*Schiff, Wm. G., Emmittsville
*Simpich, Ira M., Landover
*Sprinkle, Paul C., Washington, D. C.
*Thompson, Franklin H., Patapsco Sta.
*Van Horn, George L., Silver Springs
*Walker, Francis M., Washington, D. C.
*Wardles, William I., Anacostia, D. C.
*Webb, Dorsey L., Parksley, Va.
*White, George A., Berwyn
*Wiley, Benjamin H., Reisterstown
*Wilson, Aseal S., Sweet Air
*Woodward, Amos R., Woodbine

UNCLASSIFIED

Aston, Arthur C., Gambrills
Campbell, Thomas A., Edgewood
Richardson, Edward M., Washington
Smith, Edward J., Riverdale
Stewart, Harry A., Rustburg, Va.
Thoron, Benjamin W., Upper Marlboro

WINTER SHORT COURSE IN DAIRYING

Amoss, William D., Fallston
Brown, Maurice O., North East
Buck, Courtney C., Ellicott City
Burall, Edith C., New Market
Chapman, Ridgely, Washington, D. C.
Crum, Bruce E., Westminster
Duke, Wm. T., Cumberland
Gaddis, A. R., Baltimore
Gaddis, R. F., Baltimore
Goodwin, Clinton L., Reisterstown
Handley, James H., Delta, Pa.
Hyland, James F., College Park
Main, Floyd C., Middlestown
Mercer, Earl W. H., Frederick
Nelson, Frederick T., Monkton
Regner, August J., Raspburg
Reifsnider, Leonard D., Keymar
Rosett, Arthur, Baltimore
Scheiblein, C. L., Baltimore
Schaeffer, Earl E., Westminster
Schmiedicke, Otto, Baltimore
Seidell, Frank H., Baltimore
Shearer, Leroy C., Baltimore
Shehan, John W., Baltimore
Smither, Charles W., Baltimore
Tackett, C. S., Baltimore
Thies, Carl W., Beltsville
VanLeuvan, William. Baltimore
Voigt, Richard A., McLean, Va.
Wagner, Lawrence, Baltimore
Wolfe, Francis A., Belair
Zentz, Chester T., Rocky Bridge
Zentz, Guy C., Westminster.

COLLEGE OF ARTS AND SCIENCES

SENIOR CLASS

Bowen, G. Carville, Hyattsville
Burger, Joseph C., Washington, D. C.
Clapp, Houghton G., Mt. Rainier
Coe, Grace, Berlin
Dorsey, Anna H. E., Ellicott City
Dougall, J. L., Garrett Park
Duke, Henry E., Baltimore
Flenner, Elizabeth M., College Park
Ford, Edwin L., Washington, D. C.
Froehlich, Wilfred E., Crisfield

Graham, Ralph M., Washington, D. C.
Greagor, Oswald H., Baltimore
Hill, Minnie M., Somerset
†Horn, Millard J., Washington, D. C.
Jones, Joseph W., Washington, D. C.
Juska, Edward F., Elberon, N. J.
Luckey, George J., Frederick
Macko, Joseph A., Homestead, Pa.
Marden, Tilghman B., Jr., Baltimore
Marshall, Housden L., Washington, D. C.
Massicot, Marie M., Columbus, Ga.
McClung, Marvin R., Morrisville
Merrill, William H., Pocomoke
Nash, Mabel M., Mt. Rainier
Newman, Saul C., Hartford, Conn.
Parks, Leston C., Washington, D. C.
Peebles, Irvin, Lonaconing
Phillips, Gareld E., Hagerstown
Powers, Selwyn L., Hyattsville
Rivkin, Joseph L., Hartford, Conn.
Scott, Edward A., Bristol, Tenn.
Scott, William M., Princess Anne
Stambaugh, Bruce T., Woodsboro
Tan, Felix H., Baltimore
Taylor, Ritchie P., Washington, D. C.
Wheaton, I. Evan, Greenwich, N. J.
White, Russell B., Kittanning, Pa.
Wilson, N. John, Frederick
Zelwis, Minerva, Pittsburgh, Pa.

JUNIOR CLASS

Barber, Charles T., Hagerstown
*Bonnett, Harold A., Washington, D. C.
Bounds, James A., Sharptown
Bounds, James H., Salisbury
Browne, Tom A., Chevy Chase
Christmas, Edward A., Upper Marlboro
Clark, Alfred H., Washington, D. C.
Clement, Eugenia W., Washington, D. C.
†Comer, Walter R., Frederick
Dent, Wade Gilbert, Jr., Clinton
†Ennis, John E., Pocomoke
Evans, Edward T., Cumberland
Fleming, Christian M., Baltimore
Fogg, George W., Bangor, Maine
Green, Winship I., Kensington
Hall, Irving, Chevy Chase
Heber, Carl H., Cumberland
Holmes, George K., Washington, D. C.
Hopwood, Mason H., Washington, D. C.
Hubbard, James H., Cordova
Huffington, Paul E., Allen
Lanigan, John Ralph, Washington, D. C.
Grosdidier, Grace, Riverdale
Lipman, Leonard H., New Brunswick, N.J.
Lohse, Edward M., Washington, D. C.
Longyear, Edward B., Poplar Hill
Lowe, Cletus D., Shepherdstown, W. Va.
McDonald, Charles K., Barton
McClay, Harold R., Hyattsville
Melchoir, George E., Marriottsville
Metzeroth, Eric C., Washington, D. C.
Merrick, Charles H. R., Barclay
Mitchell, John H., La Plata
O'Neil, George T., Silver Spring
Osborn, A. Downey, College Park
Parsons, Arthur C., Ormsby, Pa.
Pfeiffer, Karl G., Washington, D. C.
†Porton, Harry P., Washington, D. C.
Reading, Hugh D., Rockville
Rice, John E., Frederick
Schiff, Frances, New York, N. Y.
Scott, Fred S., Galax, Virginia
Spinney, Archie, Baltimore
Stoner, Kenneth G., Hagerstown
Strite, John H., Clearspring
Sumner, Howard C., Washington, D. C.
Tan, Joseph, Manila, P. I.
Taylor, Thelma I., Washington, D. C.
Tingley, Egbert F., Hyattsville
Whelpley, Louisa R., Riverdale
†Whiteford, W. Hamilton, Balitmore
Winkjer, Thelma H., Washington, D. C.
Winship, Lawrence A., Washington, D.C.
Wolf, Patricia, New York, N. Y.
Wright, Nadia V., Washington, D. C.

SOPHOMORE CLASS

Achstetter, Joseph C., Washington, D. C.
Atkinson, Rachael B., Washington, D. C.
Baldwin, Kenneth M., Baltimore
Baumgartner, Eugene I., Oakland
Beach, Charles C., Washington, D. C.
Beachley, Amos B., Middletown
Beavens, Elmer A., Washington, D. C.
Behring, Julia L., Washington, D. C.
Bottum, Merritt H., Glen Rock, N. J.
Bowie, Andrew K., Riverdale
Bowman, Craig, Rockville
Brightman, C. Gordon, Jr., Baltimore
Bromley, Luther F., Stockton
Bucciarelli, John A., New Caanan, Conn.
Burgee, Miel D., Monrovia
Burns, John H., Sparrows Point
Cardwell, John L., Washington, D. C.
Cheek, Leland H., Washington, D. C.
Clagett, Helen B., Hyattsville
Clarke, Edward J., Cleveland, Ohio

Clayton, Thompson B., Chevy Chase
Cockerille, Frank O., Washington, D. C.
Coghill, Kenchin, Brooklyn, N. Y.
Collins, Charlotte M., Bishopville
Compton, John H., College Park
Day, William H., West Haven, Conn.
Deibert, Elmore R., Havre de Grace
Delgrego, Arthur L., New Haven, Conn.
DePalma, Anthony F., Orange, N. J.
Duffey, George L., Denton
Fisher, William A., Washington, D. C.
Frazier, Karl B., Hurlock
Futterer, Charles, Hagerstown
Gary, Edwin B., Takoma Park
Geiger, Clarence E., Washington, D. C.
Glenum, Harry, Washington, D. C.
Graham, William C., North East
Granger, Albert F., Kattskill Bay, N. Y.
Haeseker, Margaret E., Baltimore
Halper, Arthur M., New York, N. Y.
Harp, Charles W., Hagerstown
Harper, Douglas B., Royal Oak
Heiss, Maxine, Washington, D. C.
Herzog, Fred C., Washington, D. C.
Hill, William S., Upper Marlboro
Hornbaker, John H., Hagerstown
Hough, George W., Washington, D. C.
Jacobs, Irene, Washington, D. C.
Jones, Joseph L., Sparrows Point
Jones, Llewelyn, Baltimore
Katzin, Eugene M., Newark, N. J.
Kelchner, Harry J., Palmerton, Pa.
Kraft, Mary Lou, Ellicott City
Leaf, Wilbur M., Washington, D. C.
Lipkin, Benjamin A., Patterson, N. J.
Luckey, Robert B., Hyattsville
Markwood, Emmett H., Washington, D. C.
May, Alfred A., Washington, D. C.
McCabe, Joe I., Baltimore
McGreevy, Joan F., Washington, D. C.
McInerney, John M., Washington, D. C.
McMinimy, Winifred M., Woodridge, D. C.
Mead, Irene C., College Park
†Mills, James B., Delmar
Mills, William D., Salisbury
Missionellie, William, Hawthorne, N. J.
Moler, Bernice V., Hyattsville
Morris, Robert E. L., Hyattsville
Nevitt, Lillian, Colonial Beach, Virginia
O'Donnell, Roger, Jr., Washington, D. C.
Petrie, Kenneth, Winchester, Va.
Petruska, Albert J., Washington, D. C.
Powell, Luther E., Woodsboro
Propst, Cecil F., Laurel
Roberts, Eldred, Westernport
Rothgeb, Edwin E., Washington, D. C.
Sandford, Warren F., Asheville, N. C.
Sasscer, Buchanan B., Upper Marlboro
Savage, Mary E., Rockville
Seal, Eleanor C., Takoma Park, D. C.
Seltzer, Olive M., Washington, D. C.
Sheriff, Leroy W., Landover
Shipley, Linwood P., Hyattsville
Shrewsbury, Madeline, Westernport
Shubert, Edward, Erie, Pa.
Sims, Martha T., Washington, D. C.
Snouffer, Edward N., Jr., Buckeystown
Snyder, Wilbur N., Randallstown
Spence, Mary, College Park
Spencer, Ernest, Bel Alton
Sprecher, Milford H., Sharpsburg
Stevens, Myron B., Chevy Chase
Stevenson, Kathryn C., Mt. Lake Park
Taylor, Elizabeth J., Washington, D. C.
Terhune, Frank H., Ridgewood, N. J.
Till, Randolph W., Hyattsville
Tippett, Howard G., Cheltenbam
Tonkin, John, College Park
Truesdale, Phillip B., Waupaca, Wis.
Walker, Charles L., Washington, D. C.
Waters, Douglas J., Germantown
Wellens, Edna M., Washington, D. C.
Wentzel, Alton A., Carlisle, Pa.
†Whiteford, Roger S., Baltimore
Yeager, George H., Cumberland

FRESHMAN CLASS

Ady, Samuel J., Jr., Sharon
Aldrey, Jorge M., San Juan, Porto Rico
Bailey, Herman E., Washington, D. C.
Bailey, Raymond A., Jr., Baltimore
Baker, Wyrth P., Washington, D. C.
Barr, William C., Jr., Washington, D. C.
Bartlett, Richard F., Hartford, Conn.
Benton, Gordon, Stevensville
Berkelhammer, Albert M., Trenton, N. J.
Bishoff, V. Rosalie, Oakland
Blackistone, Robert D., Jr., River Springs
Blandford, William W., Catonsville
Bobbitt, James M., Baltimore
Bond, Henry J., Tallahassee, Fla.
Brackbill, Frank Y., Berwyn
Brayshaw, Thomas H., Glen Burnie
Brubaker, Robert H., Mt. Joy, Pa.
Burleigh, William, Jr., Washington, D. C.
Burnside, Edith F., Washington, D. C.
Burnside, Edna M., Washington, D. C.
Calandrella, Ralph, New Haven, Conn.
Cheek, William R., Washington, D. C.
Church, Constance, Beltsville
Clausell, Joaquin M., Mexico City, Mex.
Clements, Rocco F., Lucerne, Pa.
Collins, George B., Lanham

Collins, Milton S., Berlin
Cooper, Roger N., Parkton
Corkran, Charles T., Vienna
Currier, Rodney P., Washington, D. C.
DeMarco, James A., Washington, D. C.
DeMaria, D. James, Sparrows Point
DeRan, James J., Pylesville
Dick, J. McFadden, Salisbury
Doerr, Paul L., Washington, D. C.
Dovener, Robert F., Cabin John
Eastlack, William L., Camden, N. J.
Eckert, Evelyn V., North Beach
Elliott, Thelma A., Washington, D. C.
Essex, Alma F., Lanham
Evans, Frederick H., Washington, D. C.
Faith, William L., Hancock
Freeney, Frances F., Delmar
Gadd, John D., Centreville
Gentile, Charles A., New Haven, Conn.
Gibson, Stuart B., Williamsport, Pa.
Gleeson, Eileen V. M., Woonsocket, R. I.
Goldstein, Robert, Newark, N. J.
Goodstein, Oscar E., Uniontown, Pa.
Greenblatt, Harold F., New London, Conn.
Greenlaw, Irving R., Ridgewood, N. J.
Gruver, Frances I., Hyattsville
Gunther, Clarence S., Washington, D. C.
Haimowicz, Samuel J., Weehawken, N. J.
†Harrison, I. Burbage, Berlin
Haupt, Nathan W., Shamokin, Pa.
Hay, John O., Kensington
Hearn, Samuel S., Laurel
Helldorfer, Joseph O., Baltimore
Herwick, Albert L., Barberton, Ohio
Hoar, Robert E., Ridgewood, N. J.
Hosen, Harris, Baltimore
Howard, M. Louise, Dayton
Humphrey, Llewellyn W., Glen Echo
Hunt, Ione, Berwyn
Jacobs, Herman, Brooklyn, N. Y.
James, Robert M., Hyattsville
Jones, Samuel T., Dares Wharf
Knight, Albin F., Rockville
Kyle, Wesley H., Waterbury
Laleger, Grace E., Washington, D. C.
Lanier, Eldred S., Washington, D. C.
Lashley, Reginald E., Cumberland
Lautenburg, Cheldon R., Brooklyn, N. Y.
Lebowitz, Louis, Mt. Rainier
Lehnert, Otto F., Washington, D. C.
Lewandoski, Henry C., Baltimore
Lewis, Frank, Whaleyville
Longenberger, Donald T., Chevy Chase
Louft, Rubin, Capital Heights
Lubin, Paul, Baltimore
Maps, John E., Asbury Park, N. J.
Marlow, Louise, College Park
Marrero, Juan B., Dorado, Porto Rico
Martz, Fred E., Paxinos, Pa.
Mauck, Buford W., Luray, Va.
†McCurry, Joel C., Kenilworth, D. C.
McDorman, Francis L., Mt. Washington
McEntee, Howard G., Ridgewood, N. J.
McFadden, Emory L., Pylesville
McGann, Burton A., Washington, D. C.
Merrill, Charles M., Washington, D. C.
Merriman, Donald, Wadsworth, Ohio
Middleton, Frederic A., Washington, D. C.
Miliner, Nona A., Stevensville
Miller, Charles M., Baltimore
Miller, Isaac, Jersey City, N. J.
Murphy, Harry T., Baltimore
Myers, John A., Washington, D. C.
Nadal, Jesus M., Mayageuz, Porto Rico
Newman, Alpheus C., Belleview
Nichols, John K., Delmar
Nocera, Francisco, Jr., Mayageuz, Porto Rico
Olds, Edson B., Jr., Silver Springs
Powers, Ralph W., Hyattsville
Press, William H., Washington, D. C.
Profe, Paul A., Washington, D. C.
Robbin, Barney M., Washington, D. C.
Robertson, John T., Jr., Irvington
Romano, Nicholas M., Roseto, Pa.
Rosenstein, Sidney, Jersey City, N. J.
Rozum, John C., Sloatsburg, N. Y.
Ruhe, Harry A., Chicago Heights, Ill.
Ryerson, John E., Washington, D. C.
Sanborn, Sherman K., Friendship Heights
Savage, John E., Washington, D. C.
Schuman, Nathan G., Washington, D. C.
Shoemaker, Norman, Point Pleasant Beach, N. J.
Shook, Donald E., Washington, D. C.
Shreve, William O., Washington, D. C.
Simonds, Florence M., Herndon, Va.
Sleasman, Charles W., Smithsburg
Slemmer, Carl F., Cumberland
Smith, John M., Washington, D. C.
Snouffer, Roger V., Buckeystown
Spottswood, Henry N., Washington, D. C.
Stiffler, Bartram F., Brentwood
Strong, Thomas S., Laurel
Talley, Horace W., Washington, D. C.
Teleky, Helen E., New York, N. Y.
Thompson, Nova O., Cumberland
Travieso, Luis F., San Juan, Porto Rico
Troth, Edward L., Chevy Chase
Van Sickler, Carr T., Washington, D. C.
Vaughn, Glynn T., Dundalk
Venezky, Adelyn B., Hyattsville
Waller, William K., Queenstown
Ward, Herbert K., Rockville
Weer, James E., Sykesville
Weiland, Glenn S., Hagerstown
Weisman, Ephraim, Baltimore
Wiley, William, Riverhead, N. Y.

Willig, Clarence H., Swedesboro, N. J.
Wilson, A. Mason, Pylesville
Wilson, Glenn P., Elkton
Wirsing, Floyd H., Colleg Park
Wirts, Carl A., Pittsburgh, Pa.
Wood, Emily T., Frederick
Wood, May Louise, Boyd
Young, Ralph F., Hagerstown
Zulick, James E., Houtzdale, Pa.
Zupnick, Howard L., New Freedom, Pa.

UNCLASSIFIED

Clay, (Mrs.) Lucy E., College Park
Graybill, Mary, College Park
Lockridge, Ruby N., Hyattsville

COLLEGE OF COMMERCE AND BUSINESS ADMINISTRATION

SENIOR CLASS

Binkley, W. C., State Line, Pa.
Bressler, D. R., Baltimore
Chayt, Leon, Baltimore
Dawson, C. E., Pikesville
Feldman, Max, Baltimore
Hlavin, J. A., Baltimore
Jackson, H. E., Baltimore
King, Howell A., Baltimore
Lappe, C. A., Baltimore
Lindsay, G. E., Baltimore
Mallet, V. J., Baltimore
Milener, E. D., Baltimore
Rapperport, A. A., Baltimore
Remley, E. A., Baltimore
Rowles, L. B., Baltimore
Sanford, Vernon E., Baltimore
Schmidt, Oswald, Baltimore
Schotta, Victor, Oella
Snyder, Benjamin, Baltimore
Tharle, Herbert D., Baltimore
Thomas, L. G., Baltimore
Vaeth, James E., Baltimore
Wannen, C. L., Baltimore
Weisman, Benjamin, Baltimore
Williams, Nat, Baltimore
Wilner, Morris A., Baltimore
Wright, M. F., Jr., Bel Air

JUNIOR CLASS

Armstrong, J. E., Baltimore
Bernstein, Robert, Baltimore
Busch, A. D., Baltimore
Clemens, T. R., Baltimore
Cohen, Samuel J., Baltimore
Coney, E. H., Baltimore
Crosby, W. C., Baltimore
Darsch, G. M., Baltimore
Donaway, H. S., Baltimore
Elton, G. R., Baltimore
Finifter, Joseph, Baltimore
Friedman, N. I., Baltimore
Goucharsky, I. H., Baltimore
Gould, Helen, Baltimore
Guilder, J. M., Baltimore
Hart, K. M., Baltimore
Layman, H. C., Tamaroa, Ill.
Lesnar, Maurice, Baltimore
Levitt, M. M., Baltimore
Lewis, H. M., Baltimore
Li, Richard, Tien Tsin, China
Lockard, R. L., Baltimore
McKewen, J. L., Baltimore
McDonald, Thomas, Baltimore
Manfuso, Guy, Baltimore
Masters, Julian, Lewisburg, W. Va.
Moss, Leon, Baltimore
Naegele, J. A., Baltimore
Nardi, A. T., Worcester, Mass.
Rubenstein, S. S., Baltimore
Segall, Helen, Baltimore
Smith, Albert E., Baltimore
Stange, Arbutus (Miss), Baltimore
Stutman, William, Baltimore
Walton, William R., Jr., Baltimore
Warton, Leslie, Baltimore
Weitzman, Theodore, Baltimore
Winand, William B., Baltimore
Yates, J. Roger, Ellicott City
Yeager, Robert L., Baltimore

SOPHOMORE CLASS

Albrecht, Wilbur T., Baltimore
Barbon, W. L., Princess Anne
Beeler, R. V., Annapolis
Bussarde, G. W., Baltimore
Campbell, Noel (Brother), Baltimore
Cannon, H. S., Crapo
Chandler, L. W., Baltimore
Compher, W. R., Frederick

Corkran, O. W., Rhodesdale
Craig, H. E., Baltimore
Davis, C. F., Catonsville
Dufty, L. E., Baltimore
Dunn, John S., Baltimore
Frame, S. H., Baltimore
Fried, Samuel, Baltimore
Gerbig, Harry, Baltimore
Gorfine, H. B., Baltimore
Greager, O. A., Baltimore
Groscup, Hamilton, Baltimore
Gwynne, W. R., Baltimore
Harlan, J. C., Ellicott City
Harrington, J. H., Baltimore
Hatter, C. W., Baltimore
Hearn, R. L., Baltimore
Hoffman, H. C., Baltimore
Jones, C. L., Baltimore
Kelley, T. M., Relay
Kirstein, Herbert, Baltimore
Kunkel, F. W., Baltimore
Lavy, Abe, Baltimore
Long, Elsa, Baltimore
MacEachern, J. T., Baltimore
Magee, J. J., Baltimore
Medford, J. R., Hurlock
Moore, Genevieve, Baltimore
Myers, Saul T., Baltimore
Neumann, John Henry, Catonsville
Parks, Lawrence E., Baltimore
Robinson, Reginald E., Toddville
Rogers, George E., Baltimore
Russell, Stuart B., Baltimore
Sachs, Raymond, Baltimore
Sandler, Hyman, Baltimore
Slaughter, Leo M., Longwoods
Small, Helen D., Baltimore
Smith, Arthur, Baltimore
Snyder, John A., Charleston, S. C.
Sokolsky, Jack, Baltimore
Styrlander, Erik, Baltimore
Wallach, George R., St. Michaels
Warton, George B., Baltimore
Waters, M. G., Baltimore
Weber, G. M., Baltimore
Whealley, Morris E., Ellicott City
Wieland, Edward F., Baltimore
Winroth, G. E., Sweden
Wyatt, A. R., Reisterstown
Yankellow, Harry, Baltimore
Yates, Lucy A., Ellicott City
Yerman, Max, Baltimore

FRESHMAN CLASS

Adams, Pius, Jr., Baltimore
Arnold, G. L., Baltimore
Atwood, H. B., Baltimore
Bailey, R. A., Baltimore
Bapst, Charles, Baltimore
Baum, Armistead, Baltimore
Benson, H. E., Baltimore
Bentley, Robert L., Jr., Pikesville
Blum, Morton, Baltimore
Bopst, H. S., Frederick
Braverman, H. S., Baltimore
Bridge, B. M., Baltimore
Byrnes, T. E., Baltimore
Caplan, Morris, Baltimore
Caplan, Morris J., Baltimore
Cherrix, L. R., Baltimore
Claytor, R. M., Bedford, Va.
Coady, J. M., Baltimore
Coakley, A. T., Catonsville
Cohen, Edward, Baltimore
Conroy, P. F., Jr., Baltimore
Coppel, Abraham, Baltimore
Crist, F. P., Baltimore
Day, Seth, Baltimore
Dauber, J. W., Catonsville
Dickey, D. D., Randallstown
Diehlmann, J. L. L., Baltimore
Drain, J. G., Baltimore
Drown, S. L., Baltimore
Edwards, M. M., Baltimore
Eisenberg, Nathan, Baltimore
Epstein, Samuel, Baltimore
Fineberg, H. B., Baltimore
Goldberg, M. L., Baltimore
Gordon, Abraham S., Baltimore
Grimes, C. E., Baltimore
Hale, W. T., Baltimore
Harris, Milton, Baltimore
Harris, R. C., Jr., Easton
Harrison, C. O., Baltimore
Hawkes, B. H., Botaira, N. Y.
Heid, A. L., Baltimore
Heidelbach, H. R., Catonsville
Hisley, J. M., Baltimore
Hoopman, W. J., Baltimore
Hull, C. W., English Consul
Hyatt, A. T., Baltimore
Iseman, S. B., Baltimore
Jacobs, Clarence, Baltimore
Kalb, R. W., Baltimore
Kanner, Sidney, Baltimore
Keen, F. B., Baltimore
Kersh, Samuel, Baltimore
Kitt, Myer, Baltimore
Knecht, V. L., Baltimore
Kushner, Max, Baltimore
LaFleur, E. H., Baltimore
Leimbach, C. T., Jr., Catonsville
Li, Henry, Tien Tsin, China
McCauley, E. S., Baltimore

Maggio, Frank, Baltimore
Meintzberger, G. S., Baltimore
Melvin, V. K., Baltimore
Miller, Leo, Baltimore
Mueller, R. L., Baltimore
Murray, James, Ruxton
Norris, I. B., Curwensville, Pa.
Osbon, J. W., Catonsville
Phillips, Ruth M., Baltimore
Pierson, E. D., Baltimore
Plant, A. J., Baltimore
Pontier, Edith A., Baltimore
Radin, W. W., Baltimore
Reck, Evelyn M., Baltimore
Rosenblum, I. T., Baltimore
Roth, E. P., Baltimore
Rowe, W. H., Baltimore
Shapiro, Alexander, Baltimore
Shattuck, Frances, Baltimore
Sieverts, Augustavus, Towson
Sigler, William A., Baltimore
Slasor, Thomas F., Baltimore
Smith, Carl R., Edgewater
Smith, Charles E., Jr., Baltimore
Smith, Joseph L., Baltimore
Smoot, William B., Baltimore
Snyder, I. B., Portsmouth, Va.
Specht, Walter L., Buckeystown
Spigner, Malcolm J., New Brookland, S. C.
Stein, Leon, Baltimore
Stierhoff, George C., Linthicum
Stork, C. Warner, Jr., Baltimore
Talbot, A. H., Baltimore
Tanguey, Frank, Baltimore
Tongue, Alexander H., Baltimore
Trivas, M. M., Baltimore
Vester, Milton H., Baltimore
Weber, Wilson, Fairbank
Welsh, Robert J., Cumberland
Wilkins, J. C., Baltimore
Williams, Harry, Baltimore
Wilson, John G., Woodbridge, N. J.
Young, John G., Baltimore

EXTENSION COURSES

Ackerman, A. Margaretta, Baltimore
Adams, Henry W., Jr., Baltimore
Alessi, Silvio A., Baltimore
Alpert, Max, Baltimore
Anderson, Edwina W., Baltimore
Anderson, W. A., Baltimore
Arthurs, Thomas N., Baltimore
Andrews, Alan L., Baltimore
Ash, G. Reynolds, Elkton
Ashman, Anna E., Baltimore
Ashmead, J. H., Baltimore
Ashton, Robert J., Baltimore
Ayares, Richard B., Baltimore
Ayares, Wm. J., Baltimore
Baker, A. M., Baltimore
Baker, Frank M., Baltimore
Bailey, John Maurice, Baltimore
Baldwin, Eugene F., Baltimore
Barnes, John M., Sykesville
Barrett, Daniel G., Baltimore
Baum, Fritz W., Baltimore
Baxley, Ella M., Baltimore
Beall, Norma M., Baltimore
Bellus, Milton R., Baltimore
Bergen, Milton, Baltimore
Berger, Louis, Baltimore
Berkemeier, George, Jr., Baltimore
Bernhardt, Adolph C., Jr., Woodlawn
Bernhardt, Paula A., Baltimore
Bernheim, Hilda M. (Mrs.), Pikesville
Birnbaum, Esther H. (Mrs.), Baltimore
Black, Robert Wilmer, Mt. Washington
Blake, Joseph F., Baltimore
Bolstler, Eugene, Baltimore
Bongiorno, Henry, Passaic, N. J.
Boone, Elsie F., Baltimore
Bomhardt, William H., Baltimore
Bopp, Francis H., Baltimore
Bowers, Martin Luther, Frederick
Bowers, Martin H., Jr., Baltimore
Braitman, Samuel, Baltimore
Brown, Charles A., Baltimore
Browne, Charles W., Baltimore
Brown, Louis L., Ellicott City
Bryan, Willard V., Baltimore
Burch, Colin F., Baltimore
Bunn, Edgar L., Baltimore
Callan, John G., Baltimore
Cammann, John S., Baltimore
Carlin, Bessie, Baltimore
Carll, Mary, Elkridge
Carmichael, Peter Archibald, Baltimore
Carney, C. V., Baltimore
Carpenter, Lester Curtis, Baltimore
Carson, Wm. J. (Mrs.), Baltimore
Carter, Mildred G., Cordova
Chaney, Myrtle M. (Mrs.), Baltimore
Chantler, Lewis W., Baltimore
Charlton, H. C., Baltimore
Childs, Edwin Early, Owings Mills
Clayton, W. D., Baltimore
Coan, Katherine T., Baltimore
Codd, Joseph A., Baltimore
Collins, Margaret A., Baltimore
Connolly, Wm. B., Baltimore
Cooley, William B., Baltimore
Costello, Amelda C., Baltimore
Costello, Charles L., Baltimore

Creamer, Carroll M., Baltimore
Croner, Pierce, Baltimore
Croswell, Ira T., Baltimore
Cushner, Rose, Baltimore
Dagold, George, Baltimore
Daily, Frank John, Baltimore
Dashew, Robert S., Baltimore
Davidson, G. Wilbur, Baltimore
Davis, Bruce H., Baltimore
Dearborn, Frederick E., Edgewood
DeHoff, J. Arthur, Baltimore
Delson, Goldie, Baltimore
Demarco, S., Baltimore
Denbin, Adolph G., Baltimore
Dickerson, C. Milton, Baltimore
Director, Neuman J., Baltimore
Ditch, John S., Ellicott City
Dixon, Mildred Elizabeth, English Consul
Donahue, James I., Baltimore
Dressler, Lawrence P., Baltimore
Drozd, Joseph, Baltimore
Dryden, Myrtle L., Baltimore
Dudley, Eric, Baltimore
Duitscher, Hanna, Baltimore
Dunn, C. J., Baltimore
Dunn, Naomi M., Baltimore
Dunnington, W. E., Montevideo
DuVae, John P., Baltimore
Duvall, James G., Baltimore
Du Vall, Richard Joseph, Baltimore
Ebert, John A., Baltimore
Edgett, Mai Maloy, Baltimore
Efros, Pearl, Baltimore
Eichner, Stanley F., Baltimore
Ellicott, Maurice Tyson, Jr., Baltimore
Elliott, Alton D., Baltimore
Elton, Hazel, Baltimore
Engle, Kenneth Duke, Baltimore
Ephron, Judith B., Baltimore
Erwin, Geo. W., Baltimore
Essers, M. B., Baltimore
Faraone, Christo, Baltimore
Feldman, Charles, Baltimore
Feltham, John Henry, Baltimore
Ferguson, Chapin A., Jr., Baltimore
Fitzell, William L., Baltimore
Flahertry, E. Paul, Baltimore
Flanegan, John A., Baltimore
Flavin, Bertha M., Towson
Fleischmann, Estelle J., Pikesville
Foard, J. Stanley, Baltimore
Fong, Lee P., Baltimore
Frank, Ethel A. W., Baltimore
Frank, Pearl J., Baltimore
Freehof, Fanny Evelyn, Baltimore
Freed, Israel, Baltimore
Gahan, Michael, Baltimore
Gardner, Henry, Relay
Gardner, Irene, Baltimore
Garvey, William Edward, Baltimore
Gately, Michael J., Baltimore
Geartner, Jacob, Baltimore
Georgius, John, Baltimore
Gerth, B. Evelyn, Baltimore
Goldberg, Norman, Baltimore
Goldsmith, Bess, Baltimore
Goldstein, Elsie M. (Mrs.), Baltimore
Gorsuch, J. Larkin, Baltimore
Gosnell, Wilfred C., Jr., Baltimore
Greenstein, Mary, Baltimore
Greenwood, Ida, Baltimore
Grief, Amy F. (Mrs.), Pikesville
Grolock, Herman A., Baltimore
Guyton, M. Ruth, Baltimore
Guyton, M. I., Baltimore
Gyr, Marie E., Baltimore
Hackerman, Milton M., Baltimore
Hackett, Laura, Baltimore
Hahn, Mildred, Baltimore
Hancock, Charles A., Baltimore
Hankin, David, Baltimore
Harbour, Lillian S., Baltimore
Harper, Richard W., Baltimore
Harrington, C. S., Baltimore
Harrison, John S., Baltimore
Harrison, W. K., Baltimore
Hawkins, Marrianna, Catonsville
Hawkins, Thomas M., Baltimore
Heise, Fred N., Baltimore
Heizfeld, Estelle, Baltimore
Hessian, John W., Timonium
Heuisler, J. Stanley, Catonsville
Hiss, Elizabeth J., Catonsville
Hogan, Margaret M., Baltimore
Holmes, Arthur C., Baltimore
Holmslykke, Christian, Baltimore
Hooper, W. Henry, Jr., Baltimore
Horney, M. Myrtle, Baltimore
Huber, William J., Baltimore
Hudson, J. Frank, Towson
Hunt, Rosalie C., Baltimore
Huntington, Clara P., Baltimore
Hymowitz, Ethel, Baltimore
Hymowitz, Sonya, Baltimore
Insley, Vaughn L., Baltimore
Jackson, Charles R., Baltimore
Jacobs, Herman, Baltimore
Jacobs, Raymond L., Baltimore
Johnston, John A., Baltimore
Joyce, Helen, Baltimore
Kandel, Harry, Baltimore
Kearney, James, Baltimore
Keating, Sadie W., Baltimore
Kehoe, Loretto, Pikesville
Keller, G. G., Baltimore
Keller, Viola May, Baltimore

Kelley, Louis A., Lansdowne
Klein, Harry, Baltimore
Knock, H. L., Catonsville
Kobre, Ellis, Baltimore
Kraft, M. Loretto, Baltimore
Kohn, Walter W. (Mrs.), Baltimore
Krause, Gustav A., Baltimore
Kruelle, Carl N., Baltimore
Kuethe, Frederick W., Baltimore
Kurland, Milton B., Baltimore
Lambdin, Frank F., Baltimore
Lambdin, S. Willard, Baltimore
LaFevre, Adeline C., Baltimore
Lawson, Meda, Baltimore
Laur, Frank J., Baltimore
Lawton, Joseph T., Jr., Baltimore
Laynor, Florence M., Halethorpe
Lazinsky, Joseph W., Baltimore
League, Norma E., Baltimore
Leary, Clare, Baltimore
Leaverton, William S., Baltimore
Lehne, Harry A., Baltimore
Levin, Abraham, Baltimore
Levin, Lillian, Baltimore
Levin, Sigmund, Baltimore
Levin, Solomon B., Baltimore
Levinson, William G., Baltimore
Levis, Anna C., Baltimore
Levy, Sidney, Baltimore
Linton, William O., Baltimore
Lissy, Frank, Baltimore
Lightner, James P., Baltimore
Logan, M. Ellen, Overlea
Lohrfinck, Arnold M., Baltimore
Long, Malcolm A., Baltimore
Louis, Carlton J., Baltimore
Luedke, Robert William, Washington, D.C.
Lurz, George L., Baltimore
Lynn, John F., Baltimore
Lyons, Leah V., Baltimore
McBride, Charles L., Baltimore
McCarthy, Harry B., Swanton, Vt.
McCullough, Grace E., Baltimore
McCusker, Corinne A., Baltimore
McDaniel, Lillian Kemp, Baltimore
McLellan, Robert F., Baltimore
McMahon, Samuel, Baltimore
MacPherson, Helen, Baltimore
Manekin, Leonard, Baltimore
Mangold, William, Baltimore
Mannion, John P., Baltimore
Margolies, Celia B., Baltimore
Margolis, Dorothy D., Baltimore
Marsh, Alva V. R., Baltimore
Marshall, John E., Owings Mills
Mason, Leonard, Jr., Baltimore
Maurer, Julius G., Baltimore
Melker, Frederick L., Baltimore
Meeth, E. Mae, Baltimore
Mercer, Victor G., Frederick
Merceret, Frank J., Baltimore
Meseke, Gene, Baltimore
Messick, Harry Bishop, Baltimore
Meyers, George A., Baltimore
Miller, Isidore, Baltimore
Millison, Harry, Baltimore
Mitchell, Douglas C., Baltimore
Mitchell, Marguerite Mae, Baltimore
Mittler, Frances B., Baltimore
Morrison, C. Francis, Jr., Baltimore
Morrison, Matilda, Baltimore
Muehlhause, William, Baltimore
Murray, John P., Baltimore
Nachlas, Nathaniel S., Baltimore
Nelson, Mary Irene, Baltimore
Neubauer, Elmer A., Baltimore
Neubauer, Frank R., Baltimore
Neville, James N., Baltimore
Neye, Helen, Baltimore
Nicodemus, Grace H., Buckeystown
Nunnally, Frederic H., Baltimore
Nutter, Madelyn Powell, Baltimore
Ostendorf, Irvine Geo., Baltimore
Owens, Arthur Franklin, Annapolis
Owens, Paul L., Bayonne, N. J.
Parker, Lee, Glen Burnie
Parr, Leo J., Baltimore
Perkins, Murray R., Baltimore
Pfieffer, Marie B., Baltimore
Pickering, Charles P., Baltimore
Platzer, Charles B., Baltimore
Poffenberger, Geo. S., Baltimore
Pohlman, Adelaide L., Randallstown
Poret, A. Lillian, Baltimore
Powell, Douglas, Baltimore
Price, Laura A., Queenstown
Price, Paul P., Baltimore
Prodoehl, Emile H., Baltimore
Pullen, Frank H., Baltimore
Purcell, William J., Baltimore
Reed, Dorsey M., Baltimore
Rice, Charles R., Baltimore
Rickard, Charles P., Baltimore
Rigger, A. Ira, Baltimore
Robinson, Annie B., Baltimore
Roop, Margaret, Baltimore
Rosenthal, Frederick, Baltimore
Rossmann, E. A., Baltimore
Rubin, Abe, Dorchester, Mass.
Sacks, Abraham I., Baltimore
Sacks, Blanche, Baltimore
Samet, Cecilia, Baltimore
Sandlas, William H., Baltimore
Salgado, Ernest Odilio, Baltimore
Sapperstein, R., Baltimore
Schaffer, Charles D., Baltimore
Schutte, George J., Baltimore
Schwartzman, David J., Baltimore

Schaale, Helen Marie, Baltimore
Schindler, Nathan, Baltimore
Schloss, Julius E., Baltimore
Schnabel, William Thomas, Baltimore
Schuppner, Wm. G., Baltimore
Segalowitz, Oscar, Baltimore
Seidman, Eva G., Baltimore
Seidman, Hilda, Baltimore
Seim, R. Cofer, Baltimore
Serra, Lawrence M., Brooklyn
Shapiro, Mary L., Baltimore
Shlessinger, Jacob, Baltimore
Shilling, Lewis, Baltimore
Shramek, F., Baltimore
Siegel, Gustav, Baltimore
Silbereisen, Amanda M., Elkridge
Silbert, Louise, Baltimore
Sills, Edward, Baltimore
Silver, Sarah, Baltimore
Simpson, Thomas Howard, Hollidaysburg, Pa.
Slifker, Charles A., Stemmers Run
Sloan, James S., Baltimore
Snader, Cathryn A., Baltimore
Snyder, Marie H., Baltimore
Snyder, Mattie, Baltimore
Southerington, H. T., Jr., Baltimore
Spamer, Henry E., Baltimore
Sponsler, J. Merrill, Baltimore
Spruill, John David, Baltimore
Stabler, Margaret H., Baltimore
Stairs, Clara B., Baltimore
Stein, Julian S. (Mrs.), Baltimore
Stepanek, Rose, Baltimore
Stevens, W. M., Washington, D. C.
Storm, Frederick P., Baltimore
Strobel, Edgar, Jr., Baltimore
Strobel, Peyton B., Baltimore
Strouse, Isaac, Baltimore
Svec, Lucy B., Baltimore
Swartz, James M. (Mrs.), Baltimore
Swartz, Nellie, Baltimore
Sylvia, Pearl, Brooklyn
Tarbert, Guy E., Baltimore
Taylor, Edward D., Jr., Baltimore
Thomas, Harry S., Baltimore
Thomas, Joseph H., Baltimore
Tiemeyer, Arthur Charles, Baltimore
Topchik, Irving, Garfield, N. J.
Trageser, Charles A., Baltimore
Trippe, Andrew N., Baltimore
Trussell, A. L., Baltimore
Tull, Harding P., Jr., Marion Station
Ulman, Ella G. (Mrs.), Baltimore
Unglaub, S. S., Baltimore
Vane, Roland R., Baltimore
Van Garden, J. H., Baltimore
Vincenti, Della (Mrs.), Baltimore
Voloshen, Su R., Baltimore
Von Briesen, Roy, Baltimore
Wagenen, Stella (Mrs.), Baltimore
Walker, Leonora L. (Mrs.), Baltimore
Wannenwetch, Hortense, Baltimore
Ware, Helen, Baltimore
Warrenberger, Roger C., Baltimore
Watts, George V., Baltimore
Weber, Bernard G., Essex
Weber, Ulysses Sidney, Baltimore
Wedeman, W. E., Baltimore
Weil, LeRoy Walter, Baltimore
Welch, Bertrand C., Baltimore
Wert, Luther A., Baltimore
Wheatley, A. W., Baltimore
White, Howard M., Baltimore
White, I. C., Baltimore
Whitman, Edward B., Garrison
Widerman, John H., Baltimore
Wilson, Gilbert F., Jr., Baltimore
Wilson, Norman R., Baltimore
Winter, W. Nelson, Baltimore
Wirth, Karl Paul, Baltimore
Womack, John M., Baltimore
Wright, Mary E. (Mrs.), Baltimore
Wurtzburger, Alan, Baltimore
Yates, Nimrod Harrison, Ellicott City
Yourex, Jean, Baltimore
Zepp, Newell B., Baltimore
Zimmerman, Jesse, Baltimore
Zimmermann, Robert M., Baltimore

SCHOOL OF DENTISTRY

SENIOR CLASS

Abramson, Leonard, Bayonne, N. J.
Alpert, Julius Leo, Burlington, Vt.
Andre, Carl Purre, Fairmont, W. Va.
Astor, Edward Ernest, Wilkes Barre, Pa.
Barth, S., New York, N. Y.
Basehoar, Clyde E., Littlestown, Pa.
Baum, Theodore Abraham, Baltimore
Beard, John Herbert, York, Pa.
Benazzi, Bomeda Berre, Danville, Va.
Benedict, Walter Sherman, Bridgeport, Conn.
Birney, William Joseph, Torrington, Conn.
Bishop, Blaine Charles, Baltimore
Blaisdell, Virgil Clay, Sullivan, Me.
Blanchard, Norman Kelley, Portland, Me.
Bridger, Roy Thynes, Dunn, N. C.
Brightfield, Lloyd O., Baltimore
Browning, Batthis Allen, Baltimore

Bruce, Charles Herbert, Jr., Matawan, N. J.
Budz, Frank J., Clifton, N. J.
Burt, Joseph Freeman, Williamstown, W. Va.
Butkiewicz, Edward Warslaw, Baltimore
Campbell, Samuel Lewis, Charleston, W. Va.
Capo, Emigul, Ponce, Porto Rico
Chase, Herman Chaim, Newark, N. J.
Chewning, Carroll Wills, Orange, Va .
Cohen, Meyer Harold, Corbondale, Pa.
Coherly, Bernie O., Junior, W. Va.
Colvin, Ernest Milburn, Jr., Washington, D. C.
Cotimi, Euripides Eugene, San Juan, Porto Rico
Crespo, Demetrio, Cato Rojo, Porto Rico
Cronauer, Frank Anthony, Wilkes Barre, Pa.
Delaney, Rodolphe Wilfrid, House Harbor, Canada
Dickson, Bryan A., Silas Creek, N. C.
Dixon, Charles Merle, Jr., Frederick
Dobb, Howard Ronelldon, Presque Isle, Me.
Dolan, Joseph Kyle, Pawtucket, R. I.
Dudasik, Nicholas, Clifton, N. J.
Fisher, Jacob D., Hampton, Va.
Foley, John Joseph, Grafton, W. Va.
Garrett, Charles Richard, Waynesboro, Pa.
Goldstein, Harry, Baltimore
Greenwald, Louis E., Passaic, N. J.
Gonzalez, Pedro, San Juan, Porto Rico
Guilfoyle, Francis X., Bayonne, N. J.
Hagerty, Richard Andrew, Farmington, W. Va.
Hall, Howard Victor, Fanwood, N. J.
Ham, Edgar, Baltimore
Hanan, James Joseph, Holyoke, Mass.
Harper, Edward Franklin, Baltimore
Hart, William Isaac, Johnson City, Tenn.
Hekinian, Charles Hagop, Providence, R. I.
Higby, Clifford Carlton, Baltimore
Hinebaugh, Daniel Stuart, Thomas, W. Va.
Hinrichs, Ernest Henry, Mt. Washington
Hitchcock, Lewin Nelson, Taneytown
Hogan, John Howard, Waterbury, Conn.
Hoover, Samuel Henry, Sparrows Point
Ingram, William A., Cheraw, S. C.
Jaffe, Abraham Myer, New Britain, Conn.
Jerdon, Edward John, North Adams, Mass.
Keister, Walter L., Upper Tract, W. Va.
Kerlejza, George John, New Britain, Conn.
Kilcorful, John Edward, Clinton, Mass.
LaRoe, John Edward, Plainfield, N. J.
La Vallee, Alexander Joseph, Burlington, Vt.
Lautenberger, Henry Lewis, Baltimore
Lawlor, Joseph John, Shenandoah, Pa.
Lazarus, Jacob, Berlington, W. Va.
Le Fevre, Edward Warren, Baltimore
Levine, Milton, Bayonne, N. J.
Lewis, Frank Lucas, Baltimore
Loehwing, George Henry, Paterson, N. J.
Lopatin, Samuel, New Haven, Conn.
Lusardi, John, Rockaway, N. J.
Lynch, Daniel Francis, Waterbury, Conn.
Matney, W. Glenn, Grundy, Va.
McCormick, Richard Edward, Springfield, Mass.
McCrohan, Joseph Augustine, New Bedford, Mass.
McCrystle, Frank Christian, Minersville, Pa.
McEvoy, George Fenton, Waterbury, Conn.
McNeely, Jacob Owen, Fairmont, W. Va.
McQuaid, Michael Ernest, Baltimore
Mercader, Miguel A., Mayaguez, Porto Rico
Meyer, Oscar William, East Rutherford, N. J.
Merriam, Kenmore E., Baltimore
Minahan, Michael Joseph, Clearfield, Pa.
Mulcarek, Leopold Joseph, Chester, Pa.
Munero, Narciso, Ponce, Porto Rico
Newell, John Davidson, Wilmington, Del.
Novak, Frank Joseph, Baltimore
Noon, Tholas E., Millersville,
Nathan, Nuger, Baltimore
O'Leary, Paul Garrett, Elmira, N. Y.
Olitsky, Barney Elwood, Trenton, N. J.
Ortel, Linwood, Baltimore
Padolf, Ephraim Lee, Erie, Pa.
Paikowsky, Hyman Lewis, Baltimore
Pearman, Harvey Raine, Summerfield, N. C.
Peluso, Charles Michael, Hoboken, N. J.
Pfahl, Arthur Casey, Jersey City, N. J.
Phelps, Frederick William, Bridgeport, Conn.
Phillips, George Jackson, Monk, Va.
Polk, Charles James, Hartford, Conn.
Powell, Albert Charles, Adamston, W. Va.
Resh, George Daniel, Hampstead
Richardson, James Brantley, Leaksville, N. C.
Rieman, Barney, Bayonne, N. J.
Romino, Leonard Anthony, Fairmont, W. Va.
Schaff, Fred Lemuel, Greencastle, Pa.
Scholtes, Charles Philip, Minersville, Pa.
Shea, Edward Walter, Holyoke, Mass.
Shinn, Francois Boggess, Belington, W. Va.
Siegel, Arthur, Huntington, N. Y.
Siwa, Roman C. A., Mt. Carmel, Pa.

Smith, Henry Harold, Adamston, W. Va.
Sorokin, Louis Abraham, Philadelhia, Pa.
Sousa, Theophile Charles, Fall River, Mass.
Stewart, William, Jr., Wilmington, Del.
Stone, Edward Daniel, Baltimore
Teague, Henry Nelson, Martinsville, Va.
Thorn, Allen Howard, Newark, N. J.
Thomas, Cecil Allen, Newport News, Va.
Towill, Robert Benjamin, Wake, Va.
Ulanet, Louis, Newark, N. J.
Van Auken, Ross Depue, New York, N. Y.
Von Lenten, Peter, Clifton, N. J.
Viera, Providencia (Miss), Rio Piedras, Porto Rico
Wallace, Herschel Everett, New Concord, Ohio
Webb, Charles Shepherd, Jr., Bowling Green, Va.
Weisengreen, Herman Henry, New York, N. Y.
Wierciak, Paul Aloysius, Ludlow, Mass.
Wildermann, Elmer Michael, Keyser, W. Va.
Wilhelm, Paul, Whiteford,
Williams, Robert Edgar, Jr., Inez, N. C.
Willis, George Armand, Bel Air
Wood, Howard Beaty, Mingo, W. Va.

JUNIOR CLASS

Akers. James Lee, Brooklyn
Anderson, Milton Fred, Baltimore
Andre, Homer Constant, Charleston, W. Va.
Babowicz, Baleslaw, Stanislaw, Watervliet, N. Y.
Badger, Walter Lanneau, Baltimore
Barrette, Roland Alcide, Fall River, Mass.
Bates, John Ormond, Baltimore
Begin, Arthur Adeland, Waterville, Me.
Benson, Covert Orville,. Cameron, W. Va.
Binns, Edwin Virgil, Baltimore
Biosca, Henry, Camaguey, Cuba
Blair, Murray R., New Devon, N. B. Can.
Blair, Robert Edward, Baltimore
Bomhard, Maxime W., Fort Kent, Me.
Bourgeois, Ernest Marceline, Moncton, N. B. Can.
Brigadier, Leonard Richard, Bayonne, N. J.
Brown, Charles Shugart, Lick Creek, W. Va.
Brown, Wm. DuBois, Barnegat, N. J.
Bumgarner, Albert Sheridan, Baltimore
Byron, Wesley Cole, Hamilton
Caine, Louis Philip, Newark, N. J.
Carroll, Vincent A., Corning, N. Y.
Catasirs, Emilio, Santiago, Cuba
Cavallaro, Augustine Louis, New Haven, Conn.
Cheong, Matthew A. C., Trinidad, B. W. I.
Crickenberger, Harry Hugh, Greenbrier, W. Va.
Davis, Wm. R., East Orange, N. J.
Degling, Harry Henry, East Orange, N. J.
Deslandes, Leo Edward, Providence, R. I.
Doherty, Frank Joseph, Worcester, Mass.
Dorsey, Caleb, Jr., Baltimore
Driscoll, Joseph William, Ansonia, Conn.
Dunphy, Albert Francis, Providence, R. I.
Ellar, Arthur Bentley, Baltimore
Elliot, Walter H. T., South Orange, N. J.
Fiess, Paul Lewis, New Martinsville, W. Va.
Font, Juan, Santurce, Porto Rico
Fortney, Milford Daniel, Kingwood, W. Va.
Fusco, Joseph Delbert, New Haven, Conn.
Gannon, Edward Patrick, Clinton, Mass.
Gregory, Ardie William, Webster Springs, W. Va.
Hagerthy, Cornelius Carlisle, Sedgwick, Me.
Hardy, George Edward, Jr., Baltimore
Holliday, Robert Henry, Clinton, N. C.
Huminski, Chester Jos., Union City, Conn.
Jacobs, Benjamin Joseph, Elizabeth, N. J.
Jameson, Austenous, Hughesville
Joule, James, Arlington, N. J.
Kaplon, Morton, Summitt, N. J.
Kelly, Charles A., Craddockville, Va.
King, Joseph Dempsey, Worcester, Mass.
Klock, James Harold, Baltimore
Kozubski, Michael, Baltimore
Lazzell, Charles Barran, Baltimore
Leger, Edmund J., Bathurst, N. .B. Can.
Levin, Harry Herbert, Baltimore
Lipman, Samuel, Bayonne, N. J.
Little, Main Eugene, Darlington
Loar, Elijah Emerson, Eckhart Mines
Lonergan, Robert Clement, New London, Conn.
McAlexander, Archie, Orange, Va.
McGann, James Francis, Providence, R. I.
McGonigle, William Ignatius Loyola, Newark, N. J.
McGrail, Frank Russell, New Haven, Conn.
McMullen, Charles Anthony, Steubenville, O.
Mackwiz, Grantly Raymond, Baltimore
Magee, Kenneth Archer, Essex, N. J.
Marx, Joseph, Passaic, N. J.
Mehring, Wilbur Basehaor, Taneytown
Miller, Carey Oregon, Newcastle Bridge, N. B. Can.
Minkin, Hyman, Washington, D. C.
Mockridge, Arthur Randolph, Dover, N. J.

Monk, David, Potchefstroom, Transvaal, S. Africa
Morris, Thos. Edward, Hasbroock Heights, N. J.
Morrison, William Henry, Burlington, Vt.
Myvowitz, Bernhard Carroll, New York, N. Y.
Nealon, John Patrick, Scranton, Pa.
Nelson, Joseph Thomas, Baltimore
Newell, Ward Milton, Stephens City, Va.
Oggesen, Walter Leavenworth, New Haven, Conn.
Phreaner, Richard Metz, Greencastle, Pa.
Pinsky, Benjamin, Baltimore
Plaster, Hubert Deford, Salem, N. C.
Powell, William Herbert, Elkins, W. Va.
Pressman, Samuel, Woonsocket, R. I.
Pyott, James Edward, Baltimore
Quillen, Joseph Everett, Baltimore
Rauch, Albin Walter, Newark, N. J.
Reynolds, Leo, N. Attleboro, Mass.
Reynolds, Robert Hugh, New Haven, Conn.
Richmond, Clarence Wright, Coatesville, Pa.
Ruane, William Aloycius, Scranton, Pa.
Ryan, James Edward, New Bedford, Mass.
Sandy, Benjamin Paul, Baltimore
Schwarz, Abie Jack, Westwood, N. J.
Sciarretta, William, Providence, R. I.
Seery, Paul Richard, Wilmington, Del.
Sharpe, Nicholas Abraham, New Haven, Conn.
Shapiro, Louis, Newark, N. J.
Shoap, Richard Reynolds, Lexington, N. C.
Shutters, Abram A., Timberville, Va.
Smith, Wallace Phillips, Cambridge,
Spellman, James Patrick, Scranton, Pa.
Springer, Charles Budd, Fredericton, N. B. Can.
Stratton, Wanen William, Hartford, Conn.
Tidgewell, Frederick H., Jr., West Haven, Conn.
Toulouse, Fred Edward, Jr., Waterville, Me.
Towers, John Milton, Roseland, N.J.
Townes, George Edwin, Martinsville, Va.
Trail, William Edward, Pipestem, W. Va.
Trent, Ralph W., Leaksville, N. C.
Trinkle, George Henry, Shenandoah, Pa.
Trone, James LeRoy, Carlisle, Pa.
Tuttle, Samuel, Revere, Mass.
Veasey, Eugene Elderdice, Pocomoke
Walker, Robert Dean, Harrisburg, Pa.
Walsh, William Philip, Wilmington, Del.
Walter, Henry, Baltimore
Warshawsky, Samuel, Asbury Park, N. J.
Watts, Allan Lee, Carlisle, Pa.
Webb, Elmore M., Baltimore
Weeks, William Pierce, Charlotte, N. C.
Whitcomb, Robert William, New London, Conn.
Winchester, Phil Whitfield, Summerfield, N. C.
Zelinski, Edward William, Baltimore
Zwick, Andrew, Naugatuck, Conn.

SOPHOMORE CLASS

Abrams, Samuel, Jersey City, N. J.
Alvarez, Rafael Rodriquez, Habanana, Cuba
Apirian, John, Waterbury, Conn.
Baish, Eugene Landis, Baltimore
Bock, Carl Frederick, Baltimore
Boggs, Richard Hopkins, Franklin, W. Va.
Boggs, Robert Alexander, Jr., Marietta, O.
Burns, Howard Rogers, Bergenfield, N. J.
Bush, Harry Lewis, Park Ridge, N. J.
Byer, Samuel Howard, Trenton, N. J.
Condry, James A., Clarksburg, W. Va.
Casciano, Dominick Nicholas, Jersey City, N. J.
Coberth, Morris Edward, Baltimore
Dailey, Wm. Paul, Steelton, Pa.
Demarest, John Hyson, Verona, N. J.
Donatelli, Francis Philip, Roseto, Pa.
Dorsey, Brice Marden, Baltimore
Doty, Almon Peter, Plainfield, N. J.
Douglas, William W., Bayonne, N. J.
Duryea, Walter Egbert, Hawthorne, N. J.
Eagle, James Webster, Keyser, W. Va.
Epstein, Raymond, Newark, N. J.
Erwin, Dick H., Charlotte, N. C.
Fenn, George Nelson, Waterbury, Conn.
Fernandez, Marcolina (Miss), San Juan, Porto Rico
Fitch, Avery Williams, Noank, Conn.
Fitzgerald, John, Baltimore
Fox, Lewis, Norwich, Conn.
Frank, Samuel Marshall, New Haven, Conn.
Gale, Ralph Cookman, New Freedom, Pa.
Garverich, Charles Augustus, Harrisburg, Pa.
Gould, Charles Keith, Spartanburg, S. C.
Griffin, Harry A., Susquehanna, Pa.
Graffam, Sidney Ray, Unity, Me.
Grotsky, Theodore, Baltimore
Hanna, Robert Chas., Bethel, Conn.
Harmon, William Irvine, Paterson, N. J.
Haynes, Ellery Cleary, Middlebury, Vt.
Herring, Lonnie Orville, Clinton, N. C.
Hess, Frederick Joseph, Washington, D. C.
Hoffman, William Paul, Hagerstown
Holdstock. James, Jr., Troy, N. Y.

Hundley, Alwyn, Jr., Baltimore
Hurst, Frank, Wilsonberg, W. Va.
Hurst, Kenneth Earle, Baltimore
Huth, Ralph Leo, Follonsbee, W. Va.
Hyson, John Miller
Jennetta, Alexander T., Washington, N. C.
Karas, Henry John, Chicopee, Mass.
Keefe, James Andrew, Bridgeport, Conn.
King, Robert J., Williamsport, Pa.
Kirk, Walter Wilson, Darlington
Kobler, Ferdinand Carl, Carlstadt, N. J.
Koppal, Issac H., Baltimore
Kinch, Frederick Joseph, Somerville, Mass.
Kramer, Abraham Frank, Elizabeth, N. J.
Lammers, Walter John, Baltimore
Lauer, Louis, Newark, N. J.
McAnally, Charles Beauregard, Madison, N. C.
McClain, Preston LeRoy, Bar Harbor, Me.
McKay, Allen Pierce, Raspeburg
McLay, Frank Paul, North Andover, Mass.
Marrone, Jack, Frederick
Mielcarek, Leon Michael, Chester, Pa.
Moore, Oliver Shipley, Globe, N. C.
Myers, John Lee, Washington, D. C.
Neel, Jerrald Wilbur, Jr., Baltimore
Newberg, Conrad William, New Haven, Conn.
O'Boyle, John Michael, Scranton, Pa.
Oneacre, Claret Arthur, New Martinsville, W. Va.
Orrison, Richard Clayton, Lovettsville, Va.
Paszek, Stephen Andrew, Newark, N. J.
Pharr, Joe, Lewisburg, W.Va.
Pomroy, Granville, Presque Isle, Me.
Pronty, Earle Tudhope, Swanton, Vt.
Prescher, Adolph Rexroth, Plantsville, Conn.
Quirk, Pierce, Jersey City, N. J.
Rice, Robert Theron, Cameron, N. C.
Rider, Elwood B., Monroe, N. Y.
Rohrbaugh, John Pitt, Camden, W. Va.
Rohrabaugh, Walter Ernest, Belington, W. Va.
Rose, Jacob N., Philadelphia, Pa.
Ruderman, Charles, Newark, N. J.
Russell, Carl Purvis, Eastport
Schilling, Louis Robert, Carlstady, N. J.
Schwartz, Jacob, Newark, N. J.
Shanklin, Burke J., Union, W. Va.
Siwa, Walter Joseph, Mt. Carmel, Pa.
Stewart, William A., Bayonne, N. J.
Taylor, Chas. Everett, Verona, N. J.
Webb, William Camper, Bowling Green, Va.
Weber, Ernest John, Clifton, N. J.
White, Ross Bond, Baltimore
Whitman, Clifford LeRoy, Lyndhurst, N. J.
Wierman, John Alexander, Dillsburg, Pa.
Wilde, Samuel Henry, Jr., East Orange, N. J.
Wintrup, J. Paul, Wilmington, Del.
Woolfson, Albert, Baltimore
Yolken, Henry David, Baltimore
Yuckman, Benjamin Paul, Carteret, N. J.
Zacks, Aaron Melville, Norfolk, Va.
Zenovitz, Lewis Herbert, Norfolk, Va.

FRESHMAN CLASS

Arkus, Philip, Bayonne, N. J.
Aronson, Irving Jerome, Hillside, N. J.
Barr, Charles Herschel, Charleston, W. Va.
Basehoar, William Curtis, Carlisle, Pa.
Bishop, Arthur Barton, New Haven, Conn.
Blasini, Domingo Alejandro, Baltimore
Blumberg, Sidney Howard, Newark, N. J.
Bobinski, Harry, Stamford, Conn.
Bochenek, Abraham Ellis, Elizabeth, N. J.
Bowers, Norman R., Grafton, W. Va.
Boyer, Lloyd Luther, Harrisburg, Pa.
Branch, Byron Russell, Bathurst, N. B. Can.
Brice, Oliver Tydings, Annapolis
Bristol, Howard, Plantsville, Conn.
Britten, Harold Coleman, Syracuse, N. Y.
Brown, Benjamin, Atlantic City, N. J.
Bucher, Leon, Baltimore
Cayton, Leon, Washington, D. C.
Chappelear, Theodore Alonzo, Dennison, O.
Colvin, Melvin Hazen, Washington, D. C.
Conway, Thomas Cornelius, Holyoke, Mass.
Corey, Elmer Francis, Mountain Lakes, N. J.
Costanza, Emil Louis, Elizabeth, N. J.
Craig, Gilbert Thomson, Wallingford, Conn.
Crider, Frank Nelson, Hagerstown
Czajka, Edward, Danbury, Conn.
Dana, Howard George, Bombay, N. Y.
Dawson, Wallace Harvey, Elizabeth City, N. C.
Deems, Paul Adam, Baltimore
De Flora, Romeo Joseph, West Englewood, N. J.
Delahunty, Samuel Edward, Burlington, Vt.
Devan, John Koron, Newark, N. J.
Donatelli, Martin Louis, Roseto, Pa.
Dwan, Francis Joseph, Torrington, Conn.
Eggnatz, Myer, Baltimore
Eigenrauch, Justus Harold, Jersey City, N. J.
Falk, William Joseph, Erie, Pa.

Fancette, John William, Jr., Asheville, N. C.
Fancher, Morris Colburn, Winsted, Conn.
Fenichel, Joseph, Newark, N. J.
Fidel, Oscar, Newark, N. J.
Frankel, Nathaniel Leon, New Brunswick, N. J.
Gallen, Lester, New Brunswick, N. J.
Germain, Ralph Raymond, Plainfield, N. J.
Gold, Sidney Irving, Trenton, N. J.
Goldberg, Irvin Bernard, Baltimore
Goldberg, William Milford, Bayonne, N. J.
Gordon, Daniel Jacob, Harrison, N. J.
Guerra, Francisca (Miss), Ponce, Porto Rico
Haggerty, Lewis Merritt, Sussex, N. J.
Harrison, Stephen Glace, Scranton, Pa.
Herring, Odie Boon, Roseboro, N. C.
Huggins, Clement Eric, New York, N. Y.
Jacobs, Abraham, Newark, N. J.
Kaplan, Nathan, Brooklyn, N. Y.
Kelsey, Julius Jack, Reading, Pa.
Kniberg, Bernard, Newark, N. J.
Knight, Benjamin Mitchell, Jr., Winchester, Va.
Lauten, William Brydon, Baltimore
Lavine, Benjamin, Trenton, N. J.
Lowenstein, Philip Cecil, Elizabeth, N. J.
Machado, John Simmons, Jr., New Bedford, Mass.
Machokas, Pius George, Baltimore
Magner, Richard B., Baltimore
Marazas, Edward William, Minersville, Pa.
Markley, Fred Effinger, Staunton, Va.
Matney, Andrew C., Grundy, Va.
Messick, Carroll Benjamin, Benedict
Michniewicz, Joseph Anthony, Bellows Falls, Vt.
Miller, Clarence Paul, Tunnelton, W. Va.
Moore, Stanley Gray, Hagerstown
Mott, Mayo Burnard, Davis, W. Va.
Morris, John Gray, Bloomsburg, Pa.
Moxley, Richard Thomas, Jr., Wylam, Ala.
Munkittrick, Alfred Graham, Nutley, N. J.
McCluer, William Alexander, Fairfield, Va.
Ohslund, Quentin Paul, New Haven, Conn.
Olson, Charles Roland, Clinton, Mass.
Ouellette, Oscar Joseph, Fall River, Mass.
Orange, Jerome, Newark, N. J.
Paganelli, Charles William, New York, N. Y.
Patterson, Lloyd, Wilson, Cumberland
Pennino, Joseph Anthony, Garfield, N. J.
Piasecki, Stanislaus Ladislaus, Baltimore
Preis, Kyrle William, Baltimore
Remaley, Clarence Russell, Export, Pa.
Rhodes, Herbert Paul, Middletown, Va.
Rizzoto, Jeffrey, Kearny, N. J.
Rosin, Jack Ralph, Erie, Pa.
Ryan, Edwin Milton, Bethel, Conn.
Sachner, Benjamin, Norwich, Conn.
Schaedel, Carl Herbert, Newark, N. J.
Seemann, Frank Charles, Perth Amboy, N. J.
Selens, Walter Ladislas, Waterbury, Conn.
Seyo, Ana Celia (Miss), Arecibo, Porto Rico
Shapiro, Fred, Carteret, N. J.
Silverman, David Bernard, Norfolk, Va.
Silverman, William, New Britain, Conn.
Smith, Narval Keith, Rupert, W. Va.
Sofferman, Irving, Bayonne, N. J.
Stagg, Horace Huyler, Westwood, N. J.
Stamp, Frank E., Reading Center, N. Y.
Stickle, Norman Edwin, Newark, N. J.
Stock, Richard Joseph, Gettysburg, Pa.
Teter, Harry, Thomas, W. Va.
Toye, Alfred Emerson, Dover, N. J.
Tirpak, Eugene Joseph, Ridgewood, N. J.
Uihlein, George Albert, New Haven, Conn.
Vawter, Ray Alexander, Savage
Von Deilen, Arthur William, Morristown, N. J.
Walker, John Fremont, Saranac Lake, N. Y.
Watkins, Sheridan Newton, N. Braddock, Pa.
White, Charles Church, Winfall, N. C.
Wright, Stephen Holt, Fairmont, W. Va.
Zerdesky, Clement Anthony, Silver Creek, Pa.

COLLEGE OF EDUCATION

SENIOR CLASS

Bowers, Walter L., Hagerstown
Buckey, Nellie S., Mt. Rainier
Coblentz, Roscoe Z., Middletown
Cushman, Alice W., Takoma Park
Dolly, Virgil O., Flintstone
Duvall, Elizabeth S., Washington, D. C.
Gardner, G. Page, Middletown
Hill, L. Lucile, Washington, D. C.
Magruder, John W., Gaithersburg
Nicol, Victorine G., Washington, D. C.
Orme, Elsie L., Barnesville
Pugh, Edward L., Chevy Chase
Rigdon, Wilson O., Cardiff
Smith, Dorothy Quincy, Washington, D. C.

Staley, Daniel R., Knoxville
Swenk, Elizabeth R., Washington, D. C.
Thomas, Nelson J., Baltimore
*Whiteford, Michael W., Whiteford
Willis, Rebecca C., Hyattsville
Willis, Theodora, Hyattsville
Wolfe, M. Frances, Forest Glen

JUNIOR CLASS

Amos, Laura I., Forest Hill
Anderson, Dorothy B., Washington, D. C.
Baker, Katherine L., Edgemont
Barron, Edward M., Hyattsville
Beatty, William P., College Park
*Bennett, Benjamin H., Kenilworth, D. C.
Corkran, Daniel E., Rhodesdale
Dorsey, Elise, Ellicott City
Ennis, John, Pocomoke
King, Laura C., Hagerstown
Lehman, Lawrence L., Rockville
Longridge, Joseph C., Barton
Morgan, Phyllis, Lonaconing
Murray, Dorothy, Washington, D. C.
Nihiser, Edwin E., Hagerstown
Pancoast, Priscilla B., Mt. Rainier
Porton, Harry P., Washington, D. C.
Pyles, Joseph T., Frederick
Ray, John J., Washington, D. C.
Richardson, Louise, Washington, D. C.
Schmidt, George H., Baltimore
Seibert, John C., Clearspring
Staley, Ira M., Knoxville
Sylvester, Mary L., Jonesboro, Tenn.
Troxell, Walter H., Washington, D. C.
Wallace, Sarah O., Landover
Waters, John W., Washington, D. C.
Whiteford, W. Hamilton, Baltimore
Wolfe, Margaret B., Forest Glen
Young, Dorothy O., Bethesda

SOPHOMORE CLASS

Bear, Elizabeth, Riverdale
Browne, Mary M., Chestertown
Custer, Helen, Friendsville
Fettus, George H., Jr., Folcraft, Pa.
Harbaugh, Louise, Brookland, D. C.
Howard, William L., Federalsburg
Hill, Robert W., Baltimore
Jenkins, Stanley, College Park
†Kraft, Mary L., Ellicott City
Long, Marvin C., Williamsport
Miller, Gladys M., Westernport
Mills, James B., Delmar
Muzzy, Alexander A., Homestead, Pa.
Ryon, Helen G., Waldorf
Ryon, Naomi C., Waldorf
Seibert, Joseph H., Clearspring
Ward, William L., Baltimore
Whiteford, Roger S., Baltimore
Woodward, Alberta A., Brookland, D. C.
Wright, Phillip A., Federalsburg

FRESHMAN CLASS

Beall, Elizabeth M., Chevy Chase
Dale, James P., Whaleysville
Earnshaw, Virginia H., Riverdale
Erwin, Martha L., Hyattsville
Houser, Phyllis M., Brentwood
Kelly, Josephine M., Washington, D. C.
Kirk, Jane L., Colora
Kuhnle, Mary E., Westernport
Leatherman, John D., Thurmont
Llewellyn, Clarence H., Barton
Lusby, James W. H., Brandywine
Matthews, Henry C., Worton
McCoy, Philemon, Beltsville
McCurry, Edgar W., Kenilworth, D. C.
McCurry, Joel C., Kenilworth, D. C.
McPartland, John F., Lonaconing
Morris, Frances F., Sykesville
Nicholas, Ellwood R., Philadelphia, Pa.
Price, Virginia S., Washington, D. C.
Pugh, Charles F., Chevy Chase
Schumann, Paul A., New Brunswick, N. J.
Soper, Laura A., Cheltenham
Staley, Robert A., Knoxville
Truitt, Emily, Snow Hill
Underwood, Grace, Hyattsville
Walsh, Winifred M., Washington, D. C.
Wolf, Margret M., Hyattsville

UNCLASSIFIED

Frothingham, Alma, Laurel

EXTENSION TEACHER-TRAINING COURSE (Baltimore)

Askew, Howard
Balsam, Frank
Emmert, C. F.
Haefner, William
Haeley, William
Homburg, Earnest P.
Haslup, DeWilton
Letzer, J. H.
Meyers, G. A.
Mortz, C.
Packard, A. G.
Peterson, Harold
Roesler, E. F.
Wilson, Hugh
Wood, W. C.
Zimmerman, R. L.

EXTENSION CLASSES IN FOREMANSHIP (Baltimore)

Allen, Orville A.
Askew, Howard
Bailey, Leslie A.
Battee, Samuel W.
Bertline, Ed.
Besel, John
Boss, Robert O.
Bowers, Thomas
Browning, Ed.
Clawson, J. H.
Cole, Harry A.
Cooney, Edward
Covington, Elmer P.
Cromb, Frank E.
Donahue, James I.
Ehsel, Albert
Ely, Francis K.
Frankhanel, Ralph
Farwell, John A.
Ficht, Carl E.
Freyer, John K.
Garden, Louis
Gebler, Oswald H.
Hackett, Katherine
Hanenstein, John
Hausner, Louis
Heimbruch, Harry
Hennessy, Mark M.
Hoffman, Ed.
Holly, Michael
Ingram, John C.
Keene, George W.
Kober, Frank, Sr.
Kone, Milton A.
Longrehr, John
Malkus, William E.
McIntyre, B. J.
Millenburg, Charles
Miller, George H.
Mills, Boyd C.
Moore, George R.
Murrel, Gordon C.
Neukam, Casper
Peissner, Frank J.
Robb, Arthur
Roche, Ed.
Roemer, John
Schlosser, Frank
Schmidt, J. Edward
Schneider, Ernest R.
Schroeder, Theodore C.
Schuller, John
Schwarz, G. A.
Steckman, H. Ford
Stein, W. M.
Tebens, Anthony
Ulrich, Frank E.
Valentine, John
Walsh, Andrew J., Jr.
Welfelt, Abe
Werner, Henry
Willis, Stanley G.
Wilson, P. M.
Wittstadt, George
Woods, John P.
Wright, Randolph K.
Yost, John
Zelokoski, Felix
Zinck, George C.

EXTENSION CLASSES IN MINING

FROSTBURG CLASS

Adams, David
Anthony, Gershon
Bahen, John
Baker, James M.
Baxter, Kinney
Beal, William
Bender, Lester
Boettner, Roy
Brode, Solomon H.
Bruner, William J.
Byrnes, Bernard D.
Byrnes, Lawrence
Carter, Frank W.
Caruso, Mike
Casey, John L.
Close, James H.
Close, Noah
Conrad, Charles
Davis, Archie
Delaney, Frank
Dennison, Allan
Dennison, Clayton
Donahue, William J.
Doram, John J.
Edwards, Robert L.
Eisel, William R.
Emerson, David
Ewing, Robert
Fatkin, John M.
Festerman, Walter
Griffith, William
Harris, Thomas E.
Hartig, John S.
Hartig, Philip
Hawkins, Richard
Haverstick, S. Graff
Hayes, Beverly
Hitchins, Harry
Hoye, Peter
Huber, Oscar
Jenkins, Charles
Jenkins, Fred J.
Keiling, John
Kelly, John L.
Kemp, George L.
Kergan, Cecil
Kidwell, John H.
Kergan, Robert H.
Kight, Elmer S.
Kinney, P. J.
Kock, Joseph
Kreitzberg, William H.
Laber, James
Lancaster, James
Laurie, Charles E.
Lee, Maurice
Lewis, Charles E.
Lewis, Thomas F.
Long, Hubert E.
Long, Samuel
Mathias, Max
McKernan, Thomas
McLuckie, George W.
McMannus, Andrew
Meager, Victor
Monahan, Edward
Medero, Frank
Neal, Alex C.
Parise, Thomas
Phillips, John
Piper, James
Powell, Thomas B.
Powers, Clarence
Price, Daniel E.
Pinto, Caramelo
Rempel, Hugo
Rephorn, William H.
Richardson, George
Riffle, Fred
Sandvik, Albert
Scarpelli, Nick
Seibert, Jacob
Sleeman, William
Smith, Leslie S.
Spina, Frank
Stevens, Eugene
Stevenson, James

Struntz, John
Tippen, Walter
Tipping, George
Tennant, George
Thomas, William H. R.
Thompson, James
Walker, Samuel B.
Weisenborn, Henry
Williams, Frank J.
Wolfe, Charles

KITZMILLER CLASS

Amtower, John
Bishop, Ashley
Brown, John
Burrell, Edward
Burrell, Fitzhugh
Campbell, John N.
Chisholm, A. J.
Crichton, W. A.
Dively, R. E.
Evans, Paul
Harris, A. W.
Hart, Irvin
Hartley, William M.
Holliday, H. E.
Jones, C. H.
Jones, William R.
Lemon, William
McIntyre, Claude
Newhouse, Joseph
Newhouse, Stephen
Parrish, George
Paugh, Charles E.
Paugh, John W.
Paugh, W. C.
Pritts, George W.
Rosser, Thomas
Sharpless, Leslie
Shore, John W.
Spiker, E. C.
Tasker, Osburn W.
Walker, Jesse J.
Walker, W. D. Sr.
Walker, W. D., Jr.
Yokum, R. H.

LONACONING CLASS

Atkinson, Edward G.
Barry, John M.
Beeman, William H.
Berry, Joseph F.
Bradburn, Isaac M.
Connor, Henry
Dunn, Lawrence
Eberly, Joseph
Foote, John R.
Gatrall, Edward C.
Hughes, John
Kallmyer, Walter
Kirkwood, Robert
Laird, Clarkson
Langley, John
McElvie, J. A.
McFarland, James G.
McGeady, M. A.
McFarland, Samuel B.
Meerbach, Robert
Miller, James A.
Miller, W. J. B.
Morgan, Harold
Morgan, Marcellus
Muir, Edward R.
Nicol, Thomas
Plummer, David B.
Quinn, J. Frank
Rankin, William H.
Rankin, Harper
Reed, Ralph
Simpson, Albert L.
Simpson, William H.
Sloan, James H.
Stevenson, John I.
Stewart, Arch.
Todd, Robert K.
Wallace, John D.
Whiteman, Simeon

MT. SAVAGE CLASS

Aldon, George
Andrews, Robert
Barth, Lawrence
Barth, Roy L.
Boore, Norman
Brailer, Joseph
Carter, Edward
Deffinbaugh, Albert
Finzel, Joseph E.
Henaghan, John J.
Holtzman, Howard
Jenkins, Joseph T.
Machin, Albert
Machin, Gilbert
McKenzie, Francis
Means, Sheridan
Merrill, Frank
Merrill, Jesse R.
Snyder, Frank
Snyder, Irvin
Snyder, Marshall
Snyder, William
Stowell, Edward
Trimble, V. K.
Twigg, Elza H.
Warner, William
Williams, Bradford

WESTERNPORT CLASS

Ambrose, St. C.
Ashby, R. M.
Arnold, Harmon B.
Barnard, William S.
Biggs, Herbert L.
Brown, J. P.
Darrow, James E.
Evans, Luther
Frenzel, Albert L.
Griffith, Curtis
Guy, J. F.
Guy, J. P.
Heffner, George
Hoopengardner, Joseph
Hughes, John T.
Kelly, John J.
Kight, L. R.
Knott, E. G.
Magruder, Frank
Maybury, Robert H.
McDonald, Allan
Mullen, J. B.
Penman, Andrew
Rankin, John
Roberts, Ruel C.
Shuhart, Joseph
Swann, Thomas P.
Ternent, Alex
Tibbett, John
Watson, Martin L.
Warnick, Charles E.

COLLEGE OF ENGINEERING

SENIOR CLASS

Aldridge, Howard R., Mt. Savage
Bartlett, Wirt D., Centreville
Baum, Edwin C., Washington, D. C.
Bowie, John, Jr., Annapolis Junction
Bowser, Merle L., Kittanning, Pa.
Burnside, Douglas D., Washington, D. C.
Castella, Charles C., Riverdale
Collins, Stanton J., Sparrows Point
Compher, Carlton M., Doubs
Coronel, Ulpiano, New York City, N. Y.
DeCaindry, William A., Baltimore
Foard, James H., Aberdeen
Ford, Watson I., Baltimore
Hook, Addison E., Baltimore
King, Barnwell Rhett, Branchville
Knox, Howard L., College Park
Knox, Lloyd T., Jr., College Park
Lewis, Gomer, Washington, D. C.
Lewis, William H., Elkton
Litchfield, Chas. W., Washington, D. C.
Lillie, Francis T., Takoma Park
Matthews, Kenneth F., Washington, D. C.
McCune, Wm. T., Elkton
Meeds, Nelson T., Silver Spring
Melchoir, Louis F., Washington, D. C.
Melton, Edw. Roane, Jr., Washington, D. C.
Mills, J. E. Wayne, Washington Grove
Morris, Paul, St. Michaels
Prangley, Arthur G., Washington, D. C.
Rogers, Fred H., Washington, D. C.
Sanders, Warrington R., Washington, D. C.
Troxell, William F., Gaithersburg
*Vandoren, Theodore J., Hyattsville
Warren, John S., Pomonkey
Watkins, Benjamin, 3rd, Davidsonville

JUNIOR CLASS

Aldridge, David D., Frederick
Allen, Edw. Russell, Towson
Bishop, William E., Washington, D. C.
Blades, Samuel L., Sudlersville
Bonnett, Arthur E., Washington, D. C.
Brayton, Jean H., Washington, D. C.
Caruthers, Robert S., Riverdale
Coakley, Forrest, Havre de Grace
Coblentz, Edw. P., Catonsville
Cooling, William C., Chesapeake City
Cromwell, Thomas M., Ruxton
DeAtley, Ellsworth F., Washington, D. C.
Fisher, Albert B., Point of Rocks
Glover, Charles P., Mt. Airy
Kellermann, William F., Washington, D. C.
Kline, William M., Washington, D. C.
Lang, John C., Pocomoke
Lebowitz, Samuel, Mt. Rainier
Lowry, Gilbert, Washington, D. C.
Magalis, Benjamin W., Brunswick
McCauley, George M., Washington, D. C.
McFadden, Charles P., Elkton
McKeige, Edward E., Mt. Rainier
Morris, John D., Sykesville
Moseman, Carvel G., Washington, D. C.
Parker, Alvin M., Washington, D. C.
Pinney, Millard A., Washington, D. C.
Revelle, John E., Washington, D. C.
Rothenhoefer, Frank W., Frederick
Runkles, Oliver W., Mt. Airy
Seth, Joseph B., St. Michaels
Strite, Russell B., Baltimore
Thompson, Edward S., Rosslyn, Va.
Trimble, William R., Washington, D. C.
†Waters, John W., Washington, D. C.
White, Martin H., Washington, D. C.
Yilek, Joseph J., Washington, D. C.

SOPHOMORE CLASS

Atkinson, Walter S., Pocomoke
Bewley, William G., Berwyn
Boteler, Clifford E., Beltsville
†Bowie, Andrew K., Riverdale
Boyd, Arthur C., Washington, D. C.
Butler, Charles W., Washington, D. C.
Coblentz, Oscar B., Jr., Catonsville
Crawford, Thomas B., Havre de Grace
Davis, Robert B., Baltimore
Easter, Henry J., Overlea
Elgin, Wade H., Washington, D. C.
England, Adelbert G., Rasreburg
†Fettus, George H., Jr., Folcroft, Pa.
Finch, Harold W., Washington, D. C.
Fox, Henry C., Baltimore
Funk, Creston E., Hagerstown
Garber, Harry F., Washington, D. C.
Glover, Nathan D., Mt. Airy
Hassler, Howard E., Washington, D. C.
Hickox, Malcolm, Washington, D. C.
Iglehart, William H., Washington, D. C.
Jacob, Harvey A., Washington, D. C.
Kaiser, John F., Washington, D. C .
Korff, Wm. F., Baltimore

LeSueur, Benjamin W., Baltimore
Lyons, Thomas H., Clinton
Lynn, Roland A., Hagerstown
Marks, Edward B., Washington, D. C.
Marseglia, M., Washington, D. C.
Marshall, William R., Washington, D. C.
†Metzeroth, Eric C., Washington, D. C.
Mitchell, James R., Wetipquin
Morrison, George W., Port Deposit
Murray, Herbert S., Washington, D. C.
Ninas, George A., Gaithersburg
Noll, Adam M., Ellicott City
Peverill, William L., Washington, D. C.
Rohrbaugh, Robert M., Mt. Rainier
Schreiner, Louis R., Chevy Chase
Scott, Edward W., III, Warren, Va.
†Seibert, Joseph H., Clearspring
Sipes, Ralph M., Hydes
Smither, Herbert A., Cumberland
Spence, Kenneth F., Hancock
Stevens, Raymond L., Hyattsville
Street, Wilbur A., Govans
Thomen, Harold O., Washington, D. C.
Triplett, Paul W., Cumberland
Trotter, James E., Washington, D. C.
Van Wagner, Kingsley, Washington, D. C.
Weber, Charles S., Oakland
Wenner, Edward M., Point of Rocks
White, Wilbur M., Princess Anne
Wooster, Mallery O., Berwyn

FRESHMAN CLASS

Bafford, Joseph H., Solomons
Baird, Lester P., Washington, D. C.
Basford, Alvin, Washington, D. C.
Bean, Robert C., Washington, D. C.
Bomberger, Lawrence J., College Park
Bowman, Julian U., Germantown
Brady, Leslie R., Laurel
Bruehl, William O., Centreville
Bryan, William L., Washington, D. C.
Burdette, William M., La Plata
Carter, Richard A., Greensboro
Caulk, Franklin J., Sharptown
Chappelear, John A., Hughesville
Clausell, Carlos A., Mexico City, Mexico
Cleveland, James Y., Washington, D. C.
Clinton, Robert, Washington, D. C.
Conner, F. Reede, Washington, D. C.
Dallas, Harry A., Salisbury
Daly, John K., Washington, D. C.
Davidson, James S., Washington, D. C.
Diener, Alfred F., Washington, D. C.
Donaldson, Frank D., Laurel
Duvall, John C., Washington, D. C.
Dynes, William A., Chevy Chase
Emerson, Robert B., Washington, D. C.
Fahrney, Philip E., Frederick
Fessenden, George W., Washington, D. C.
Garrett, Franklin T., Takoma Park, D. C.
Goldman, Nelson E., Washington, D. C.
Greenwood, Arthur W., Washington, D. C.
Hackman, George C., Sparrows Point
Hall, Richard S., Waterbury
Haller, Franklin M., Brandywine
Hampton, Horace R., Chevy Chase
†Helldorfer, Joseph O., Baltimore
Hitch, Robert A., Washington, D. C.
Hoage, Alden W., Washington, D. C.
Hodgeson, Raymond B., Silver Spring
Hurd, Clarence J., Washington, D. C.
Johnson, Edward W., Shepherdstown, W. Va.
Jones, Joel R., Laurel
Jones, Morris J., Pittsville
Kielty, John J., Aberdeen
Leschinsky, Frank A., Annapolis Junction
Loux, John H., Hurlock
Lowe, Delbert B., Mt. Rainier
Mackintosh, James T., Washington, D. C.
Maloney, Herndon L., Washington, D. C.
Matthews, John A., Cumberland
Miller, Norman E., Bethesda
Miller, Robert S., Cumberland
Moore, Harold F., Hancock
Newkirk, Meigs E., Washington, D. C.
Norris, Elick E., Washington, D. C.
Oldenburg, Lester W., Hyattsville
Paige, Edwin C., Linthicum Heights
Palmer, Robert L., Landover
Parris, Donald S., Harpers Ferry, W. Va.
Preston, Samuel A., Aberdeen
Printz, William W., Washington, D. C.
Putnam, William D., Garrett Park
Rader, O. Lester, Washington, D. C.
Richard, George R., Goldsboro
Riess, Herman P., Washington, D. C.
Schaefer, Alfred H., Baltimore
Shelton, Charles L., Chevy Chase
Shoemaker, William S., Bethesda
Sichi, William T., Washington, D. C.
Stephens, Thomas H., Washington, D. C.
Strohman, Joseph W., Washington, D. C.
Sullivan, William W., Landover
Swenton, Charles S., Meriden, Conn.
Thomas, Lewis W., Washington, D. C.
Vierkorn, Jack, Washington, D. C.
Wells, Harry W., Chevy Chase
Welsh, Robert R., Washington, D. C.
Whelchel, David L., Washington, D. C.
Williams, John A., Morgantown, W. Va.
Williams, Walter M., Washington, D. C.
Wilson, B. Douglas, Washington, D. C.
Wolf, Harry L., Washington, D. C.
Woolard, Maurice E., Washington, D. C.

UNCLASSIFIED

Powell, Robert W., College Park

GRADUATE SCHOOL

Aldrich, Willard W., Port Deposit
Anderson, Pearl, College Park
Besley, Arthur K., Baltimore
Boswell, Victor R., Columbia, Missouri
Boyer, A. James, Washington, D. C.
Brewer, Virginia W., College Park
Brookens, P. Floyd, Hyattsville
Browning, Avery, Myersville
Burdette, Robert C., Washington, D. C.
Burroughs, John A., Oakland
Cadisch, Gordon F., Westbury, N. Y.
Conrad, Carl M., Burlington, Kansas
Cooke, Giles B., Gloucester, Va.
Darkis, Frederick R., College Park
Doan, Francis J., Riverdale
Ellis, Ned R., Washington, D. C.
Erickson, Easton E., Baltimore
Flenner, Albert L., Hyattsville
Greenbank, George R., Washington, D. C.
Haines, George, Hyattsville
Hale, Roger F., Towson
Haller, Mark H., Washington, D. C.
Harley, Clayton P., Royersford, Pa.
Hitchcock, Albert E., Washington, D. C.
Horn, Millard J., Washington, D. C.
Hunter, Herman A., Clinton, S. C.
Isbell, Horace S., Riverdale
Kemp, William B., Washington, D. C.
Kimbrough, William D., Summerdale, Ala.
Krantz, John C., Baltimore
Leatherman, Martin L., Lodi, Ohio
Lichtenwalner, Daniel C., Hyattsville
Liu, Ho, Peking, China
Marker, Russell E., Hagerstown
McCall, Max R., Takoma Park
McConnell, Harold S., Anderson, S. C.
McKibbin, Reginald R., Ottawa, Canada
Melroy, Malcolm B., Washington, N. J.
Miller, Erston V., Hagerstown
Mook, Paul V., Saegertown, Pa.
Moran, John A., Frederick
Mumford, John W., Jr., Mt. Rainier
Nichols, Norris N., Delmar, Del.
O'Donnell, Frank G., Clarendon, Va.
Ordeman, Daniel T., Frederick
Poelma, Leo J., Riverdale
Pope, Merritt N., Falls Church, Va.
Popense, Charles H., Silver Spring
Preinkert, Margaret, Washington, D. C.
Reinmuth, Otto P. H., Catonsville
Remsberg, Harold A., Middletown
Schrader, Albert L., Washington, D. C.
Shillinger, Jacob E., Easton
Siegler, Edward, Takoma Park
Skilling, Francis C., Baltimore
Smith, Arthur M., College Park
Synder, Joseph, Riverdale
Stamp, Adele H., College Park
Starkey, Edgar B., Sudlersville
Stevens, Edwin H., La Plata
Straka, Robert P., Homestead, Pa.
VandenBosche, E. Gaston, Detroit, Mich.
Wadkins, Ross F., Opelika, Ala.
Walker, William P., Mt. Airy
Walter, Henry M., Washington, D. C.
Watkins, Robert M., Mt. Airy
Weber, Wilhelm H., Oakland
Weimer, Winifred, Alliance, O.
Welsh, Claribel P., College Park
Welsh, Mark F., College Park
White, Charles E., College Park
White, John I., Washington, D. C.
Whitehouse, William E., Hyattsville
Wiley, Raymond C., College Park
Zucker, Lois M., Riverdale

COLLEGE OF HOME ECONOMICS

SENIOR CLASS

Harbaugh, Mary, Washington, D. C.

JUNIOR CLASS

Langenfeldt, Marie E., Hyattsville
O'Neil, Julia M., Washington, D. C.

SOPHOMORE CLASS

Beyerle, Helen G., Baltimore
Blandford, Josephine M., College Park
Calbreath, Ellen F., Washington, D. C.
Chesnut, Gertrude, Hyattsville
Keiser, Ellen J., Washington, D. C.
Mankin, Jane L., Washington, D. C.
McRae, Ruth H., Riverdale
Muncaster, Jessie F., Rockville
Orton, H. Alberta, Takoma Park, D. C.
Prentiss, Jean E., Washington, D. C.
Ripple, Grace A., Cheltenham

FRESHMAN CLASS

Bourke, Mary L., Washington, D. C.
Davis, Dorothy V., Ridgely
Edmonds, Olive S., Rockville
Gunby, Frances L., Salisbury
Proctor, Mildred E., Mt. Rainier
Williams, Ruth T., Lanham
York, Mary S., College Park

UNCLASSIFIED

Kharasch, Ethel M. (Mrs.), Riverdale
Rawley, W. A. (Mrs.), College Park
Riley, Mary E., Catonsville

SCHOOL OF LAW

SENIOR CLASS

Aaron, Howard L., Baltimore
Abramowitz, J. Max, Baltimore
Abramson, Oscar, Baltimore
Adkins, John Edward, Jr., Salisbury
Aiken, Gerald Randolph, Catonsville
Arnold, Charles Graham, Brunswick
Baer, Eli, Baltimore
Baker, Orison Wayne, Baltimore
Bartholow, Joseph Carroll, Baltimore
Baumann, John Baltimore
Bennett, Aubrey Kenneth, Federalsburg
Benson, James Lemon, Baltimore
Bounds, Carroll Edward, Allen
Bounds, Wade Goldsborough, Allen
Bowen, John Bird, Baltimore
Brennan, Peter John, Baltimore
Bressler, Ida, Baltimore
Bronner, Charles Joseph, Detroit, Mich.
Brown, Forrest Nicholas, Frederick
Brownstein, Wm. N., Baltimore
Buchoff, Joseph O., Baltimore
Buduitz, Emil Aird, Baltimore
Burch, James Cooke, Baltimore
Cairns, Huntington, Baltimore
Calloway, Newell Mason, Baltimore
Carter, Joseph Floyd, Eckhart Mines
Chambers, Benjamin, Baltimore
Cohen, Ellis, Baltimore
Collins, Stephen Robert, Chestertown
Corcoran, John Neil, Baltimore
Coyle, Wilbur Franklin, Jr., Baltimore
Culotta, Joseph John, Baltimore
Desney, Keneth Davenport, Baltimore
Edelman, Jacob Joseph, Baltimore
Ehudin, Marcy Max, Baltimore
Faithful, B. Leon, Baltimore
Fedder, Morris, Baltimore
Feldstein, Samuel Henry, Baltimore
Fink, Herbert, Baltimore
Freehof, Louis Judah, Baltimore
Fried, Louis C., Baltimore
Gerber, Herman J., Baltimore
Getz, Meyer Henry, Bel Air
Goodman, Max, Baltimore
Gough, Ralph Augustus, Lewistown
Greenstein, Edward, Baltimore
Hale, John Isaac, Annapolis,
Hamm, William Jones, Baltimore
Hammond, Francis Hall, Baltimore
Harris, Alexander Cosgrove, Baltimore
Harris, Gertrude, Baltimore
Helfrich, George Edmund, Baltimore
Herman, Harry Samuel, Baltimore
Hill, Stirling, Baltimore
Hillman, Sidney, Baltimore
Hoff, Charles Worthington, Baltimore
Humphreys, Harry Nelson, Baltimore
Jacobs, Sidney Melbourne, Baltimore
Kallinsky, Sigmund R., Baltimore
Kaufmann, Norman, Baltimore
Keating, Thomas James, Jr., Centreville
Kernan, Anthony Eugene, Baltimore
King, Daniel Denvon, Baltimore
Kramer, Herman Walter, Baltimore
Kramer, John Edmund, Baltimore
Kratz, John Ernest, Baltimore
Kriegel. Leo, Baltimore
Kreiger, Abraham, Baltimore
Lambert, Milton Franklin, Baltimore
Levin, Isidore Ernest, Baltimore
LeViness, Charles Thabor, Jr., Baltimore
Levy, Herman Frank, Baltimore
Levy, Julius S., Baltimore
Lloyd, William Thomas, Baltimore
McGolerick, Wilbur Franklin, Wenerton
Maher, Edward A., Baltimore
Mallek, Emil Theodore, Baltimore
Mazor, Alfred, Baltimore
McAllister, Lloyd Goldsborough, Vienna
McKelden, Theodore Roosevelt, Baltimore
Meid, Albert, Jr., Baltimore
Miller, Goldie Rose, Baltimore
Miller, Harry Manuel, Baltimore
Moshkerich, Max, Baltimore
Mullikin, James Clayland, Easton
Mullikin, Oliver Smith, Easton
Myers, Willis Adelbert, Baltimore
Obrecht, Charles Frederick, Baltimore
Parlett, Edward Lambert, Baltimore
Peregoff, Ellis, Baltimore

Perel, Samuel, Baltimore
Perry, M. Graydon, Greensboro
Pittman, Martin Luther, Baltimore
Pritchett, Wilbur Jester, Jr., Bishop's Head
Proser, Bernard U., Baltimore
Putzel, Edward Lewis, Baltimore
Race, Alban Major, Baltimore
Reed, Robert Russell, Brunswick
Richardson, Standley Leroy, Baltimore
Rose, Douglas H., Baltimore
Rosenstock, Benjamin B., Rose Haven
Sandrock, Julius Frederick, Baltimore
Schmelz, Frederick, Baltimore
Schmidt, George John, Baltimore
Sear, Abram, Hampton, Va.
Shefferman, Julius, Baltimore
Silverman, Benjamin Herman, Baltimore
Sinnott, Katherine Agnes, Baltimore
Smith, Edward Albert, Baltimore
Smith, Nicholas McCubbin, Baltimore
Sowers, William Risque, Annapolis
Spector, Joseph William, Baltimore
Stonestreet, Henrietta Dunlop, Baltimore
Stulman, Oscar, Baltimore
Sultan, Walter Edward, Baltimore
Sybert, Cornelius Ferdinand, Elkridge
Taylor, Wilson Everett, Baltimore
Thompson, Richard Henry, Baltimore
Tongue, Franklin Magruder, Solomon's
Townsend, Miles Dale, Randallstown
Vorsteg, Ethel Rita, Baltimore
Wase, Joseph, Baltimore
Watkins, Robert Dorsey, Mt. Washington
Weil, Isadore, Baltimore
Wolfe, Philip Earnest, Baltimore
Wrightson, William Dorman Gill, Baltimore

INTERMEDIATE CLASS

Adelberg, Harry, Baltimore
Ash, George Reynolds, Elkton
Baker, Morris A., Baltimore
Barrett, Lester Loyis, Lansdowne
Bauer, Gerard Frederick, Baltimore
Beacham, Robert Joseph, Jr., Baltimore
Becker, Joseph W., Baltimore
Beigel, Philip, Baltimore
Black, Roy Edward, Baltimore
Blaustein, Bernard N., Baltimore
Bostetter, Martin Van Buren, Hagerstown
Brown, Helen Elizabeth, Baltimore
Burns, John Francis, Baltimore
Butler, John Marshall, Baltimore
Colwell, Walter Scott, Baltimore
Campbell, Kenneth Haughey, Baltimore
Carliner, Samuel, Baltimore
Civis, Joseph A., Baltimore
Coady, Charles Pearce, Jr., Baltimore
Cohen, Calvin E., Baltimore
Cohen, John Harry, Baltimore
Cohen, Paul Morton, Baltimore
Cohen, Raymond, Baltimore
Cohen, Sidney, Baltimore
Colvin, Joseph, Baltimore
Connors, Thomas Joseph, Pittsfield, Mass.
Cooper, Hart, Baltimore
Coopere, Margaret Baldner, Baltimore
Daily, Frank John, Baltimore
Day, Stewart Oscar, Rocks
Doub, George M. Cochran, Cumberland
De Lauder, Thomas Andrew, Baltimore
Delea, Michael Francis, Baltimore
Denhard, August Adam, Baltimore
Di Cenzo, George Gismond, Baltimore
Di Domenico, Anthony Francis, Baltimore
Diehm, Victor Christian, Sparrows Point
Dillon, John Joseph, Baltimore
Ditto, John Henry, Baltimore
Dunn, Melville Hunter, Baltimore
Eder, Joseph Raymond, Baltimore
Eisenberg, Samuel Solomon, Baltimore
Engler, Donald Herbert, Baltimore
Epstein, Max, Baltimore
Evans, Harvey L., Lexington, N. C.
Every, Frank William, Baltimore
Feldman, Nathan, Baltimore
Fink, William, Baltimore
Fisher, Irwin Herbert, Baltimore
Fitzsimmons, Carroll Francis, Baltimore
Fogle, John Robertson, Baltimore
Franklin, Neal Dow, Camp Meade
Freed, Alexander, Baltimore
Freeze, Frank Leo, Jr., Baltimore
Friedenberg, Aaron, Baltimore
Galvin, John Patrick, Jr., Baltimore
Goldman, Sydney Bert, Baltimore
Goldsborough, LeRoy Francis, Ruxton
Goldsmith, Howard Franklin, Baltimore
Golomb, Philip Nathan, Baltimore
Gomborov, Samuel Hertzel, Baltimore
Greenfeld, William, Baltimore
Hagner, Thomas John, Baltimore
Hallam, Joseph Henry, Baltimore
Hamburger, Nathan, Baltimore
Hancofsky, Michael, Baltimore
Harman, Stanley K., Baltimore
Harmatz, Leonard, Baltimore
Harrison, Erman, Baltimore
Hecht, Lawrence Weis, Havre De Grace
Hendelberg, Philip, Baltimore
Hoffa, James Melvin, Lonaconing
Holmes, Arthur Charles, Baltimore
Hood, John Wilson, Baltimore
Horine, Dawson, Myersville
Hudgins, Leslie Granberry, Gwynn, Va.

Huey, Edward G., Ruxton
Iverson, George Dudley, Jr., Baltimore
Iverson, George Dudley, 4th, Baltimore
Joblin, Israel Milton, Baltimore
Johns, Thomas Morris, Baltimore
Jones, Edward Croxall, Baltimore
Kappelman, Leon Irving, Baltimore
Kaufman, Ora Viola, Relay
Kelso, Charles Alexander, Jr., Baltimore
Kirkpatrick, Andrew M., Jr., Baltimore
Kirwan, Jesse Dallas, Baltimore
Klein, Irvin, Baltimore
Klitzner, Frank, Baltimore
Kloze, Ida Iris, Baltimore
Knabe, Lloyd Condon, Baltimore
Kurland, Edwin Lee, Baltimore
Lankford, Benjamin Garrison, Baltimore
Laukaitis, John Joseph, Lansdowne
Lederman, Edward, Baltimore
Leven, Milton, Baltimore
Levene, August, Baltimore
Levey, Harry Isidore Deacon, Baltimore
LeViness, Charles Thabor, II., Baltimore
Lipman, Samuel George, Baltimore
Lott, Harry, Baltimore
Lowe, Allan Bennett, Baltimore
Luke, Richard Timberlake, Charleston, W. Va.
Malan, Albert Arnold, Baltimore
Marshall, William Harvey, Baltimore
Masson, Charles Augustus, Baltimore
McMahon, Daniel Alan, Baltimore
Metcalfe, Herbert Collins, Baltimore
Middleton, Samuel Atherton, Centreville
Mihm, Leslie Ellsworth, Mt. Washington
Miller, Luther Bonnet, Irvington
Minahan, Raymond Donald, Sparrows Point
Mindel, Hyman, Baltimore
Mish, Joseph Dubbs, Hagerstown
Moore, John Jacob, Eckhart
Moore, John Peter, Woodbrook
Mount, Charles Owens, Baltimore
Mulford, Harry Seeley, Baltimore
Myerberg, David, Baltimore
Myers, Israel, Baltimore
Myers, John Bricker, Arnolds
Nathanson, Melvin, Baltimore
Novey, Julius, Baltimore
Nuttle, Everett, Federalsburg
O'Dell, Edward Choate, Baltimore
Pairo, Preston A., Baltimore
Patz, Nathan, Fayetteville, N. C.
Pear, Solomon, Baltimore
Perry, Thornton Tayloe, Baltimore
Pfaffenbach, George Arnold, Havre De Grace
Powell, Bernard Renshaw, Franklin City, Va.
Respess, Homer Maurice, Baltimore
Rice, Thomas Warren, Baltimore
Rifman, Abraham, Baltimore
Roeder, George H., Baltimore
Rollins, Clarence Linwood, Baltimore
Rostovsky, Abraham, Baltimore
Rubenstein, Arthur Charles, Baltimore
Rubin, Irwin, Baltimore
Sachs, Abraham Isaac, Baltimore
Saffell, William Headington, Reisterstown
Sager, Harry Herman, Front Royal, Va.
Sahm, Louis Albert, Baltimore
Savage, Bernard M., Baltimore
Schilpp, Carroll Benson, Baltimore
Schmidt, Edward Holloway, Baltimore
Schmidt, Robert Austin, Baltimore
Scholtz, Erwin V., Baltimore
Schultz, Kendall Hamilton, Baltimore
Selenkow, Annette, Baltimore
Shafer, Lester Thomas Daniel, Baltimore
Sherr, Meyer Marston, Baltimore
Shochet, Jacob Elijah, Baltimore
Silberstein, Louis, Baltimore
Silver, Barnett L., Baltimore
Silver, Morris L., Baltimore
Smalkin, Samuel, Baltimore
Smith, Arthur Hull, Baltimore
Smith, Clater Webb, Baltimore
Smith, Joseph Martin, Glyndon
Stewart, Rae Winchester, Baltimore
Stine, Isaac Frederick, Winchester, Va.
Stockbridge, Sylvester Lamson, Baltimore
Sweetman, Charles K., Baltimore
Sykes, Alfred J., Baltimore
Talkin, Milton Harry, Baltimore
Taylor, Levin Paul, Quantico
Trieschman, Albert Ewell, Randallstown
Tull, James Leroy, Annapolis
Tull, Samuel Webster, Baltimore
Ulman, Paul Alvin, Baltimore
Usilton, David Richard, Baltimore
Vickers, Powell, Baltimore
Walbeck, James Melvin, Forest Hill
Ways, Charles Max, Baltimore
Waegner, Roland Miller, Baltimore
Weil, John de Ford, Baltimore
Weinstein, Joseph, Baltimore
Williams, John D., Jr., Baltimore
Williams, Max, Baltimore
Winter, Irvin David, Baltimore
Wolfel, William Elmer, Baltimore
Zetzer, Samuel Robert, Hamilton

JUNIOR CLASS

Abramson, Leon, Baltimore
Abrecht, George Francis, Frederick
Adler, Bernard Benjamin, Baltimore
Albert, Morris, Baltimore
Allnutt, Robert Wilkerson, Dawsonville
Applefeld, Leon, Baltimore
Archer, James Glasgow, Bel Air
Baker, Russell John, Baltimore
Baldwin, Rignal Woodward, Baltimore
Bartels, William Nicholas, Baltimore
Becker, Benjamin Sydney, Baltimore
Becker, Edward DeFalco, Baltimore
Bennett, Homer Brooks, Federalsburg
Benson, Arthur Emory, Baltimore
Berkowitz, Henry George, Baltimore
Berman, Jacob, Baltimore
Blickenstaff, Harold E., Boonsboro
Bloom, Benjamin Milton, Baltimore
Bolard, Rudolph Frank, Jr., Baltimore
Bond, Earle Isadore, Baltimore
Bowers, Martin Luther, Frederick
Boyer, Ruhland Clifford, Baltimore
Brannan, Edward Janney, Baltimore
Bready, Henry Yewell, Jr., Baltimore
Brown, James Robert, Jr., Baltimore
Bryan, Richard McGrann, Baltimore
Bryant, Earle Rochester, Denton
Burger, Gerard Theodore, Baltimore
Calabrese, Frank, Newark, N. J.
Caplan, Reuben, Baltimore
Carmody, Ivan Murray, Baltimore
Carter, Conway Singleton, Baltimore
Caruso, Ferdinand I., Clarksburg, W. Va.
Cohen, Hyman I., Baltimore
Cohen, Louis, Baltimore
Cohen, Samuel Jacob, Baltimore
Darley, George Leslie, Baltimore
Darsch, Earl Philip, Hamilton
Dorsey, Charles Albert, Pikesville
Downes, James Denny, Jr., Baltimore
Doyle, James, Towson
Ephron, Harmon Saul, Baltimore
Everett, John Wesley, Centreville
Farber, Solomon Hyman, Baltimore
Fasano, Arnold, New Haven, Conn.
Ferguson, William Kingsbury, Baltimore
Field, Ben, Baltimore
Fitzsimmons, William Joseph, Baltimore
Flautt, Gibson Ernest, Baltimore
Ford, John Gerand, Baltimore
Forestell, Frank William, Baltimore
Forsythe, Carl, Baltimore
Freeman, Aaron, Baltimore
Freeman, Ellis, Baltimore
Frere, Bartlett Edwin, Tompkinsville
Fribush, Abe, Baltimore
Friedman, Max, Baltimore
Friese, Philip Creery, Riderwood
Fusco, Ernest Francis, New Haven, Conn.
Geckle, George F., Jr., Baltimore
Gemmill, William Freeland, Baltimore
Gersow, Lillian, Baltimore
Gillespie, Allen Lee, Baltimore
Gillespie, William Andrew, Jr., Baltimore
Ginsburg, Herman Robert, Baltimore
Ginsberg, Hyman, Baltimore
Goldstein, Aaron Irving, Baltimore
Goldstein, Clarence Morton, Baltimore
Goldstein, Ellis, Baltimore
Goner, Bessie, Baltimore
Goodman, Max, Baltimore
Gordon, Max, Waterbury, Conn.
Gould, Justinus, Baltimore
Grafflin, Frank Watkins, Baltimore
Green, Harry Joseph, Baltimore
Greenberg, Rosalind, Baltimore
Gueydan, Lucie Marie, Baltimore
Gutman, Charles Henry, Baltimore
Hackerman, Milton M., Baltimore
Hall, Dorothy M., Baltimore
Handy, Sydney S., Jr., Annapolis
Harlan, Enoch Lewis, Baltimore
Harrett, Lee Joseph, New York, N. Y.
Hartman, Charles Christian, Baltimore
Helm, Herbert Monroe, Baltimore
Henderson, Edwin Earle, White Hall
Hessenaner, James Christopher, Hamilton
Higgins, James Billings, Baltimore
Hillman, Sydney Edgar, Baltimore
Hindin, Sidney B., Baltimore
Hoffman, Joseph, Baltimore
Hudgins, Charles Holmes, Gwynn, Va.
Hurwitz, Sylvan, Baltimore
Iglehart, Harry Augustus, Baltimore
Jaffe, Henry A., Baltimore
Janofsky, Louis, Baltimore
Jenifer, Thomas Mitchell, Loch Raven
Johannsen, Mildred, Baltimore
Kaufman, Harry Donald, Baltimore
Kerr, Nelson Reede, Baltimore
King, Joseph Alexander, Baltimore
Klein, Daniel Eugene, Baltimore
Koontz, Charles Nelson, Stanley, Va.
Krantz, Maximilian Walter, Baltimore
Lazarus, Samuel, Baltimore
Lebowitz, Manuel, Baltimore
Legg, John Henry E., Centreville
Levin, Sigmund, Baltimore
Levin, Solomon Benjamin, Baltimore
Levinson, Joseph Benjamin, Welch, W. Va.
Levy, Walter J., Baltimore
Leyko, James Walter, Baltimore

Lipnick, David Aaron, Baltimore
Lyden, Edward Francis, Baltimore
Lyon, Robert Murray, Baltimore
MacGregor, Robert Wright, Baltimore
Mackert, William Raymond, Baltimore
Muddrix, Frederick Kirk, Baltimore
Mahr, Abraham, Baltimore
Main, Marshall Eugene, Frederick
Malin, Harry Lisker, Baltimore
Manfuso, John A., Baltimore
Marcin, Thomas George, Stemmers Run
Margolin, Aaron, Baltimore
Markoff, David, Baltimore
McGovern, Jos. F. T., Jr., Baltimore
McGowan, Joseph Harrington, Baltimore
McKay, Douglass Alexander, Baltimore
McKenny, John, Centreville
Mendels, Joel, Baltimore
Merrill, Yale, Baltimore
Meyer, Leo John, Baltimore
Miller, Harry Henry, Baltimore
Moore, Herbert Corwin, Jr., Baltimore
Moriarty, Edward Eugene, Baltimore
Morrison, Harry, Baltimore
Mund, Alfred Samuel, Baltimore
Murphy, Edwin Joseph, Baltimore
Murray, Charles Athey, Baltimore
Musselman, William Tracy, Manchester
Nasdor, Harry Leonard, Baltimore
Newman, Maurice Everest, Trappe
Ningard, Paul Sylvester, Govans
Norris, William Isaac, Jr., Baltimore
O'Terrall, Alfred James, Jr., Baltimore
Offutt, Dorsey Worthington, Jr., Granite
Ohen, Mickey, Baltimore
O'Shea, John Albert, Baltimore
Owens, Paul Leo, Bayonne, N. J.
Panetti, Edwin Selby, Baltimore
Pariser, Henry, Baltimore
Pegrum, Francis Edward, Jr., Baltimore
Perkins, E. Francis, Baltimore
Phillips, Jesse Choate, Randallstown
Phipps, Elmer Earle, Baltimore
Pinerman, Eli Herbert, Baltimore
Pocock, Albert Edgar, Monkton
Poffenberger, Leonard Franklin, Hagerstown
Proctor, George Dale, Cardiff
Rades, Vincent Thomas, Baltimore
Rasin, Alexander Parks, Chestertown
Richards, Granville Pennington, Rising Sun
Rogers, Thomas Hardey, Buckeystown
Roman, Isadore, Baltimore
Rosenberg, Jennie, Baltimore
Rosenstein, Jesse Aaron, Baltimore
Rutledge, George Peabody, Baltimore
Sacks, Joseph, Baltimore
Saiontz, David Sidney, Baltimore
Sapero, Samuel Sylvan, Baltimore
Sapperstein, Rose, Baltimore
Scaggs, George Warren, Baltimore
Schloss, Irwin A., Baltimore
Shapiro, Morton, Baltimore
Shuman, Charles, Baltimore
Shutter, Charles Emery, Newport, Pa.
Siegel, Jeanette R., Baltimore
Silver, Harry, Baltimore
Simon, George, Baltimore
Sinn, John Freeman, Hagerstown
Sirkin, Sidney Harry, Baltimore
Skeen, Arnold Tinney, Baltimore
Smaikin, Harry Richard, Baltimore
Smith, Bernard Roddy, Baltimore
Smith, Frederick Clay, Jr., Baltimore
Smith, William Monroe, Jr., Baltimore
Sollod, Isadore Irvin, Baltimore
Solomon, Charles Leon, Baltimore
Staub, John Tegmeyer, Jr., Baltimore
Stine, Carroll J., Baltimore
Stone, Amelia Mildred, Baltimore
Sullivan, John Leicester C., Baltimore
Swartz, James Mano, Baltimore
Sweeney, John Murray, Baltimore
Swiskowski, Bernard Carol, Baltimore
Thomas, Edward McDowell, Baltimore
Thomas, Napoleon Woolford, Baltimore
Tietzer, Morris, Baltimore
Travers, William Willing, Nanticoke
Unger, Benjamin, Baltimore
Wachter, Samuel Sidney, Hagerstown
Waller, Max J., Baltimore
Watson, Kenneth Clayton, Catonsville
Watts, John Carroll, Jr., Baltimore
Weaver, Alva P., Jr., Baltimore
Weinstein, Henry Abraham, Baltimore
Wetzler, Allan Robert, Baltimore
Wilson, William Smith, Jr., Baltimore
Wise, Milton, Baltimore
Wolf, Edwin Jacob, Baltimore
Wright, Francis John, Manchester, Conn.
Zeligman, Aaron, Baltimore

IRREGULAR STUDENTS

Alexander, John Gunnels, Atlanta, Ga.
Bartholomay, William Peter, Baltimore
Bell, Vernal Woodcock, Baltimore
Bousman, Floyd Weston, Baltimore
Brown, C. Howard, Bladensburg
Deady, Frank Hale, Bladensburg
Dorsey, Philip Henry, Annapolis
Druery, Oliver Keys, Baltimore

Feinberg, Isidore Bernard, Baltimore
Foster, Reuben, Baltimore
Gould, Theodore, Baltimore
Greene, Melvin J., Baltimore
Hampson, George Mobray, Baltimore
Harrington, T. Barton, Baltimore
Jacobs, Benedict Weiner, Baltimore
Levinson, Saul R., Baltimore
Meiser, Fred William, Baltimore
Mihm, William Albert, Mt. Washington
Mooney, Lawrence Roger, Baltimore
Moss, Gersh Isaac, Baltimore
Muth, Gerald J., Catonsville
Parke, G. Arch, Baltimore
Patterson, Lyman, Baltimore
Powell, Thomas Reese, Mt. Washington
Rabuck, LeRoy Theodore, Coraopolis, Pa.
Scaggs, Howard Irwin, Baltimore
Schiffer, Rosa, Baltimore
Sellors, John, Baltimore
Siegrist, Louis, Jr., Baltimore
Silverman, Samuel Leon, Baltimore
Sinsky, William, Baltimore
Wellmore, Grace Lucretia, Baltimore

SCHOOL OF MEDICINE

SENIOR CLASS

Balcerzak, Stanley Paul, Pittsburgh, Pa.
Briglia, Nicholas Natale, Philadelphia, Pa.
Brown, Leo T., Washington, D. C.
Byerly, Marshall Paul, Lexington, N. C.
Cadle, William Rodman, Frederick Junction
Cardinale, Pasquale F., Newark, N. J.
Caso, Jose, Santurce, Porto Rico
Clahr, Abraham Albert, New York, N. Y.
Coe, John Marburg, Brandywine
Coonan, Thomas Joseph, Westminster
Cope, Arthur Alexander, Baltimore
Dodd, Benjamin Roscoe, Wake Forest, N. C.
Dodge, Era Francette, Southern Pines, N. C.
Draper, Leonidas McFerrin, Middleburg N. C.
Dreskin, Jacob Louis, East Orange, N. J.
Eastland, John Sheldon, Baltimore
Elgin, Lee Wm., Baltimore
Ellis, Francis A., Baltimore
Epstein, Harry Herman, Brooklyn, N. Y.
Everett, Franklin Redman, Millington
Fancher, Henry Wilson, Jr., Winsted, Conn.
Farber, Raphael, Wellesboro, Pa.
Fields, Abijah Clements, Ensley, Ala.
Fischman, Harold H., Newark, N. J.
Friedman, Bernard, New York, N. Y.
Fuchs, Abner M., New York, N. Y.
Gale, Louis Harry, Erie, Pa.
Gaston, William Bryan, Clarksburg, W. Va.
Gattens, Wilbur Elton, Cumberland
Glick, Samuel, Baltimore
Gurley, Hubert Taylor, High Point, N. C.
Hall, Cecil Maurice, Hinton, W. Va.
Hammond, Kent Cato, West Union, W. Va.
Herbert, Alpha Nathan, Oakhurst, N. J.
Hertz, Ben, New York, N. Y.
Hofler, Ralph Hayes, Gatesville, N. C.
Howell, James Gerald, Altoona, Pa.
Hulla, Jaroslav, Baltimore
Jacobs, Morris Albert, Baltimore
Keating, John Patrick, Sandy Hook, Conn.
Kimbrough, Joseph William, Jr., Raleigh, N. C.
Knotts, Wm. Kenneth, Sudlersville
Laus, Edward Raymond, New York, N. Y.
Leibensperger, Geo. Franklin, Kutztown, Pa.
Lennon, Wm. Carle, Manteo, N. C.
Linde, Arthur Samuel, Baltimore
London, Daniel, New York, N. Y.
Lowe, Claude Milton, Fawn Grove, Pa.
McAnally, Alfred Loomis, Madison, N. C.
Miller, Edgar Raymond, Stewartstown, Pa.
Minnefor, Charles, Newark, N. J.
Montani, Anthony Carman, Youngstown, Ohio
Nataro, Joseph, Newark, N. J.
Navarro, Vicente Aguirre, Cadiz, P. I.
Nelson, James Wharton, Baltimore
Nock, Randolph Maxwell, Stockton
Oshrin, Henry, Jersey City, N. J.
Pinsky, Myer Mordecai, Camden, N. J.
Plassnig, Edwin, Baltimore
Polizzotti, Joseph Louis, Paterson, N. J.
Pulaski, Leo Edward, Shenandoah, Va.
Rathsprecher, Isadore, Newark, N. J.
Reynolds, Knight, Keyser, W. Va.
Richmond, Lewis C., Jr., Inez, Ky.
Roberts, Bryan Nazer, Hillsboro, N. C.
Sarnoff, Jack, New York, N. Y.
Silverstein, Jacob Maurice, Millburn, N. J.
Simon, Joseph Ralph, East Pittsburgh, Pa.

Simpson, Henry Hardy, Altamahaw, N. C.
Sinton, William Allen, Newport News, Va.
Spelsberg, Walter William, Clarksburg, W. Va.
Sulman, Wm. Richard, Reading, Pa.
Tomainoli, Michael Francis, Hoboken, N. J.
Turner, Thomas B., Frederick
Vila-Morales, Jaime, Rio Piedras, Porto Rico
Visconti, Joseph Albert, Hoboken, N. J.
Ward, William Titus, Ryland, N. C.
Wassersweig, Martin Max, Reading, Pa.
Widmeyer, Robert Samuel, Martinsburg, W. Va.
Wiener, Joseph, Brooklyn, N. Y.
Wilson, Paul Russell, Wilson, W. Va.
Winstead, John Lindsay, Elm City, N. C.
Zimmerman, Charles Conrad, Cumberland

JUNIOR CLASS

Alford, Ralph Judson, East Durham, N. C.
Anker, Harry, Cleveland, Ohio
Askin, Aaron John, Baltimore
Ballard, Margaret Byrnside, Greenville, W. Va.
Beachley, Jack Henson, Hagerstown
Berry, Robert A., Americus, Ga.
Bronstein, Irving, Brooklyn, N. Y.
Blough, Homer C., Boswell, Pa.
Calvin, Warren Ellwood, Hagerstown
D'Angelo, Antonio Francesco, Providence, R. I.
DeVincentis, Henry, Orange, N. J.
DiPaula, Frank Rosario, Baltimore
Diamond, H. Elias, New York, N. Y.
Dyer, Newman Houghton, Webster Springs, W. Va.
Eanet, Paul, Baltimore
Edmonds, Charles William, Baltimore
Elliott, Julian Carr, Nelson, Va.
England, Welch, Bluefield, W. Va.
Fine, Morris Aaron, Baltimore
Finkelstein, Abe Harry, Brooklyn, N. Y.
Freedman, Herman, Freehold, N. J.
Freedman, Max, Newark, N. J.
Freuder, Arthur Nathan, Coney Island, N. Y.
Geraghty, Francis Joseph, Baltimore
Gerber, Isadore Earle, Baltimore
Gordon, Abel, Passaic, N. J.
Gorham, Herbert Jenkins, Tarboro, N. C.
Graham, John Wirt, Baltimore
Helfond, David Matthew, Brooklyn, N. Y.
Hendrix, Nevins Byford, Port Deposit
Hibbitts, John Thomas, Baltimore
Hyman, Colvin, Baltimore
Jensen, Jacob R., Aalbourg, Denmark
Johnson, Phil, Ronceverte, W. Va.
Jolson, Meyer Stanley, Baltimore
Knapp, Alphonse Joseph, Baltimore
Krosnoff, John Alexander, Cokeburg Pa.
Lavy, Louis Theodore, Baltimore
Leake, Everette Majjette, Rich Square, N. C.
Levin, H. Edmund, Baltimore
Levin, Joseph, Newark, N. J.
Levin, Isadore Leonard, Lorain, Ohio
Loftin, Wm. Frank English, Mt. Olive, N. C.
Lumpkin, Lloyd Uba, Baltimore
Lusby, Frank Farrier, Baltimore
Manginelli, Emanuel, New York, N. Y.
Merkel, Walter Clarence, Hamburg, Pa.
Miller, Harry G., New York, N. Y.
Misenheimer, Ed Alexander, Concord, N. C.
Moriconi, Albert F., Trenton, N. J.
Polsue, Wm. Clewell, Charleston, W. Va.
Rattenni, Arthur, Providence, R. I.
Rocco, Frank, Newark, N. J.
Rosenberg, Albert Abraham, Wilkinsburg, Pa.
Rosenfeld, Max Harry, Baltimore
Rothberg, Abraham S., New York, N. Y.
Sashin, David, New York, N. Y.
Sax, Benjamin J., Brooklyn, N. Y.
Scheuker, Paul, Baltimore
Schmukler, Jacob, Newark, N. J.
Schneider, David, Baltimore
Schuman, William, Baltimore
Schwartz, Ralph Alfred, Newark, N. J.
Scullion, Arthur Anthony, Grantwood, N. J.
Sherman, Elizabeth Bowman, Front Royal, Va.
Spano, Frank, West New York, N. J.
Tayloe, Gordon Bennett, Aulander, N. C.
Tayntor, Lewis Olds, Erie, Pa.
Teagarden, Ersie Van, Cameron, W. Va.
Teitelbaum, Maurice L., New York, N. Y.
Tobias, Herbert Ramsay, Hancock
Totterdale, William Grainger, Baltimore
Trubek, Max, Carlstadt, N. J.
Weinstein, Samuel, Freehold, N. J.
Weiss, Louis Leo, Brooklyn, N. Y.
Weseley, Louis Jerome, Brooklyn, N. Y.
Whicker, Guy Lorraine, Winston Salem, N. C.
Wolfe, Samuel Benjamin, Baltimore

SOPHOMORE CLASS

Adzima, Joseph Matthew, Bridgeport, Conn.
Aptaker, Albert Jack, Brooklyn, N. Y.
Armacost, Joshua Harper, Owings Mills
Bankhead, John Marion, Lowrys, S. C.
Barnett, Edwin Dwight, Santa Rosa, Cal.
Basil, George Chester, Annapolis
Belsky, Hyman, Mt. Vernon, N. Y.
Benesunes, Joseph George, Baltimore
Bialostosky, Julius, Brooklyn, N. Y.
Birnbaum, Joseph Osias, New York, N. Y.
Bloch, Adolph, Passaic, N. J.
Cadden, John Francis, Jr., Keyser, W. Va.
Carey, Thomas Nelson, Baltimore
Castronovo, Joseph, Providence, R. I.
Chase, William Wiley, Baltimore
Clemson, Earle Princeton, Baltimore
Cohen, Bernard Julius, Baltimore
Cohen, Morris Daniel, New Rochelle, N. Y.
Davis, Henry Vincent, Berlin
Donchi, Sol Marvin, Newark, N. J.
Eliason, Harold William, Rowlesburg, W. Va.
Feldman, Jacob, New York, N. Y.
Friedman, Meyer Henry, Trenton, N. J.
Gellar, Abraham, Brooklyn, N. Y.
Gill, Chas. Edward, Georgetown, Del.
Gillis, Francis Winfred, Baltimore
Ginsberg, Henry, Baltimore
Glass, Louis J., Baltimore
Glick, Bernard, Lyndhurst, N. J.
Goldberg, Isidore, Dunellen, N. J.
Goldstein, Milton Joseph, Brooklyn, N. Y.
Grossfeld, Michael Joseph, Baltimore
Heisley, Rowland S., Baltimore
Hewitt, Frank, Baltimore
Hummel, Lee Cottrell, Salem, N. J.
Jones, Ora Reed, Lore City, Ohio
Kahan, Philip J., New York, N. Y.
Karns, Clyde Filmore, Cumberland
Kaufman, Israel, Brooklyn, N. Y.
Klawans, Maurice Francis, Annapolis
Kutner, Charles, Camden, N. J.
Lassman, Samuel, New York, N. Y.
Lazow, Sol M., New York, N. Y.
Lenson, Byruth King, Baltimore
Leyko, Julius Joseph, Baltimore
Lilly, Goff Platt, Charleston, W. Va.
Matassa, Vincent Louis, Baltimore
Mattikow, Bernard, Brooklyn, N. Y.
Michel, George Charles, Baltimore
Moran, John Edward, Manchester, N. H.
Morris, Frank Kailer, Baltimore
Nussbaum, Samuel, Pine Hill, N. Y.
Peake, Clarence William, Aflex, Ky.
Phillips, John Roberts, Quantico
Reifschneider, Herbert E., Baltimore
Rich, Benjamin Sunderland, Catonsville
Roetling, Carl Paul, Baltimore
Ruiz, Emilio M., Arecibo, Porto Rico
Saffell, James Glenn, Reisterstown
Schnierer, Samuel Benjamin, Waterbury, Conn.
Schwedel, John Bernard, Baltimore
Slagle, Alexander Russell, Baltimore
Smith, Paul J., Altoona, Pa.
Sobkov, Samuel, Baltimore
Sparta, Anthony, Easton, Pa.
Stacy, Theodore Edwin, Jr., Blairsville, Pa.
Stonesifer, Charles Hiram, Westminster
Sussex, Max, Bayonne, N. J.
Swank, James Levy, Elk Lick, Pa.
Swartzwelder, Wallace Ray, Mercersburg, Pa.
Teague, Francis Bailey, Martinsville, Va.
Tenaglia, Eutimio Domenico, Providence, R. I.
Thompson, Thomas Payne, Forest Hill
Tollin, Louis, Newark, N. J.
Tumminello, Salvatore Anthony, Baltimore
Upton, Hiram Eugene, Burlington, Vt.
Voigt, Herman Albert, Baltimore
Von Schulz, Augustine Paul, Baltimore
Wack, Frederic Van D., Point Pleasant Beach, N. J.
Waesche, Frederick S., Sykesville
Whittington, Claude Thomas, Greensboro, N. C.
Williams, Palmer F. C., Baltimore
Wilner, Joseph Walter, New York, N. Y.
Wohlreich, Joseph Jacob, Newark, N. J.
Wollak, Theodore, Baltimore

FRESHMAN CLASS

Aiau, Chadwick Kanekoa, Honolulu, Hawaii
Albaugh, Guy Clinton, Mt. Wolf, Pa.
Baer, Adolph, Brooklyn, N. Y.
Bedri, Marcel Rechtman, Chel-Mosche, Tel-Avia, Palestine
Benson, Alvan Homer, Baltimore
Berger, William Adolph, Bloomfield, N. J.
Bernhard, Robert, New York, N. Y.
Blecherman, Irving Ezra, Brooklyn, N. Y.
Bonelli, Nicholas William, Lyndhurst, N. J.
Brager, Simon, Baltimore

Brocato, Charles Vincent, Baltimore
Brown, Nellie Madeleine, Dunmore, Pa.
Chor, Herman, Baltimore
Christian, William, Nanticoke, Pa.
Dailey, Cornelius Michael, Steelton, Pa.
DeBarbieri, Fred Louis, Galeton, Pa.
Duckwall, Frederick Mooman, Berkeley Springs, W. Va.
Engelke, Edmund Harrison, Eastport
Fedder, Eli, Baltimore
Fifer, Jesse Showalter, Wyoming, Del.
Friedman, Bernard, Brooklyn, N. Y.
Gaffney, Charles Bernard, New Britain, Conn.
Gaskins, Theodore Grady, Bridgeton, N. C.
Gelber, Jacob Saul, New York, N. Y.
Giocolano, Ralph Gabriel, New York, N. Y.
Goldberg, Victor, Baltimore
Goodman, Jerome Edward, Baltimore
Greenberg, Harry, Baltimore
Grollman, Aaron Isaac, Baltimore
Guiglia, Sascha Facchetti, New York, N. Y.
Gulck, Georg Krohn, Aalborg, Denmark
Gundry, Lewis Perkins, Relay
Hankin, Samuel J., Baltimore
Hayden, Benjamin Stephen, Jr., Baltimore
Herold, Lewis Jacob, New York, N. Y.
Johnson, Walter Brenaman, Baltimore
Jones, Henry Alvan, Baltimore
Kaminsky, Philip, New York, N. Y.
Kemp, Alexander Brown, Catonsville
Kohn, Theodore, Columbia, S. C.
Krolicki, Thaddeus Alphonsus, Bridgeport, Conn.
Lampert, Hyman, Brooklyn, N. Y.
Lamstein, Jacob Irving, Brooklyn, N. Y.
Laukaitis, Joseph George, Baltimore
Lazarus, Max, Newark, N. J.
Lerner, Morris, Brooklyn, N. Y.
Levinsky, Maurice, Bridgeport, Conn.
Levinson, Louis Jack, Brooklyn, N. Y.
Levy, Walter Howard, New York, N. Y.
Linbach, Earl Frederick, Massillon, Ohio
Little, Luther Emmanuel, Darlington
Littman, Irving I., Baltimore
Lyon, Isadore Bernard, Hagerstown
Mace, John, Jr., Cambridge
Maddi, Vincent Michael, New York, N. Y.
Maged, Abraham John, Suffern, N. Y.
Matsumura, Junichi, Wailuku, Maui, Hawaii
McCeney, Robert Sadler, Laurel
McFaul, William Neal, Jr., Baltimore
McGowan, Joseph Francis, McKees Rocks, Pa.
McKee, Albert Vincent, Philadelphia, Pa.
Meister, Aaron, Brooklyn, N. Y.
Merksamer, David, Brooklyn, N. Y.
Merlino, Frank Anthony, Hammonton, N. J.
Messina, Vincent Michael, Baltimore
Moore, Charles Mortimore, Chincoteague, Va.
Mostwill, Ralph, Jersey City, N. J.
Nagle, Carl Rotan, Baltimore
Neuman, Finley Frederick, Cleveland Heights, Ohio
Pass, Victor Earl, Baltimore
Pegues, William Leak, Kollock, S. C.
Piacentine, Pasquale Anthony, New York, N. Y.
Pileggi, Peter, Newark, N. J.
Postrel, Lewis Louis, New York, N. Y.
Rascoff, Henry, Brooklyn, N. Y.
Repasky, John, Robins, Ohio
Rosen, Marks Julius, Brooklyn, N. Y.
Ross, Arthur Isaac, Mt. Vernon, N. Y.
Rubinstein, Hyman Solomon, Baltimore
Rutter, Joseph Howard, Baltimore
Saffron, Morris Harold, Passaic, N. J.
Sardo, Samuel Philip, Johnstown, Pa.
Silver, Abraham Alfred, New Haven, Conn.
Singer, Jack Jerome, Baltimore
Smith, L., Brooklyn, N. Y.
Smoot, Aubrey Cannon, Denton
Smoot, Merrill Clayvelle, Denton
Stone, Jesse Edwin, Emmitsburg
Tannenbaum, Morris, New York, N. Y.
Taylor, Charles Vivian, Baltimore
Tenner, David, Baltimore
Tkach, Nathan Hersh, New York, N. Y.
Varney, William Henry, Baltimore
Vernaglia, Anthony Paul Joseph, New York, N. Y.
Vogel, S. Zachary, Brooklyn, N. Y.
Volenick, Leon Joseph, Brooklyn, N. Y.
Walter, Frank Pierce, Baltimore
Ward, Hugh Walter, Owings
Warner, Carroll Gardner, Baltimore
Weintraub, Fred Siegfried, Coraopolis, Pa.
Weisenfeld, Nathan, Hartford, Conn.
Weiss, Aaron, Brooklyn, N. Y.
White, Beulah May, Deal's Island
Wilkerson, Albert Russell, Baltimore
Wolf, Frederick Samuel, Baltimore
Woolley, Alice Stone, Baltimore
Wurzel, Milton, Newark, N. J.
Zimmerman, Frederick Thomas, Philadelphia, Pa.

SCHOOL OF NURSING

SENIOR CLASS

Appleton, Pauline Vera, Punxsutawney, Pa.
Brude, Lucy Alvey, Baltimore
Bennett, Alice Moore, Baltimore
Bennett, Pearl Phillips (Mrs.), Baltimore
Bell, Janet McIntosh, Waterbury, Conn.
Hughes, Claire Virginia (Mrs.), Baltimore
Headley, Sara Pierce, Village, Va.
Kraft, Dorothy Christine, Ellicott City
Sponsler, Mary Rebecca, Petersbury, Pa.
Tillinghast, Robina Haralson, Fayetteville, N. C.
Whitworth, Esther Ward, Elkton
Wertz, Gladys Alberta, Batesburg, S. C.

The above students received their diplomas at the June commencement. They were obliged to return to the hospital, however, to finish some practical work.

SENIOR CLASS

Barr. Alberta, Port Deposit
Barnsley, Martha F., Olney
Croll, Mildred M., Federalsburg
Cannon, Elizabeth Mary, Seaford, Del.
Coulter, Zelda Blanche, Newton, N. C.
Forrest, Louise, Gettysburg, Pa.
Fletcher, Grace Thelma, Winston Salem, N. C.
Frick, Esther E., Waynesboro, Pa.
Hathcock, Mary A., Norwood, N. C.
Kirtner, Mattie Moore, Radford, Va.
Mitchell, Gladys Eula, Manchester, Tenn.
Nock, Myrtle M., Pocomoke City
Rankin, Margaret Ann, Gatebo, Okla.
Scarborough, Annie L., Delta, Pa.
Scott, Mary Sterling, Stewartstown, Pa.
Shatzer, Myrtle Iva, Cumberland
Wall, Laura Anne, Nashville, N. C.
Walter, Charlotte Elizabeth, Westminster
Whiteley, Myrtle Estelle, Albermarle, N. C.

INTERMEDIATE CLASS

Allen, Naomi, Seaford, Del.
Bond, Mildred A., Ashton
Caples, Virginia Elizabeth, Baltimore
Coates, Marian Jeanette, Elkridge
Colbourne, Lillian Elizabeth, East New Market
Diehl, Sara Wentzel, Greensburg, Pa.
Eller, Maybelle R., Baltimore
Ewell, Mary Elizabeth, Cambridge
Fink, Margaret Virginia, Berwyn
Glover, Dorothy Rebekah, Hurlock
Hood, Dorothy, Baltimore
Hershey, Esther Elizabeth, Gap, Pa.
Hurlock, Edna Myrtle, Annapolis
Koogle, Imogean, Hagerstown
Mundy, Fannie Mae, Abbeville, S. C.
Parks, Colgate C., Cockeysville
Powel, Marian Elmer, Baltimore
Royster, Lucy, Henderson, N. C.
Sperber, Elsie V. M., Baltimore
Sperber, Theodora H., Baltimore
Scott, Elizabeth, Eckhart
Shoultz, Carol C., Anderson, Ind.

JUNIOR CLASS

Baldwin, Estella Coates, Elkridge
Ball, Andra Isabel, Beckley, W. Va.
Blackburn, Hazel Dorothy, Port Deposit
Bost, Stella Pearl, Newton, N. C.
Conway, Gladys, Cambridge
Crumm, Mary Matilda, Lisbon
Denny, Anna Mae, Centreville
Ely. Margaret Ellen, Sykesville
Foust, Eva Agnes, Dundalk
Gerber, Theressa Rhae, Hagerstown
Hall, Rebecca Jane, North East
Henderson, Jane Grace, Kansas City, Mo.
Hoffman, Celeste Elsie, Baltimore
Holloway, Ethel C., Hebron
Holt, Agnes Louise, Seaford, Del.
Jackson, Virginia Esther, Newark
Jarrell, Emma Elizabeth, Chestertown
Kerr, Ethel B., Baltimore
Kirk, Mary Jane, Big Cove Tannery, Pa.
Krouse, Beatrice Lutz, Frostburg
Price, Julia Louise, Marlinton, W. Va.
Ruckle, Margaret E., Baltimore
Sard, Esther Elizabeth, Secretary
Seiss, Theodosia M., Rocky Ridge
Shafer, Pearl Catherine, Saxton, Pa.
Smith, Nancy I., White Stone, Va.
Wallis, Louisa M., North East
Whitaker, Ora Clyde, Laurinburg, N. C.
Young, Grace Elizabeth, Taneytown

AFFILIATES

Banton, Bertha M., Madison Heights, Va.
Derby, Mildred A., Crisfield
Hoffman, Bertha, Lansing, Mich.
Hartman, Ella M., Westover
Howell, Elsa R., Salt Lake City, Utah
Hay, Margaret R., Connellsville, Pa.
Landon, Lillie S., Baltimore
Lewis, Minnie G., Kingston

PROBATION CLASS

Hoffman, Anne Evelyn, Woodsboro
Hough, Goldie I., Boyds
Keiser, Theresa Corona, Frederick
Kelly, Bettie Hawkins, Hanover
Leishear, Frances Mildred, Brookeville
Magruder, Martha Agnes, Baltimore
Myers, Hazel May, Owings Mills
Triplett, Katherine E. G., Martinsburg, W. Va.
Wagner, Grace Belle, Table Rock, Pa.

SCHOOL OF PHARMACY

THIRD-YEAR CLASS

Calmen, Elmon Herman, Baltimore
Slama, Frank James, Baltimore

SECOND-YEAR CLASS

Alessi, Silvio A., Baltimore
Austraw, Henry Harrison, Dundalk
Bare, Ray Spahr, New Cumberland, Pa.
Batie, Albert Lester, Cumberland
Bergner, Samuel William, Baltimore
Binkley, Leavitt Hildebrand, Hagerstown
Bongiorno, Henry, Passaic, N. J.
Cahn, Albert Myer, Baltimore
Caplan, Howard Hyman, Baltimore
Catlett, Ollie Edwin, Cumberland
Caudy, Newton Brooks, Weston, W. Va.
Cohen, Abraham Nathaniel, Baltimore
Cooper, Nathan Norman, Baltimore
David, Alphonse, Baltimore
Davidson, Meyer, Baltimore
Drukman, Herman Bernard, Baltimore
Ernst, Myrle Paul, Dundalk
Fisher, Delphia Franklin, Jr., Baltimore
Fisher, Michael Augustine, Swissvale, Pa.
Fivel, Harry, Baltimore
Foose, Wilbur Clifford, York, Pa.
Freed, Israel, Baltimore
Friedman, Nathan Joseph, Baltimore
Fuqua, Robert Seamon, Baltimore
Goldman, Abram, Baltimore
Goran, Isadore, Baltimore
Greenberg, Abram Morton, Baltimore
Hecker, David, Baltimore
Henderson, Upshur Kerr, Bridgetown, Va.
Hershner, John Franklin, Govans
Jeppi, Samuel Patrick, Baltimore
Kaminska, Janina Josephone, Baltimore
Kasten, Karl Henry, Baltimore
Katz, Herbert Alfred, Baltimore
Kermisch, Albert, Baltimore
Klein, Solomon, Baltimore
Kling, Herman M., Baltimore
Kramer, Samuel Edward, Baltimore
Kroopnick, Godfrey Daniel, Baltimore
LaRoe, Marian Frances, Baltimore
Leonard, Helen Arvilla, Baltimore
Leir, Ernest, Baltimore
Levinson, Henry, Baltimore
Levy, Edward Samuel, Baltimore
Levy, Morris Zachary, Baltimore
Lipsky, Irvin, Baltimore
McCall, George Benjamin, Baltimore
McComas, James Ross, Jr., Baltimore
McCormick, Arthur Felix, Baltimore
Mercer, Victor Grove, Frederick
Meyers, Louis Lear, Baltimore
Neumann, Joseph James, Overlea
Noveck, Nathan, Baltimore
Palmer, Mathias, Baltimore
Parker, Allan Ireland, Brentwood
Pelaez, B. Jose Monnel, Santiago, Cuba
Pickett, Benjamin Franklin, Baltimore
Price, Carroll Franklin, Baltimore
Raichlen, Samuel Israel, Baltimore
Rawe, Charles Edward, Baltimore
Sappi, Milton John, Woodlawn
Savage, Robert, Baltimore
Schochet, Paul, Port Deposit
Serpick, Jacob, Baltimore
Serra, Lawrence Mario, Brooklyn
Shapiro, Max, Baltimore
Shulman, Emanuel Veritus, Baltimore
Smulovitz, Isidore, Baltimore
Smulson, Milton Maurice, Hagerstown
Snyder, Nathan, Baltimore
Storch, Arthur, Baltimore
Swiskowski, Frank Leonard, Baltimore
Topchik, Irving, Garfield, N. J.
Fotz, Hammond, Northfork, W. Va.
Vogel, George William, Baltimore
Waterman, Henry Richard, Baltimore
Wickham, John James, Kingston, Ontario, Canada

FIRST-YEAR CLASS

Abramowitz, Robert Nathan, Baltimore
Adalman, Philip, Baltimore
Agnelli, Freeman B., New York City
Albrecht, William Francis, Baltimore
Bassin, Henry Albert, Baltimore
Bauer, John Conrad, Baltimore
Baylus, Meyer Milby, Baltimore
Beck, Jesse Philip, Smithsburg
Beither, Samuel Donald, Baltimore
Benick, Carroll Richard, Baltimore
Bercowitz, Bernard Joseph, Baltimore
Berger, William Samuel, Baltimore
Bernstein, Joseph, Baltimore
Blum, Joseph Sidney, Baltimore
Bradford, John Henry, Grafton, W. Va.
Budacz, Frank Milton, Baltimore
Budacz, Peter Thomas, Baltimore
Cardell, Jeremiah Curtin, Bristol, Vt.
Cermak, Bertha Margaret, Baltimore
Cermak, James Joseph, Jr., Baltimore
Chandler, William Willard, Cape Charles, Va.
Clayman, David Stanford, Baltimore
Coffin, Edward Roe, Henderson
Cohen, Archie Robert, Baltimore
Cohen, Irvin Joseph, Baltimore
Cohen, Max Hurston, Baltimore
Cohen, Saul Charles, Baltimore
Cooper, Morris, Baltimore
Crandall, Charles Robert, Annapolis
Cwalina, Benjamin Chester, Baltimore
Delcher, Charles Rodgers, Baltimore
Delson, Hyman, Baltimore
Diamond, Bernard Julian, Roanoke, Va.
Erberts, Joseph John, Baltimore
Etzler, Samuel Alin, Monrovia
Eybs, Earl Francis, Baltimore
Fant, Francis Edgar, Newberry, S. C.
Fitez, George Rolland, Hagerstown
Flescher, Julius, Baltimore
Gakenheimer, Albert Christian, Baltimore
Gaver, Herman Staley, Myersville
Ginsberg, Harry, Baltimore
Gleiman, Isidore Jacob, Baltimore
Gluck, Julius, Baltimore
Goldsteen, Samuel William, Baltimore
Goldstein, Isadore Alvin, Baltimore
Goodman, Julius Henry, Baltimore
Gordon, Jack Bernard, Baltimore
Gottdiener, Elvin Edward, Baltimore
Greenfeld, Charles, Baltimore
Grollman, Ellis, Baltimore
Haskell, Marian Louise, Lutherville
Haywood, John Harry, Baltimore
Heer, Wilmer Jacob, Baltimore
Herskowitz, Clara, Baltimore
Hoke, Edmund Floyd, Martinsburg, W. Va.
Horine, Randolph Alpheus, Westminster
Hurd, William Johnson, E. Dorset, Vt.
Itzoe, Andrew Jerome, New Freedom, Pa.
Jacobson, Samuel Maurice, Baltimore
Jarvis, Charles Ferguson, Centreville
Kabanovsky, Nathan, Baltimore
Kalkreuth, Clyde Norman, Dundalk
Karasik, William, Baltimore
Karcz, Edward Stanislaus, Baltimore
Kellough, Charles Irvin, Howardville
Keyser, Joseph, Baltimore
Kolman, Merwin Alfred, Baltimore
Kramer, Philip, Baltimore
Kraus, Louis Henry, Baltimore
Kurek, Anthony Thomas, Baltimore
Lesser, Abraham D., Baltimore
Levin, Joseph, Baltimore
Lewis, F. Harold, Baltimore
Doonan, Katharine, Washington, D. C.
Dorsey, Agatha, Midland
Lipsky, Harold, Baltimore
Lipsky, Joseph, Baltimore
Loeffler, Henry Michael, Baltimore
Lum, Max Robert, Boonsboro
McAllister, Benjamin, Jr., Cambridge
McGarry, Charles Edward, Baltimore
McGill, John L., Kings Mountain, N. C.
McGrady, Robert Joseph, Pennsboro, W. Va.
McLaughlin, Jack McDowell, Mercersburg, Pa.
Maczis, William Joseph, Baltimore
Maines, Thomas Joseph, West Brownville, Pa.
Margulies, Oscar, Baltimore
Martin, Thomas, Asbestos
Martz, Ernest William, Herndon, Va.
Maserowitz, Louis, Baltimore
Meagher, Harry Royce, Baltimore
Miller, Israel, Baltimore
Miller, Paul Long, Winchester, Va.
Millett, Joseph, Baltimore
Misler, Bernard, Baltimore
Moffitt, Otto Edward, New Kensington, Pa.
Moore, George Richard, Stratford, Conn.
Morgan, Alfred K., Baltimore
Moss, Williamson Wade, Jr., Baltimore
Muir, William Alexander, Baltimore
Noll, Violet Blickenstaff, Baltimore
Norman, Herman, Baltimore
Olsan, Frank, Baltimore
Piguett, Maude Blanche, Baltimore
Pugatsky, David, Baltimore

Racusin, Nathan, Baltimore
Ralston, Minter Bailey, Jr., Weston, W. Va.
Rosen, Harry, Baltimore
Rosenblatt, Sydney, Baltimore
Rosenfeld, Albert, Baltimore
Rosenstein, Aaron, Hampton, Va.
Sadowski, Charles Damascus, Baltimore
Salafia, Joseph George, Baltimore
Salfner, John Roscoe, Baltimore
Saslaw, Israel Solomon, Baltimore
Schildkraut, Nathan Nelson, Trenton, N. J.
Schmitz, Henry Dorsey, Annapolis
Schnabel, William Thomas, Baltimore
Schneider, Jack, Washington, D. C.
Schwartz, Harry, Baltimore
Sears, Joseph Everett, Stemmers Run
Shure, Bernard Gilbert, Baltimore
Sienkiewicz, Edmund Henry, Baltimore
Sklar, Isidore, Baltimore
Skup, David Alexander, Baltimore
Smith, Bernard Thomas, Frederick
Smith, Rudolph M. J., Annapolis
Snyder, Paul J., Boonsboro
Stambovsky, Louis, Point Pleasant, N. J.
Stine, Harry, Baltimore
Szczepkowski, Irene Ursula, Union City, Conn.
Taub, Samuel, Baltimore
Taylor, Thomas Leroy, Baltimore
Timmons, William P., Claiborne
Troy, Samuel, Baltimore
Webster, Samuel Earl, Cambridge
Wich, Carlton Edwin, Baltimore
Wilkerson, George Earl, Baltimore
Wolfe, Morris, Baltimore
Wood, Medford Clinton, Glen Rock, Pa.
Yarmack, Morris, Baltimore
Ziegler, John Haller, Baltimore

SPECIAL STUDENTS

Anderson, Walter A., Baltimore
Caldwell, Gerald E., Baltimore
Dunn, John Samuel, Salem, N. J.
Marx, Ernest Burleigh, Marshallton, Del.
Miller, Leo, Brooklyn, N. Y.
Price, Beatrice Catherine, Dundalk
Simpson, Thomas Howard, Hollidaysburg, Pa.

THE SUMMER SCHOOL—1924

Adkins, Chas. S., Newark
Ady, Edward B., Sharon
Aldenderfer, Bernice B., Circleville, O.
*Allen, Kenneth, Brandywine
Allen, Susie R., Cumberland
Ayers, Willard C., Cumberland
Bailey, Mary F., Berlin
Baker, William A., Mt. Airy
Baldwin, Virgie M., Savage
*Barber, Charles, Elkridge
Barber, Pauline R., Charlotte Hall
Barker, Margaret M., Riverdale
Barnhart, Emma J., Hagerstown
Barnsley, Lucy V., Rockville
Barton, J. Frank, Centreville
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Bloyer, Naomi C., Hagerstown
*Boender, John A., Laurel
°Bolin, A. Judson, Milton, Del.
*Bollinger, Peary R., Reisterstown
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Bowles, Agnes V., Baden
Boyle, Elizabeth G., Frederick
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Brantley, Margaret W., Brandywine
Bratten, Pearl M., Pocomoke City
Brice, Carrie J., Betterton
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Bray, Nona D., Hyattsville
Brower, Waltine E., Bridgewater, Va.
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Brown, Della S., Port Tobacco
Brown, Kathryn G., Hagerstown
Browning, Lola B., Cumberland
Buckey, Hattie M., Frederick
Burdette, Ola L., Damascus
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*Cherry, Joseph C., Berwyn
Chesser, Violet, Pocomoke
Childress, Marguerethe P., Cumberland
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Clendaniel, George W., Clarksville
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Coffin, Mamie C., Berlin
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Collins, Lurah D., Berlin
Collins, Mildred S., Preston
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*Hall, Harry, Purcellville, Va.
Hanger, Elizabeth, Cumberland
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*Jeffries, Mark P., Brandywine
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*Jones, John S., Pocomoke
*Jones, Paxton M., Kearneysville, W. Va.
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Kefauver, J. Orville, Mt. Savage
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*Myers, John A., Tom's Brook, Va.
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°Nickerson, Grace, Chestertown
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Nicht, Theresa B., Frostburg
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Nicol, Victorine G., Washington, D. C.
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*Ollerenshaw, James J., Washington, D. C.
Ornett, Edith M., Easton
*O'Rourke, James H., Lorton, Va.
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Parker, Mollie L., Salisbury
°Parker, Vera, Brentwood
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Parrott, Blanche, South River
Parsons, Mary E., Snow Hill
Partlow, Frances W., Easton
Patton, Gordon S., Jackson, Miss
Penman, Christene, Mt. Rainier
Pennington, Helen D., Easton
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Perdue, Dorothy, Salisbury
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Petherbridge, Annie C., Nutwell
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*Poole, Harry C., Beltsville
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*Pottor, Albert R., Trappe
Preinkert, Margaret M., Washington, D. C.
Price, Ida S., Centreville
*Price, Jacob J., Trappe
Price, Puliet Grover, Centreville
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Pryor, Commodore P., Smithsburg
Pugh, Edward L., Jr., Chevy Chase
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Stottlemyer, Geo. R., Myersville
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Struckman, Hannah M., Oldtown
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Tan, Joseph H., College Park
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Wathen, Edna L., Newport
Wathen, Mary D., Newport
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Watson, Kaleda A., Girdletree
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White, Marie E., Cumberland
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White, Melva I., Benning
White, Nannette, Kensington
White, Saranna, Emmitsburg
*Whiteford, Michael W., Whiteford
Whiteway, Eleanor, Washington, D. C.
Wickard, Harold C., Cumberland
Whitt, Marie B., Washington, D. C.
Wilcox, Genevieve L., Laurel
*Wiley, Benjamin H., Accident
Willey, Esther, Hobbs
Willis, Rebecca C., Hyattsville
Willison, Aileen, Cumberland
Willison, Hilda, Cumberland
*Wilson, Aseal S., Phoenix
°Wilson, Ida Belle, Pocomoke
Wilson, Josephine E., Hughesville
Wilson, Marguerite A., Cumberland
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Winders, Eva M., Hagerstown
Wise, Daisy R., Berlin
*Woodward, Amos R., Woodbine
Wolfe, Elmer A., Union Bridge
Wolfinger, Mary L., Hagerstown
*Worthington, Leland G., Berwyn
Wyand, Abbie V., Sharpsburg
*Yewell, Henry, Jr., Glenburnie
Youngblood, Rubie W., Augusta, Ga.
Zentz, Dorothy, Thurmont

°Graduate Students in Summer School.

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Bolstler, Eugene, Baltimore
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Chu, Pung-Ying, Hankow, China
Coney, Edgar H., Baltimore
Craig, Harold E., Garrett, Pa.
Darsch, Granville M., Baltimore
Dufty, Lewis Edward, Baltimore
Greager, Oswald A., Baltimore
Gwynne, William R., Baltimore
Harlan, James C., Baltimore
Holmslykke, Christian, Baltimore
Huang, Tse Suh, Baltimore
Layman, Homer C., Baltimore
McKewen, John L., Hamilton
Robinson, R. C., Toddville
Samper, Santiago, Baltimore
Slaughter, Leo McGoldrick, Longwoods
Smith, Arthur, Annapolis
Styrlander, Erik G., Baltimore
Weisman, Benjamin, Baltimore
Whitehurst, Francis DeP., Baltimore

UNCLASSIFIED STUDENTS

Altkrug, A. A., Baltimore
Benedict, Margaret E., Baltimore
Bowers, Martin H., Jr., Baltimore
Brennan, Peter J., Baltimore
Bull, Hilda, Baltimore
Carmichael, P. A., Baltimore
Dawson, Charles Ralph, Baltimore
Fedder, Eli, Baltimore
Filbey, Edgar J., Baltimore
Florit, Carmen, Baltimore
Frank, Pearl, Baltimore
Hackerman, Harriet C., Baltimore
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Staiman, Jacob, Baltimore
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SUMMARY OF STUDENT ENROLLMENT AS OF MARCH 1, 1925

College of Agriculture	266
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