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1931-32

OFFICE OF ALUMNI
AND UNIVERSITY RELATIONS
ALUMNI HALL
UNIVERSITY OF DELAWARE
NEWARK, DE 19716-7101

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1931 – 1932

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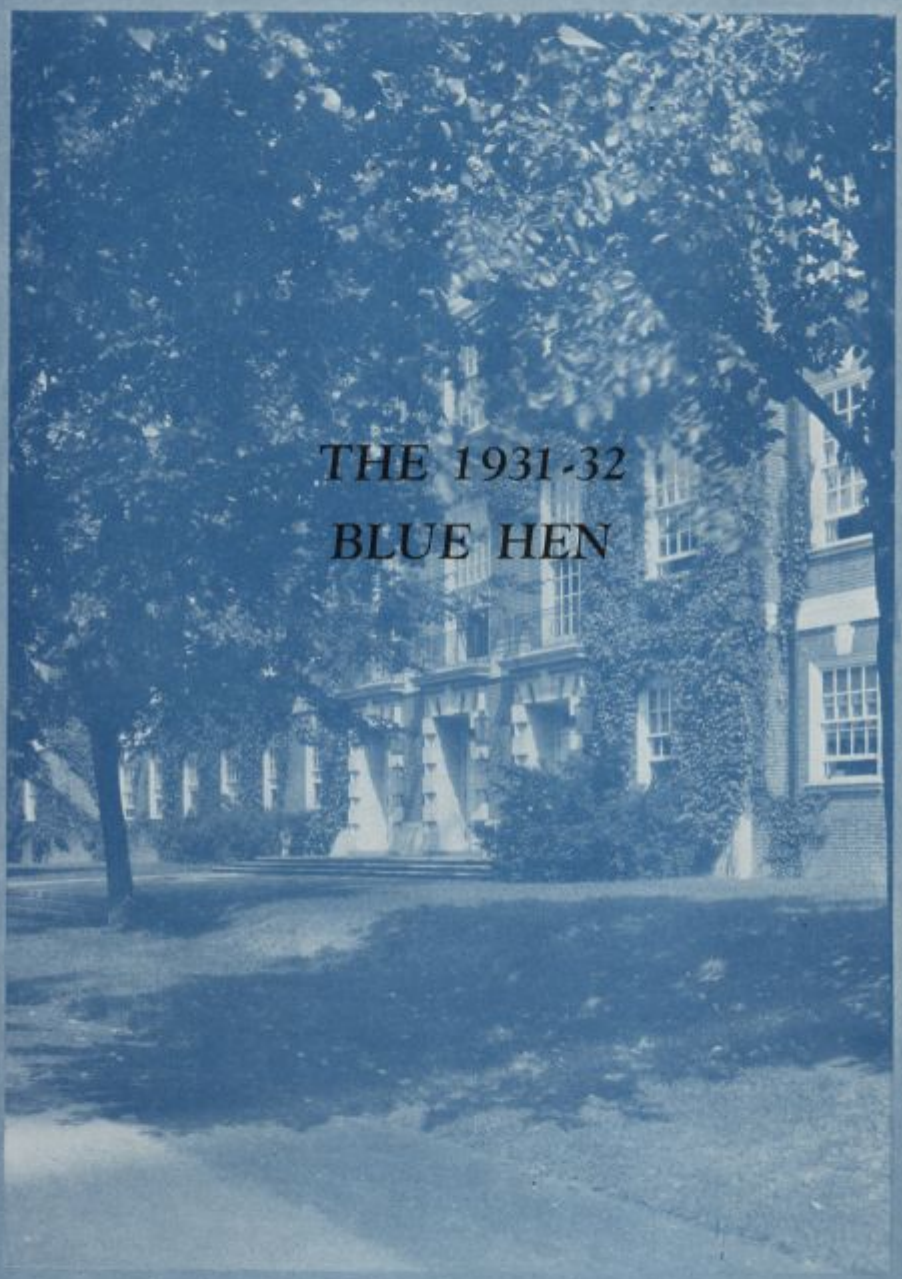

THE 1931-32 BLUE HEN

Blue Hen

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Editor-in-Chief

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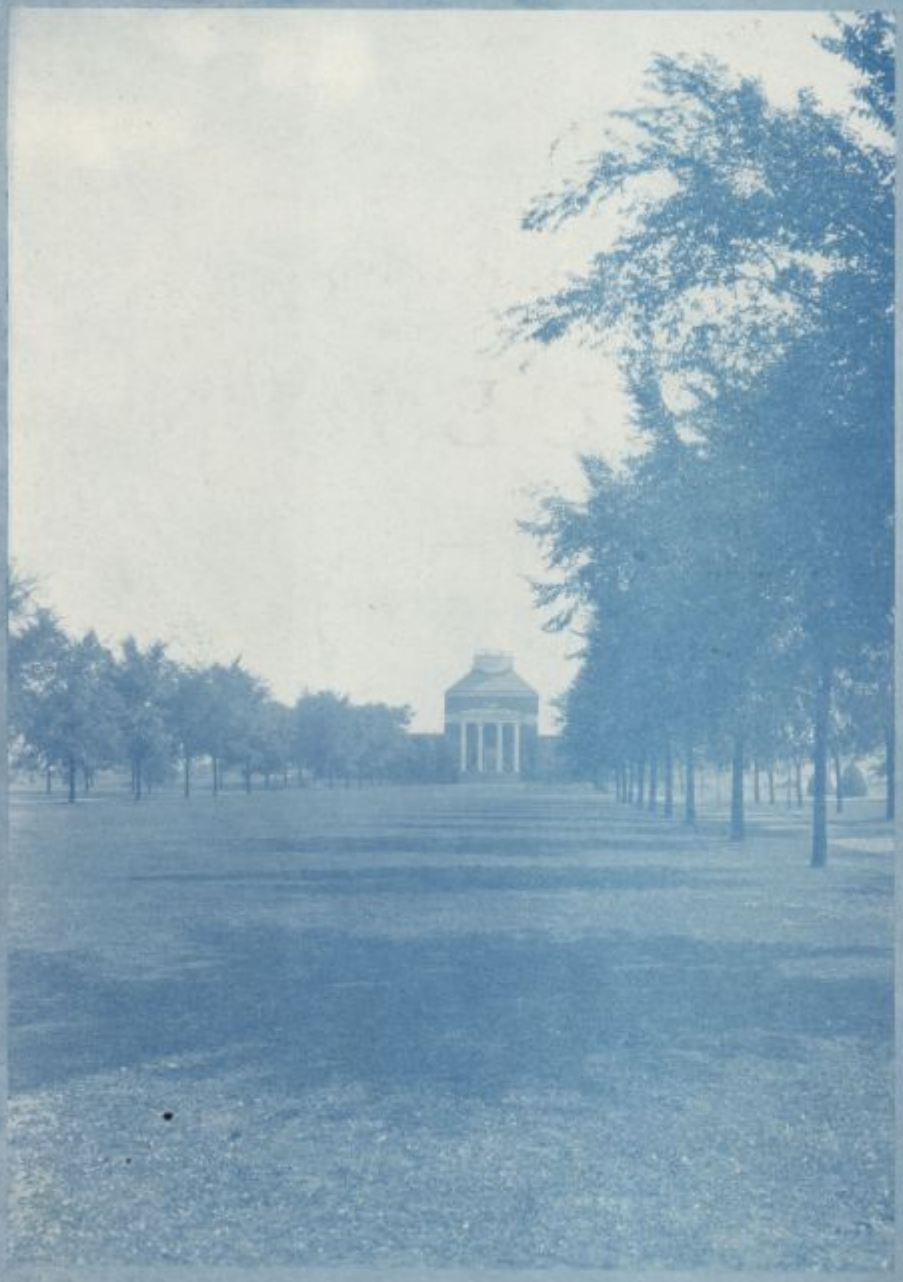
Business Manager



The 1931-1932

BLUE HEN

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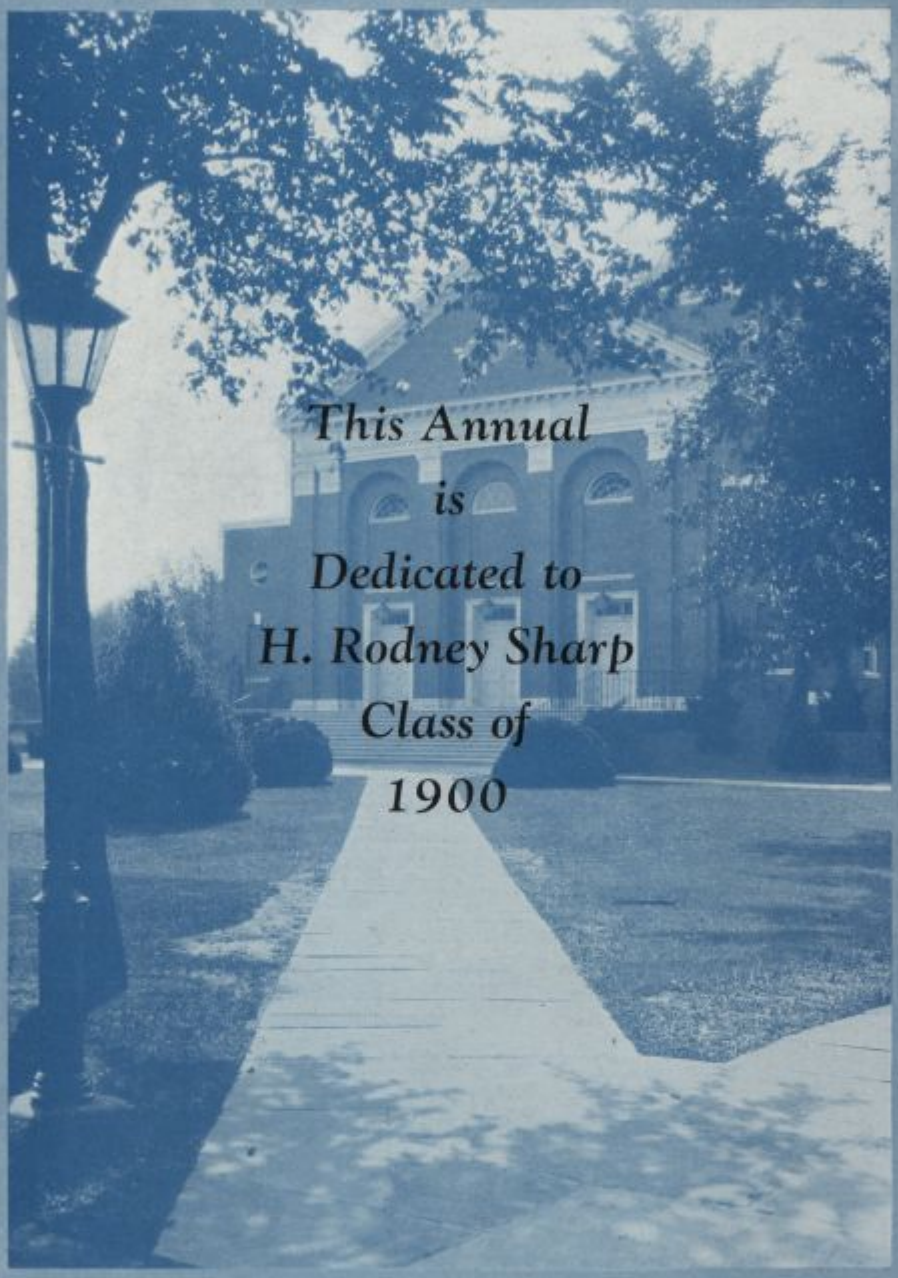
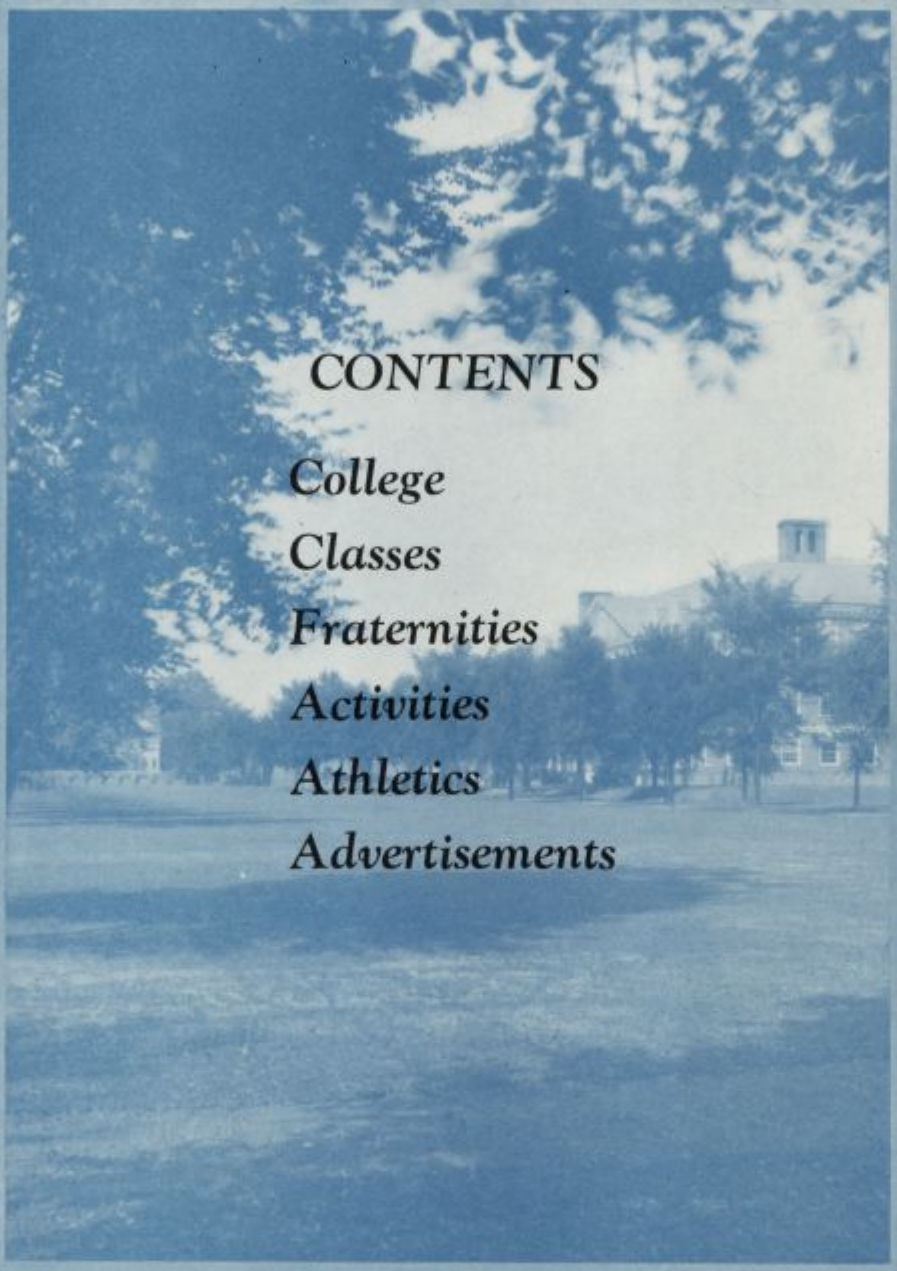


This Annual
is
Dedicated to
H. Rodney Sharp
Class of
1900

FOREWORD

In future years let him who reads
This record of our former deeds
In campus, forum, and in field
To dreams of reminiscence yield;
See once again your friends of yore
Through recollection's magic door,
When distant years enchantment lends
To memories of life-long friends.

E. F. S.—'34



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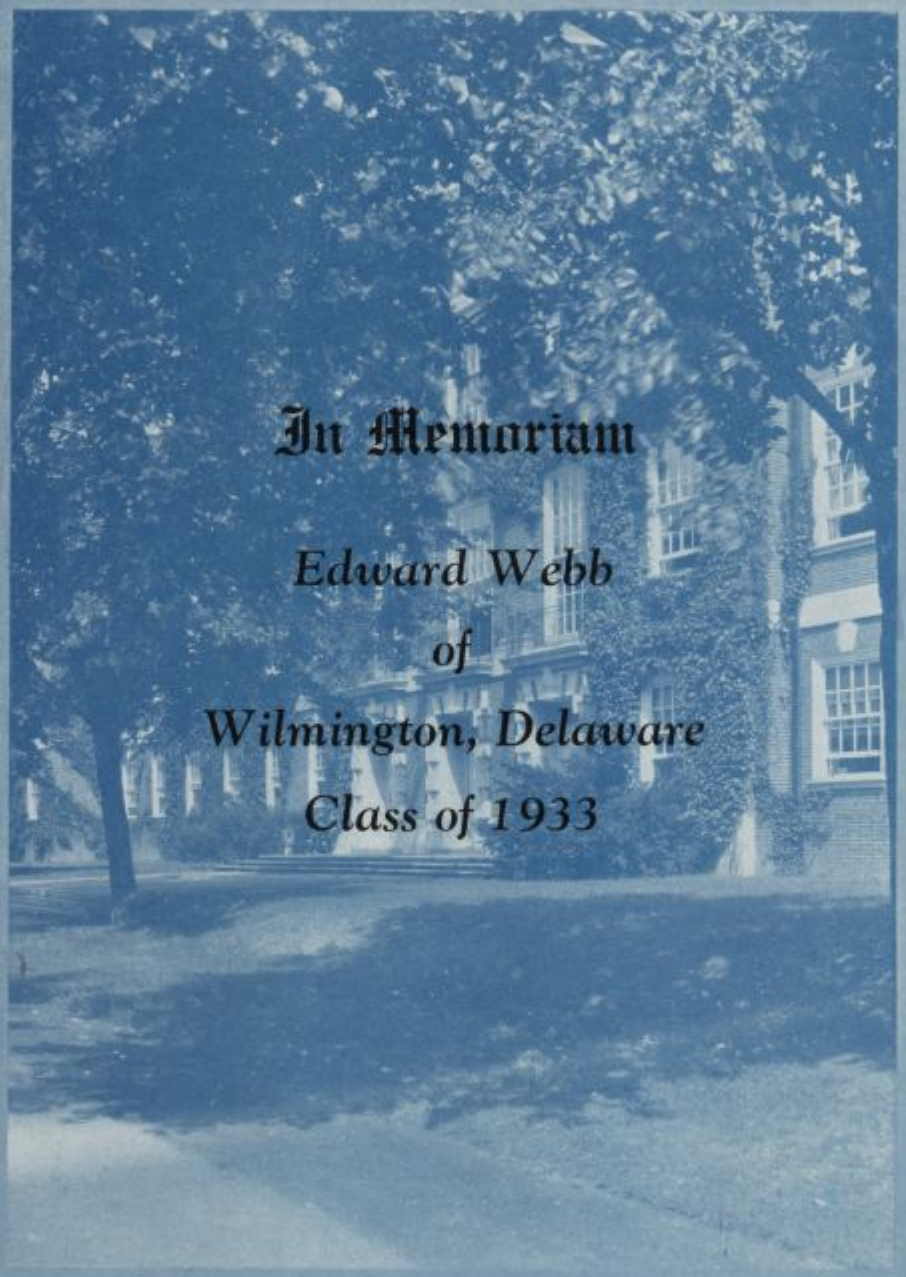


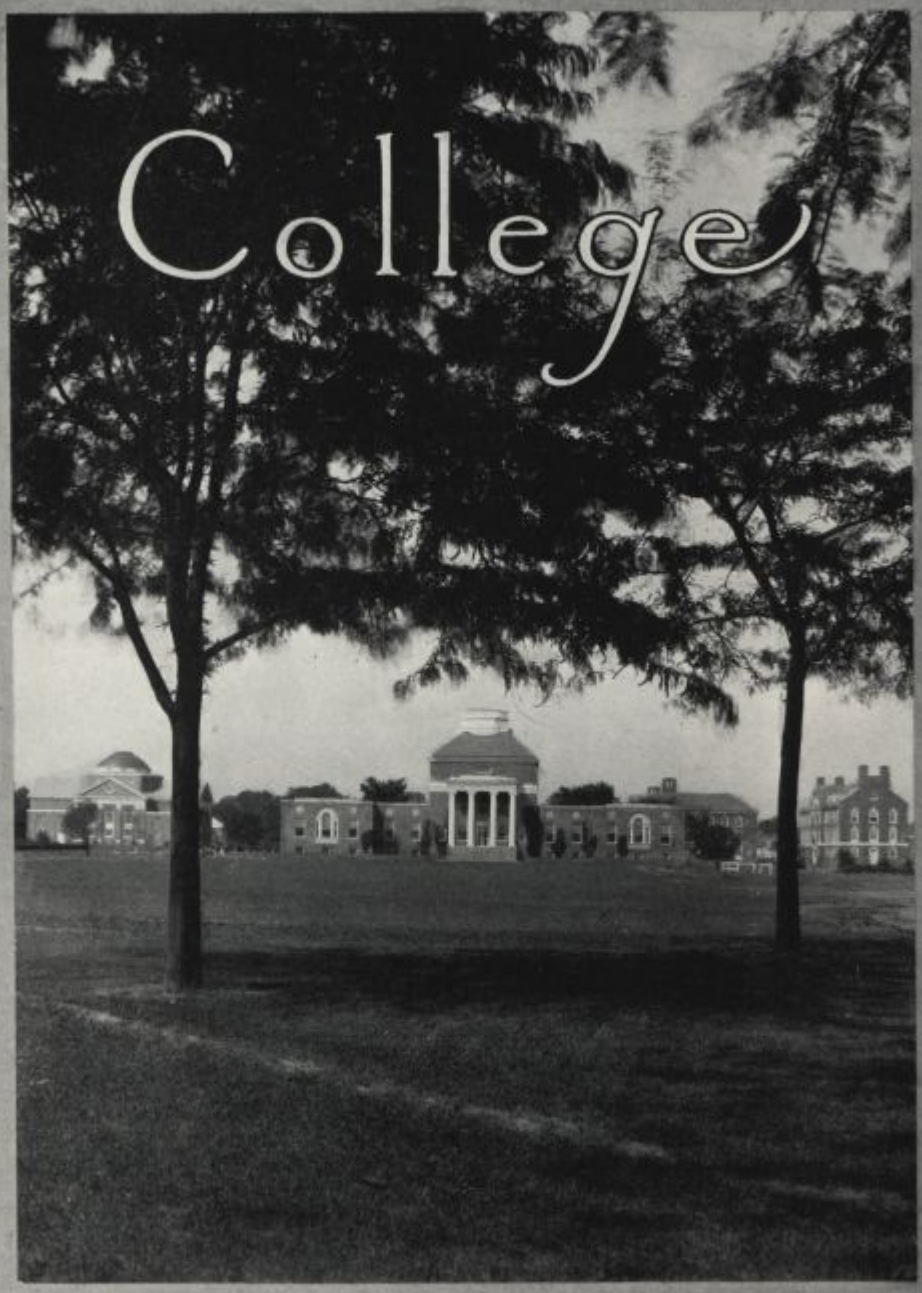
In Memoriam

Edward Webb

of

Wilmington, Delaware

Class of 1933


College

WHAT WE SEEK IN A COLLEGE EDUCATION

In a talk to the graduating classes last year, President Hullihen, employing the form of Kipling's "If," discussed the larger objectives of a college education. Excerpts from the President's remarks are quoted below. They seem to the Editors of the Annual to afford an interesting standard for college men of all classes, from Freshmen to Seniors, to hold before their minds when they are struggling with the oft-recurring question, "What, besides the diploma, should one aim to get out of the four years spent in College?" . . . .

"If you have gained enough of *information,* in the various fields of knowledge you have touched, to form the basis of reasoned judgments;

If you have found, through the discipline of intense application, the *power* to set yourself to any problem and *think* it through;

If you have discovered, in what you have studied here, some of the *standards* by which to differentiate that which is true from that which is false;

If you have noted, in your study of past and present, the shock of clashing wills and the struggle of elemental forces in human history and *formed your own opinions* as to their significance and the lessons they teach;

If you have seen *beauty and truth* revealed alike in the cold facts of science and in the poet's line;

If you have learned, as another has said, to weigh material goods in *the scales of personal values,* to esteem wealth chiefly for the service it can render, and to desire power only for the help it can give;

If you have given yourself in *generous friendships* and learned the graciousness of *courtesy* through contacts with those about you;

If you have discovered these in your college course, you have found the road that leads toward success, and entered the highway to the abundant life."

WALTER HULLIHEN, *President.*

THE BUSINESS ADMINISTRATOR'S OFFICE

Time speeds on apace and with it our graduates are starting out into the world of Professional and Business life. It seems only yesterday that we enrolled those who are graduating this year. Four years seems a long time to look forward but only a brief space of time to look back upon.

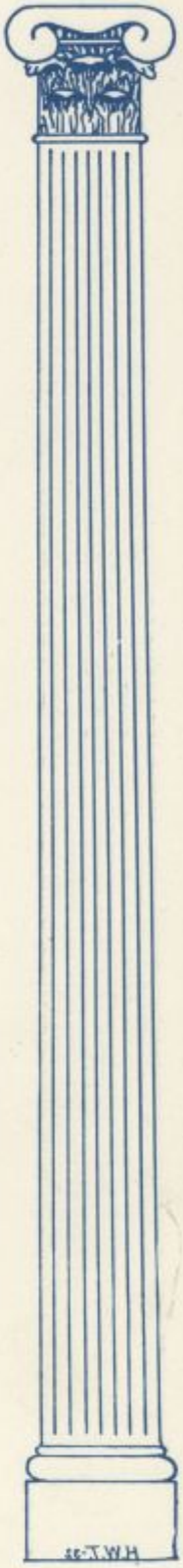
I want to extend my heartiest best wishes to the graduating class, to thank them for their co-operation and to assure them that while they are stepping out from the regular daily contact with the University, their Alma Mater will expect from them their continued interest and co-operation, believing that the future growth and extension of the University depends greatly on its alumni.

The University has grown in numbers, and the value of the physical plant has been increased during the four years of your college life, but I feel that a University shows its strength and greatness not alone in its standards of education and value of its plant, but in the standing in the community and the business and professional life of its graduates.

President Roosevelt once said, "The greatest honor that any man can covet is to have the opportunity coupled with the capacity to do some work, the doing of which is of vital importance to mankind."

Thus may Delaware be proud of this graduating class.

A. G. WILKINSON
Business Administrator.



THE SCHOOL OF ARTS AND SCIENCE

The Arts and Science School recognizes as its fundamental aims the following: (1) to give instruction in those subjects which are fundamental in any liberal education; (2) to discover and stimulate the special aptitudes and interests of students; (3) to lay the foundation for later professional specialization; and (4) to give the technical instruction necessary in preparation for certain occupational careers. To this end, the School offers instruction, through suggested curricula, in the fields of (1) Literature, (2) History and Social Sciences, (3) Philosophy, Psychology, and Education, and (4) Mathematics and Science.

Other aims and purposes of the Arts and Science School are more general. It is interested only in the serious student—the young man who has a serious purpose in coming to college and is willing to pay the price of an education in hard work and decent conduct. It cannot and will not waste its resources on young men whose main object in coming to college is to gain social prestige or to escape for at least four years from the necessity of earning a living. It endeavors to acquaint the student with the best that has been thought and said and done in the world, and thereby better to equip him to take his place as a useful and happy member of society. Finally, by placing before the student problems that require for their solution the orderly exercise of his mental processes, it seeks to train him to think logically and independently.

To fit earnest students to earn a better living and to lead a better life, to give them a real sense of responsibility, to train them to think for themselves, to make of them more useful and happier citizens—these are the aims and purposes of the Arts and Science School of Delaware College of the University of Delaware.

GEORGE E. DUTTON
Dean.

The Department of English

The English Department is one of several departments in the University which have charge of the work in the two colleges, Delaware College and the Women's College. This arrangement is especially advantageous for the Women's College, inasmuch as the students of this college come under the influence of a much larger number of teachers than would be possible if there were two separate departments of instruction, one for each college.

One new elective course in English has been offered this year—Seventeenth Century Poetry and Prose. Without enlarging its staff the Department is endeavoring gradually to organize its work so that the main fields or phases of English literature may be covered. In the Freshman and Sophomore courses in English, especially, an effort has been made to have more informal conferences with students.

An outstanding feature of our activities this year has been the production of plays under the direction of Professor Kase in the course labeled English 51 and 52. Two worth-while plays have been given, an advance in the organization of the work in play production has been made, and encouraging support from the play-going public has been received. The progress that has been made would not have been possible without the admirable facilities of Mitchell Hall.

W. O. SYPHERD
Head of Department.

The Department of History and Political Science

The two fields of History and Political Science have become so broad in scope during the past few years that in many colleges they have become differentiated to such a degree that teachers are more and more being trained to give courses in either one or the other but not in both. Without slackening its interest in offering as good and as many courses in history as is possible, an expansion in the field of political science has been deemed desirable for some time, and it is to be hoped that in the not too far distant future, courses in International Law, Constitutional Law, Political Theory, Comparative Government, and Political Institutions will be offered. This will of necessity mean the addition of another person on the Staff of the department, who has had considerable graduate school training in political science.

During the past year, the department has added two new courses in history for both colleges, one called History of Canada and the other, Modern History of the Far East and the Pacific Islands. Also, the one hour course in the History and Government of Delaware (H 3) has been introduced in the Women's College.

GEORGE H. RYDEN
Head of Department.

The Department of Philosophy

As its name indicates, this Department is interested in a number of problems, and at least should touch the life of the day at many points. Psychology describes the function of the mind, Philosophy analyzes its product and thought, while Sociology points the way to its use in the practical institutions of man. It is the purpose of this Department to furnish an opportunity for acquiring a mastery of fundamental facts and principles of these related subjects. It is only possible to make a good beginning in the study of the advanced phases of these three great fields of scholarship under the present organization of the Department. However, it is now possible for the first time to arrange a Major in these subjects and to prepare interested students for graduate study in them. But perhaps our major contribution in the life of the University is to furnish an opportunity to students of inquiring minds for a polite knowledge of fields which no cultured man ignores.

EZRA B. CROOKS
Head of Department.

The Department of Economics

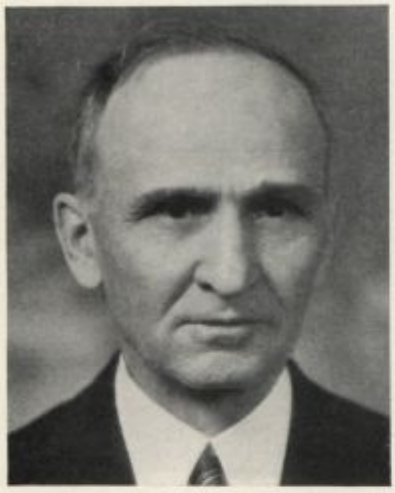
It is the aim of the Department of Economics to serve two types of students. For those whose major interest lies in other departments it provides a general course, the purpose of which is to prepare them to cope intelligently and constructively with the numerous complex problems of our economic life. However, for those students who definitely intend to enter some phase of business, it offers a number of more specialized courses in addition to the above, which particularly stress the practical application of business fundamentals.

During the past year a new course, Insurance, has been added as a result of special petition from members of the Junior and Senior classes. It is designed as a general course covering the more important features of the major types of personal and property insurance, aiming to develop an appreciation of their place in business and personal affairs.

It is the intent of this department to meet, as adequately as its limited facilities will permit, the needs of the students majoring in it.

J. SIDNEY GOULD
Head of Department.

The Department of Education



THE Department of Education seeks to fulfill a two-fold function. It aims, in the first place, to prepare college men for more effective lay leadership in all matters pertaining to public education. Both in its importance to society and its magnitude as a corporate business enterprise, organized education needs the services of an informed public-spirited laity. Consequently, the college man who has studied its aims and purposes, its program and its problems, is in a position to render wise counsel and leadership.

For those men who elect to enter the teaching profession, the Department aims to provide opportunity for the technical preparation necessary for such a career. Through scientific research and investigation, teaching is becoming more and more professionalized, and, like other professional fields, only those may hope to enter it who have had the necessary pre-service technical training.

W. A. WILKINSON
Head of Department.

The Department of Modern Languages

HITHERTO the function of the Modern Language Department at Delaware College has been chiefly restricted to the needs of the pre-professional students, who have sought a reading knowledge of the foreign language most likely to be used in their later career. We are slowly enlarging our purpose so as to provide in addition for the students who wish to concentrate in modern languages with the intention subsequently either of teaching or of undertaking graduate work in linguistics or literature. The contemplated strengthening of the present Departmental Staff, permitting us to offer more advanced courses; recent very substantial additions to the Modern Language Library, which have been made possible by the gifts of friends interested in our equipment; and the advantages, cultural and professional, of the Junior Year Abroad indicate that majoring in the field of modern foreign languages is an opportunity which will soon be open to the students of Delaware College.

E. C. BYAM
Head of Department.

The Department of Ancient Languages

THE Department of Ancient Languages aims to maintain the high standard of culture which has always been associated with their study. It emphasizes the importance of intellectual training in a liberal education. It emphasizes the value of linguistic training in the advancement of civilization. It emphasizes the part the ancient languages have played in the development of the modern, especially English. It shows how all European literatures have been permeated by the influence of the classical literatures. The careful student of the classics is able to detect the muddled English of the student who lacks this training—his carelessness in pronunciation, especially of technical terms; his carelessness in spelling and the use of synonyms; his ignorance of the true inner meaning of many words in all branches of science.

All public speakers need linguistic training, for words are their tools. All educated people should be prepared to express their thoughts in words. A lawyer without Latin and a clergyman without Greek are equally handicapped.

It is possible for a student of this university to take four years of Latin and four years of Greek. While it is possible for a student to take Latin here with only two years of preparation, I would strongly urge every one to have at least three years of preparation.

ELISHA CONOVER
Head of Department.

The Department of Physics

THE aims of the Department are to interest, and impart to the student the laws of the fundamental phenomena of nature; to instill in him a desire to know the truth about the things around him; and to permit him to investigate for himself certain of these fundamental laws by performing exercises in the laboratory. There is no doubt that by this method the student develops a keener interest in the subject and becomes more eager to know how things happen.

Physics is designed to teach the student to think straight and give thoughtful consideration to practical and everyday problems, and not merely to obtain a result by substituting in a formula.

It is hoped that in the near future we might be able to arouse a general interest in the subject, so that some students may see its beauty and application and decide to pursue it to the end rather than just take courses in Physics because they are prerequisite for following courses.

J. F. DAUGHERTY
Head of Department.

THE SCHOOL OF AGRICULTURE

THE School of Agriculture is divided into three Divisions; Resident Teaching, Research, and Extension.

The number of students in residence most likely will never be large, owing to the size of the State. It is the aim of the Department, however, to give quality instruction in Agriculture in so far as its facilities will allow. The aim of the Department is to turn out leaders in agricultural thought rather than masters of the art. The fundamental principles of science underlying the art of Agriculture are particularly emphasized.

The Research Division, commonly known as the Experiment Station, is occupied with researches into the fundamental principles underlying the practices of Agriculture and the relationships between Agriculture and economic thoughts which govern the course of world affairs. The researches might roughly be divided into two classes; those which deal with fundamental principles and those which deal with the application of these principles in the field of Agriculture.

The Division of Extension has to do with the extension of knowledge of the principles and arts of Agriculture to the rural home, the farm, and its business relationships. The Department has representatives in each of the counties in the State who deal with rural men, women, and children, recognizing the farm and the farm home as a unit. The Extension Division has become a potent factor in the rural life of Delaware.

C. A. McCUE
Dean.

The Department of Chemistry

THIS department gives the elective and required courses in chemical subjects needed for all the curricula of Delaware College, but its chief concern is with the students who are taking the Chemical Engineering or the Arts and Science chemistry curricula. These men are offered the opportunity to acquire a four-year training which will enable them to make a start in the chemical industry, or to begin graduate work in one of the larger universities in preparation for a teaching or research career.

The region between New York and Baltimore is probably the most important chemical manufacturing center in the world. Our location within this area gives us certain advantages which are lacking in many other states. It is proper and desirable for the University of Delaware to have a strong and well equipped department in order to serve those students who wish to enter the field of chemical work.

Those men who are qualified to take graduate work after completing a four-year curriculum will find it advantageous to do so. The more important positions in industry, as well as in research, go to the well trained men, and no student of the right type will neglect any tool within his reach which will contribute to success in his profession.

A. S. EASTMAN
Head of Department.

The Department of Agricultural Education

THE Department of Agricultural Education offers courses designed particularly for those preparing themselves to become teachers. This department was established following the passage of the Smith-Hughes Act of Congress in 1917, creating a demand for specially trained teachers of agriculture and related subjects in high schools and vocational schools.

The curriculum is broad in scope, requiring students to elect fundamental courses in the various departments. In addition to training in technical agriculture, they take general courses in education and special courses in methods of teaching vocational agriculture. Seniors in Agricultural Education spend considerable time during their last semester teaching in the Newark High School, where vocational agriculture is offered. Here they receive valuable practice before taking up work in school positions of their own.

Approximately eighty-five per cent of the agricultural students elect work in this department, not only in anticipation of service in the vocational teaching field, but also in preparation for educational, administrative, and supervisory positions. Throughout the course emphasis is placed on preparation for rural leadership.

R. W. HEIM
Head of Department.

The Department of Biology

In discussing the future of the Department of Biology of the University of Delaware it will probably be better for us to express our hopes for the future rather than to make a prophecy as to what will really take place; for the needs of the University are many and the funds for its maintenance rather limited, especially in comparison with those of many other State Universities.

We hope to eventually have a larger corps of instructors and a building devoted entirely to biological work, or possibly to share one with the Department of Physics or with the Department of Bacteriology—a building where we will have roomy quarters with plenty of light and both northern and southern exposures. Both are needed for satisfactory biological work.

The logical outcome of this program would be added interest in biological work, greater zeal in collecting material for our museums, and, finally, the publication of papers upon our flora and fauna. In work of this nature the State of Delaware is sadly lacking, and it is sincerely to be hoped that definite work along these lines may soon be undertaken here at the University.

C. O. HOUGHTON
Head of Department.

The Department of Agronomy

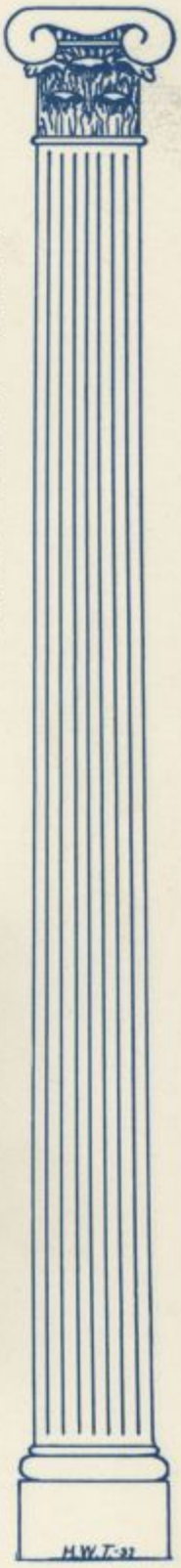
The Department of Agronomy has enjoyed a steady growth since it was organized in 1907 with one Professor in charge. At the present time it consists of one Professor, Assistant Professor, and Assistant Research Agronomist.

The first laboratories of the Department were located in Old College, in a part of what is now the Faculty Club. In 1916 they were moved to Wolf Hall. In this building the Department has two office rooms, a farm crops laboratory, a soil laboratory for students, and a research laboratory.

Research in Agronomy cannot be successfully conducted without field plots. Consequently in 1908, when the Experimental Farm was purchased, twenty-five acres were taken over by the Agronomy Department for the testing of varieties of farm crops, fertilizers, lime, etc. Prior to this a small amount of work had been conducted where Frazer Field is now located. The Department has enlarged its research activities and at the present time it has experimental plots at Milford and Coolspring.

Courses of instruction are offered in Farm Crops, Plant Breeding, Soil Management, Soil Improvement, and Farm Management.

GEO. L. SCHUSTER
Head of Department.



The Department of Animal Industry

The organization of the Department of Animal Industry is patterned somewhat after that of the Bureau of Animal Industry of the United States Department of Agriculture. Similar organizations may be found in a number of the Agricultural Colleges of State Universities. The Department is charged with the teaching of all courses of study appertaining to livestock production, together with certain basic biological sciences, including physiology, bacteriology, and hygiene; and the investigation of problems arising within these fields.

The personnel of the Department consist of a number of specialists whose offices and laboratories are located upon the first floor of Wolf Hall. The experimental animals consisting of a herd of pure-bred Holstein-Friesian cattle, a swine herd consisting of several breeds of swine and a modern poultry plant are located at the University farm and cared for by skilled herdsmen. Some of the members of the Department devote their entire time to research, being members of the Delaware Agricultural Experiment Station staff, and are therefore not well-known to the student body.

The duties of the Head of the Department are diversified, consisting of the teaching of courses in bacteriology, physiology, hygiene and animal industry, and the investigation of problems in animal hygiene.

C. C. PALMER
Head of Department.

The Department of Plant Pathology

The Department of Plant Pathology and Soil Bacteriology as a department of the College and University was organized in 1912 with Dr. T. F. Manns as chief. The department owes its existence to the urgent demands of fruit growers and others for more intimate knowledge pertaining to the nature and control of plant diseases; the dual feature of soil bacteriology was added to cover research on the part played by micro-organisms in maintaining soil fertility.

The work of the department at present, aside from offering courses in plant pathology and soil bacteriology (undergraduate and graduate), is concerned chiefly with research and extension projects in plant diseases and soil micro-organisms. During the past twenty-five years, these projects involved work on the diseases and their control of sweet potato, apple, peach, grape, cantaloupe, watermelon, tomato, peas, beans, soybeans, corn, wheat, dewberry, strawberry, sweet pea, carnation, and many minor crops. The work also involved investigations on various spray and dusting materials and many disinfectants.

T. F. MANNS
Head of Department.

THE SCHOOL OF ENGINEERING

HOUSED in a modern building, of modern arrangement and with modern equipment, the School of Engineering is training young men to practice the profession of Engineering in the fundamental branches, Chemical, Civil, Electrical, and Mechanical Engineering.

Throughout his undergraduate career the student is continually reminded that Engineering is a profession of service; service to mankind in his steady march "Toward Civilization" of a higher order, of greater benefit to *all* of mankind. The young man is reminded of his obligation to use his knowledge of the forces and materials of nature in creating machines, methods and organizations which will assist in the progress of his fellow men. Distinction is carefully pointed out between the scientific acquisition of knowledge and the artistic use of acquired knowledge.

So far, our knowledge has been based on the discoveries and developments of others. We are impatiently looking forward to the establishment of an organization, with adequately trained personnel, to carry on research leading to the discovery and development of scientific facts of direct use to the people and industries of the State of Delaware. The results of research by an Engineering Experiment Station will not only be of direct use but will also be of indirect benefit in furnishing further inspiration to our teachers and students and a closer co-operation between the Engineering School and the Industry of the State.

R. L. SPENCER
Dean.

The Department of Mathematics

ANY student of the University who has had proper preparation and has a taste for logical thinking, may at the end of four years of undergraduate study of mathematics, proceed to the next higher grade of standing in the mathematical world.

An opportunity is offered in all the courses of study for elective work in any department that may appeal to the student, provided such election may contribute to a justifiable end.

In the several engineering courses, of necessity, work in mathematics is carried on rather intensively in the Freshman and Sophomore years; four hours in the Freshman year and six hours in the Sophomore year being devoted to this subject. In the other courses, a more leisurely program is provided in those years as only three hours of work in mathematics is provided in the Freshman and Sophomore years.

In the Junior and Senior years of the technical courses Differential Equations is open for election and instruction is also given in Vector and Tensor Analysis. These classes furnish an excellent opportunity for anyone who desires to extend his mathematical experience into regions of the highest practical utility.

G. A. HARTER
Head of Department.

The Department of Electrical Engineering

THE Electrical Engineering Department attempts to send out graduates who are well grounded in the fundamental theory of electricity and who are familiar with modern electrical test technique. The students in this department are also encouraged to take an interest in studies which are generally admitted to lead toward a liberal education.

During the first two years of their course, Electrical Engineering students study general subjects. They learn to draw, to control machinery, and to manipulate shop devices; they study Mathematics, Physics, and English. However, Junior and Senior students are specialists. They work in steam, hydraulic, and electricity laboratories; they study both elementary and advanced Direct- and Alternating-current theory, and Radio theory and applications.

Good Senior students are encouraged to attempt the solution of problems in minor research. They consider television, photoelectric-cell applications, short-wave radio transmitters and receivers, and many other interesting technical subjects.

G. A. KOERBER
Head of Department.

The Department of Civil Engineering

THE Department of Civil Engineering of the School of Engineering supplies the young man, wishing to make the profession of Civil Engineering his life's work, with all the training essential to entering the field through either railroads, highways, structural steel, reinforced concrete, sewerage, or water supply.

Mathematics, Physics, and English make up the ground work upon which all engineering is based and these form the greater part of the preparation in the first two years. Surveying is of first importance to the Civil Engineer and is taught through two and one-half years, beginning with the elementary and finishing with the more advanced work. The regular instruction in surveying is supplemented by two summer schools of two weeks each given at the end of the Freshman and Junior years.

Other Civil Engineering courses are given in the last two years in graphics, the theory and design of steel structures, reinforced concrete, hydraulics, highways and municipal engineering. Laboratory facilities are supplied for work in surveying, hydraulics, and highways. At the end of the four years of preparation, the graduate is qualified to accept a position where advancement to greater responsibility is assured if intelligent use is made of the training acquired.

R. W. THOROUGHGOOD
Head of Department.

The Department of Mechanical Engineering

THE function of this department is to act as a service organization to the various divisions of the Engineering School. The theoretical courses offered served as a foundation for the practical applications to design of machines and structures which come later in the students' studies. The laboratory courses are designed to give a student an insight into the action of various engineering materials under stress and to acquaint him with the methods of performing tests which are required in specifications for those materials.

In addition to the college work the department cooperates with industries and municipal organizations in studying problems which concern the qualities and characteristics of the materials they use.

The Materials Testing Laboratory is moderately well equipped to meet the needs of the Engineering School and plans for the future provide for additional equipment to adequately care for its growing requirements.

H. K. PRESTON
Head of Department.

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