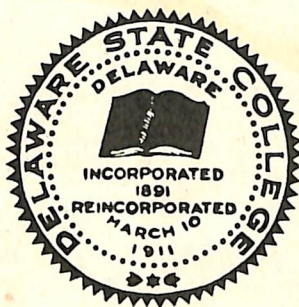


HC Dix

DELAWARE STATE COLLEGE

DOVER, DELAWARE



Catalogue 1966 - 1967

With Announcements for the
Seventy-Sixth Session 1967-1968

DELAWARE STATE COLLEGE

CATALOGUE

A Record of 1966-67

**Announcements for the Year Beginning
September 5, 1967 and Ending June 3, 1968**

1967

Dover, Delaware

The provisions of this publication are not to be regarded as an irrevocable contract between the student and Delaware State College. The College reserves the right to change any provision or requirement at any time within the student's term of residence. The College further reserves the right at any time to ask a student to withdraw when it considers such action to be in the best interests of the College.

ACCREDITATION

Delaware State College, chartered by the State of Delaware, is accredited by the Middle States Association of Colleges and Secondary Schools and the Delaware State Board of Education.

COLLEGE DIRECTORY

Admission of Students and Requests for Catalogues: The Director of Admissions

Placement of Students and Graduates: The Director of Student Personnel and Placement

Transcripts of Academic Records: The Registrar

Alumni and Public Relations: The Director of Alumni and Public Relations

Student Affairs: The Director of Student Personnel

Payment of College Bills: Business Office

Post Office Address

DELAWARE STATE COLLEGE, DOVER, DELAWARE 19901

TELEPHONE NUMBER: 734-8271

EXTENSION 21—Office of the President
EXTENSION 23—Office of the Dean of College
EXTENSION 24—Office of the Registrar
EXTENSION 25—Office of the Business Manager
EXTENSION 63—Office of the Director of Admissions
EXTENSION 76—Office of the Director of Evening School
EXTENSION 62—Library
EXTENSION 32—Office of the Director of Student Personnel and Placement
EXTENSION 64—Tubman Hall (Women's Dormitory)
EXTENSION 84—Laws Hall (Women's Dormitory)
EXTENSION 65—Conwell Hall (Men's Dormitory)
EXTENSION 75—Infirmary
EXTENSION 50—Office of the Director of Alumni and Public Relations
EXTENSION 41—Office of the Director of Counseling Service

NIGHT TELEPHONE NUMBERS

734-5606—Infirmary
734-5283—Tubman Hall
734-5115—Laws Hall
734-5141—Conwell Hall

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ACADEMIC CALENDAR 1967-1968

September 5 (Tues.)	Faculty Institute
September 6-8 (Wed., Thurs., Fri.)	Freshman Orientation
September 11, 12 (Mon., Tues.)	Registration
September 13 (Wed.)	Class Instruction Begins Late Registration Begins
September 19 (Tues.)	Last Day of Late Registration and Program Changes
October 21 (Sat.)	Homecoming
October 29 (Sun.)	Parents' Day
November 6-8 (Mon., Tues., Wed.)	Mid-Semester Examinations
November 22-26 (Inclusive)	Thanksgiving Recess
November 27 (Mon.)	Classes Begin at 8 A.M.
December 16-January 2 (Inclusive)	Christmas Recess
January 3 (Wed.)	Classes Begin at 8 A.M.
January 22-26 (Mon. through Fri.)	First Semester Examinations
January 31-February 2 (Wed., Thurs., Fri.)	Freshman Orientation
February 5, 6 (Mon., Tues.)	Registration
February 7 (Wed.)	Class Instruction Begins Late Registration Begins
February 11 (Sun.)	Founders' Day
February 13 (Tues.)	Last Day of Late Registration and Program Changes
March 2 (Sat.)	Career Conference
March 3-8 (Sun. through Fri.)	Religious Emphasis Week
April 1-3 (Mon., Tues., Wed.)	Mid-Semester Examinations
April 6 (Sat.)	High School Day
April 12-15 (Inclusive)	Spring Recess
April 16 (Tues.)	Classes Begin at 8 A.M.
May 20-24 (Mon. through Fri.)	Senior Second Semester Examinations
May 27-29; May 31 & June 2 (Mon., Tues., Wed., Fri., Sat.)	Second Semester Examinations
May 30 (Thurs.)	Memorial Day Recess
June 1 (Sat.)	Alumni Day
June 2 (Sun.)	Baccalaureate
June 3 (Mon.)	Commencement

HISTORY

Delaware State College, situated on the DuPont Highway, U.S. 13, less than one mile north of Dover, the State Capital, is within easy reach of Wilmington, Baltimore and Philadelphia. The College was established as a land-grant institution by the General Assembly of the State of Delaware, May 15, 1891, under the provisions of the federal land-grant Morrill Acts.

A two-hundred acre campus affords ample space for the College's modern buildings and student body of approximately seven hundred and fifty. The student body comes from various sections of the United States, South America, and Africa.

AIMS AND OBJECTIVES

The motivating objective of the College is to provide for the student an intellectual, social, and personal climate which will, through the combined efforts of student and faculty, promote his growth toward a more mature, cultured, and competent individual, who is conscious of his rights as a person and his obligations as a member of the human race and a citizen of an international community.

To carry out the above objective, the College seeks to promote the following educational aims:

High standards of scholastic achievement.

The type of inquiring mind which is capable of recognizing and solving life problems in a satisfying manner.

Wholesome philosophies of life—philosophies which lie within the framework of democratic precepts.

Skills in communicating ideas through socially acceptable oral and written media.

Understanding and appreciation of our culture and its relationship to other cultures, both past and present.

Desire to serve—to serve in the home, the community, and the nation.

Optimum physical well-being among the students.

BOARD OF TRUSTEES AND OFFICERS OF ADMINISTRATION

BOARD OF TRUSTEES

	Residence	Term Expires	
John N. McDowell, President	Newark,	June,	1971
William G. Dix, Vice President	Bridgeville,	June,	1968
Harold H. Keller, Secretary	Laurel,	June,	1969
James C. Hardcastle	Dover,	July,	1970
Harold Schmittinger	Dover,	June,	1973
James W. W. Baker	Georgetown,	September,	1973
Edward W. Hagemeyer	Wilmington,	September,	1970
Charles E. Grubb	Newark,	September,	1968
Walton H. Simpson	Camden,	September,	1969
James H. Williams	Dover,	September,	1971

EX OFFICIO

The Governor of the State of Delaware, CHARLES L. TERRY, JR., Dover
The President of the College, LUNA I. MISHOE, Dover

OFFICERS OF ADMINISTRATION

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President

B.Sc., Allen University; M.Sc. University of Michigan;
 Ph.D., New York University

ROMEO C. HENDERSON, ED.D.
Dean of the College

A.B., Livingstone College; M.A., Cornell University;
 Ed.D., Pennsylvania State University

NORWOOD C. DAVIS, B.S.
Director of Admissions
 B.S., North Carolina A & T College

WILLIAM A. DANIEL, PH.D.
Registrar

A.B., Virginia Union University; A.M., Ph.D., University of Chicago

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Director of Student Personnel and Placement
 B.S., Ed.M., Boston University

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Assistant Director of Public Relations and Alumni Affairs
 A.B., Morgan State College; M.A., New York University

EDWARD T. CRAWFORD, M.C.S.; C.P.A.
Business Manager
 B.C.S., M.C.S., Benjamin Franklin University

JESTINA T. HENDERSON, M.S.L.S.

Head Librarian

B.S., Shaw University; M.S.L.S., Catholic University

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 SANDRA R. ARNELL, B.S., *Secretary*

OFFICE OF THE DEAN OF THE COLLEGE

JOANNE B. GIBSON, B.S., *Secretary to the Dean*

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 CHARLES CARTER, *Post Office and Bookstore Clerk*

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 ETHEL GRIGSBY, *Secretary*

OFFICE OF STUDENT PERSONNEL

THEDA M. ROBERTSON, *Clerk*

OFFICE OF PUBLIC RELATIONS AND ALUMNI AFFAIRS

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ROSA S. SMITH, B.S., *Secretary*

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ROBERTA GIBSON, *Library Assistant*
LILLIAN PORTER, *Library Assistant*
HELEN WALKER, *Library Assistant*
LOLITA HOWELL, *Library Assistant*
MOEZELL H. HYLAND, B.S., *Secretary*

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CECILE M. COLEMAN, R.N.
NAZELLE C. REYNOLDS, R.N.

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M. ELIZABETH SMITH, *Assistant to the Superintendent of Buildings and Grounds*

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MURPHY HINES, B.S., *Assistant Director of Food Services*

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ALICE T. HOWARD, *Assistant Director of Tubman Hall*
MARIA B. SMITH, *Assistant Director of Laws Hall*
LINDA WILSON, *Assistant Director of Laws Hall*

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MARY STEVENS, B.S., *Director*

COMPUTING LABORATORY

AUDREY DANIELS, *Assistant in the Computing Laboratory*

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and Coordinator of Religious Activities

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*Part-time

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 B.S., Havana Institute; Pd.D., University of Havana

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 B.A., University of Delaware

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 B.S., Hampton Institute; M.A., New York University

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Lecturer in Music Education
 Mus.B., Howard University; M.S., University of Pennsylvania

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MRS. L. FRANKLIN	MISS G. MENDENHALL— <i>Student</i>

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MR. T. TAYLOR	MR. R. HORTON— <i>Student</i>
MR. D. NICHOLS	

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DR. J. WILSON	DR. Y. PU
MR. J. WILLIAMS	DR. M. CALDWELL
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MR. R. WALKER	DR. N. TILLMAN
MRS. J. HENDERSON	

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MR. R. WALKER	MR. J. WILLIAMS
DR. W. WYNDER	

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DR. T. FERGUSON, JR.	

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MR. B. GEORGE	DR. G. SEIDEL
MISS C. WARREN	

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MR. E. TALBERT	DR. R. HENDERSON

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MRS. H. JONES	MISS R. LITTLE— <i>Student</i>
MR. M. HINES	MR. S. MASCOLL— <i>Student</i>

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MRS. M. CHRISTOPHE	DR. R. FINKELSTEIN
MRS. M. SEYMOUR	MRS. O. VALCARCE
MR. R. STONE	MISS D. ROBERTS— <i>Student</i>

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MR. H. WASHINGTON, III	DR. J. DEL TUFO
MRS. E. MOORE	MR. D. SMAW— <i>Student</i>

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MISS M. LANE	DR. M. CALDWELL
MR. F. FRANKLIN	MRS. V. POWELL
MR. E. CRAWFORD	

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MISS L. JOHNSON	REV. C. HAMMOND
MISS C. WARREN	MR. K. AMOS— <i>Student</i>
MR. L. INGRAM	

BUILDINGS AND GROUNDS

On a campus of two hundred attractively landscaped acres stand the College's modern buildings.

Grossley Hall. The administration and classroom building is a two-story structure. Located in this structure are offices of the President; the Dean; the Registrar; the Director of Admissions; Director of Counseling Service; the Business Manager; the Director of Student Personnel and Placement; the Faculty; Audio-Visual Aids Center; Foreign Language Laboratory; classrooms; the Child Development Laboratory; and the campus bookstore.

Memorial Hall. Among the largest of the College's structures is this modern, well-equipped center for health, physical education, and recreation where an indoor swimming pool and gymnasium are maintained for use by the Department of Health and Physical Education. Faculty offices and classrooms are also located in Memorial Hall.

William C. Jason Library. Originally the small College Chapel, this building has been expanded into an attractive modern facility geared to the needs of a growing institution. The book collection is well adapted to the reference, instructional, and recreational needs of the College. There is a representative collection of periodicals and newspapers, popular, literary and special.

Delaware Hall. In this building are the offices and classrooms for the Departments of Psychology and Music Education, the office of the Student Government, and an auditorium.

Lydia P. Laws Hall. This residence houses junior and senior women. Completed in 1963, it has a living capacity for 100 female students; an attractive and spacious lounge with patio; a recreational room; a completely equipped beauty parlor; a smaller lounge; a study room and utility room on each floor; a modern furnished kitchen; and a laundry room with washers and dryers.

Harriet Tubman Hall. This residence hall is available for freshman and sophomore women living on the campus. It has an attractive lounge, a recreation room, and a beauty parlor.

Conwell Hall. This residence hall is occupied by men. Included in this building are a student lounge, a faculty lounge, a barber shop, and a recreation room.

Conrad Hall. A dining hall, open to students and faculty members, has been expanded to a seating capacity of four hundred. It is equipped to provide cafeteria service. The Home Economics Department is located on the second floor of this building. The College canteen is located in the basement of this building.

Science Center. A new \$1,500,000 structure comprising an astronomical observatory; a vivarium; laboratories and classrooms for the biological sciences, chemistry, mathematics, physics and science education; a computing laboratory; a radiation laboratory; offices; research laboratories; a library and an amphitheatre.

The Infirmary. A modern infirmary which is adequately equipped is operated by the College for students who require medical treatment or confinement for minor illnesses. Two full-time nurses and a part-time nurse and medical doctor are employed.

T-Building. A classroom and office facility for the Department of Economics and Business Administration.

Center for Agriculture and Natural Resources. This new and modern structure houses classrooms, laboratories, farm mechanics shop, and faculty offices for the Department of Agriculture and Natural Resources. Also located in this structure is a greenhouse.

GENERAL INFORMATION

How to Reach the College

Students coming from areas north of Delaware may travel by train to Wilmington and then change to Carolina Trailways, Greyhound or Short Line coaches which stop at the entrance of the College.

Students coming from the Washington-Baltimore area may travel by bus to State Road, Delaware, and then transfer to buses for Dover.

Those students who come from areas south of Washington may take the train to Wilmington and change to buses for Dover.

Placement Service

The Placement Service offers students and graduates assistance in obtaining employment. Through personal interviews and analysis of interests and experiences, it helps to guide students and graduates into occupations that will utilize their capabilities to the fullest extent. After students are registered, a complete file of their records and references is assembled. Assistance and occupational counseling are also given below the senior level to students who seek part-time and summer employment.

Student Organizations

The Student Government Association, operating under a Student Council and supplemented by two dormitory councils, namely the Women's Senate and the Men's Council, provides leadership in student activities, enforces regulations for student life formulated by the Council, assists with discipline, and helps the student meet his responsibilities through self-discipline and self-improvement.

The College Choir and Band perform at many college functions and offer special programs. Occasionally, these groups give concerts in nearby cities.

The Biology Club provides opportunities for students of biology to express their creative talents, to gain additional experience in developing laboratory skills, and to hear lectures and discussions on recent developments in the field.

The Business Club serves as a guide in the development of accepted business practices for the business students.

The Dramatic Guild develops skills and aptitudes in self-expression and stage craft.

The Social Science Club presents lecturers for addresses and consultations as an aid to creating interest in national and world affairs.

The Health and Physical Education Club offers the opportunity for experience in administering and supervising the College intramural athletic program.

The Varsity Club, composed of students who have won a letter in some intercollegiate activity, strives to stimulate school spirit and to enhance the structure of athletics at the College.

The Fine Arts Club make a unique contribution to the students' liberal education by concentrating upon various combinations of the arts, concerts, lectures, recitals, and trips to nearby cultural centers, as well as offering activities on the campus.

The Student Affiliates of the American Chemical Society fosters a professional spirit among its members and instills a professional pride in chemistry. It further affords an opportunity for the students of chemistry to gain the intellectual stimulation that arises from professional associations and to secure experience in preparing and presenting material before groups.

The Veterans' Club helps to orientate incoming veterans to college life and in their courses of study while at the College.

The National Student Education Association acquaints its members with opportunities in the profession and aids them in the necessary preparation for the profession.

The Mathematics Club, open to all interested students, is an organization designed to enrich and broaden the students' program by exposing them to mathematical information not studied in class.

The Home Economics Club promotes professional growth and encourages fellowship among all Home Economics students. Membership is open to any student enrolled in a Home Economics course.

The Charm and Culture Club, an organization of freshman women, promotes cultural activities, discussions, lectures, and forums for the personal development of young college women.

The Debating Team provides an opportunity for interested students to participate in public discussions and debates on college and intercollegiate basis.

Greek Letter Organization

There are seven Greek-letter organizations at Delaware State College under the jurisdiction of the Pan-Hellenic Council. Active chapters on the campus include the Alpha Kappa Alpha Sorority, Delta Sigma Theta Sorority, Zeta Phi Beta Sorority, Alpha Phi Alpha Fraternity, Kappa Alpha Psi Fraternity, Omega Psi Phi Fraternity, and Phi Beta Sigma Fraternity.

Honor Society

The Alpha Kappa Mu Honor Society aims to promote high scholarship; to encourage sincere and zealous endeavor in all fields of knowledge and service; to cultivate a high order of personal living; and to develop an appreciation for scholarly work and scholarly endeavor in others.

Religious Life

Through its religious activities, the College seeks to develop an understanding of and an appreciation for the place of religion in everyday life, to deepen spiritual insights, and to make the practice of Christian principles a vital part of the life of the well-educated citizen. Religious activities are sponsored by the Student Christian Association and the Coordinator of Religious Activities. An annual feature of the religious life of the students at Delaware State College is observance of Religious Emphasis Week.

Cultural Activities

The Lyceum Committee presents artists of the concert world on the College campus. The Library Committee sponsors an annual Library Cultural Series which offers stimulating contact with thinkers and writers on contemporary affairs.

Athletics

Delaware State College is a member of the Central Intercollegiate Athletic Association, District 31 of the National Association of Intercollegiate Athletics, and the National Collegiate Athletic Association.

Intercollegiate sports are of real importance in the education of students for leadership and responsibility. Baseball, basketball, football, track and field, tennis and swimming are the sports in which Delaware State College competes on an intercollegiate basis.

Intramural athletics are designed to serve the needs of all students who wish to participate.

FEES AND EXPENSES

General College Fees

Tuition (chargeable only to out-of-state students)	\$350.00
College Fee	150.00
Registration Fee (nonrefundable)	50.00
Medical Fee	15.00
*Student Insurance (nonrefundable)	22.60
Student Activity Fee	45.00
Room and Board	525.00
Library Fee	5.00
Late Registration Fee (per day)	5.00
Transcript	1.00
Fee for absence before and after holidays (per day)	3.00
Graduation Fee	10.00
Practice Teaching Fee	75.00
Photograph Fee	1.00
**Room Deposit (nonrefundable)	10.00

Laboratory Fees

These fees are paid in certain courses to cover the cost of supplies. Charges per semester are as follows:

Agriculture 201	8.00
Agriculture 202	8.00
Agriculture 308	8.00
Agriculture 416	8.00
Art 102	8.00
Art 201	8.00
Art 301	8.00
Art 302	8.00
Biology	12.50
Business Machines	8.00
†Chemistry	12.50

(Laboratory fees continued on next page)

*Student Insurance is required of all full-time students. This insurance covers, with limitations, medical and hospital charges as provided by Blue Cross and Blue Shield.

**This deposit must be made prior to July 15 for the first semester and before December 15 for students entering during the second semester.

†A breakage deposit of ten dollars (\$10.00) per semester is required of each student registered for laboratory courses in chemistry, in addition to the laboratory fee. The deposit less the value of equipment broken or lost by the student is returned upon completion of the course.

Home Economics 102	8.00
Home Economics 104	8.00
Home Economics 106	8.00
Home Economics 203	8.00
Home Economics 204	8.00
Home Economics 301	8.00
Home Economics 302	8.00
Home Economics 303	8.00
Home Economics 304	8.00
Home Economics 308	8.00
Home Economics 310	8.00
Home Economics 318	8.00
Home Economics 320	8.00
Home Economics 403	8.00
Home Economics 405	8.00
Home Economics 407	8.00
Home Economics 409	8.00
Physical Science	12.50
Physics	12.50
Typing	8.00

Schedule of Payment of Fees

The following is a complete schedule of tuition and fees. All regular College fees, registration fee excepted, are payable in two installments per semester. Laboratory fees are not included.

	First Semester		Second Semester		Total
	First Payment	Second Payment	First Payment	Second Payment	
Room and Board	\$131.25	\$131.25	\$131.25	\$131.25	\$525.00
Registration Fee	25.00		25.00		50.00
College Fee	37.50	37.50	37.50	37.50	150.00
Student Activity Fee	11.25	11.25	11.25	11.25	45.00
Tuition	87.50	87.50	87.50	87.50	350.00
Medical Fee	3.75	3.75	3.75	3.75	15.00
Student Insurance	22.60				22.60
Library Fee	1.25	1.25	1.25	1.25	5.00

All installments are payable either by mail or in person at the Business Office on the dates indicated below. Students whose accounts are in arrears forfeit dining hall and classroom privileges:

	First Semester		Second Semester		Total
	9/11/67	11/13/67	2/5/68	4/8/68	Per Yr.
*Boarding Resident Student	\$232.60	\$185.00	\$210.00	\$185.00	\$812.60
Boarding Non-Resident Student	320.10	272.50	297.50	272.50	1,162.60
Non-Boarding Resident Student	101.35	53.75	78.75	53.75	287.60
Non-Boarding Non-Resident Student	188.85	141.25	166.25	141.25	637.60

*Students who have resided in the State of Delaware for the entire year immediately preceding their first registration at the College are considered "resident students."

Payments should be made by cashier's check, certified check, or money order. All checks should be made payable to Delaware State College and should be sent to the Business Office.

Inquiries regarding all students' financial matters are invited and should be directed to the Business Office.

The Director of Student Personnel, who serves as Coordinator of Veterans' Affairs, is prepared to advise veterans planning to attend the College under any of the G.I. Bills.

Withdrawal Refunds

Students withdrawing from College after the beginning of classes are entitled to refunds of regular semester fees according to the following schedule only if the withdrawal is officially acknowledged by the Registrar:

Within ten days—All regular fees refunded except the registration fee, insurance fee, and one-fourth of the room and board for the current half-semester pay period;

From eleven to thirty days inclusive—One-third of room and board and regular fees refunded for current half-semester pay period except registration fee and insurance fee;

No refund after thirty days of a current half-semester pay period.

The unused portion of all loans, including NDEA, in the custody of the college, shall be refunded to their respective funds.

The unused portion of all scholarships shall be refunded to respective funds.

Financial Aid

Financial assistance is made available to qualified students in three ways: through scholarships provided by the State Legislature and a limited number from private sources, work-aid, and student loans.

State Scholarships. The State Legislature makes available annually scholarship funds to be distributed to Delaware students who need financial aid. The amount given each student depends upon the need, department, and scholastic standing of the individual. This fund is administered by the Scholarship Committee.

Financial Grants in Aid. A limited number of work-aid assignments are awarded each year to deserving students who would otherwise not be in a position to finance their College obligation. Students who desire such assistance should write to the Director of Student Personnel and file application for the job desired not later than September 1.

Students enrolling at Delaware State College for the first time should not come depending upon securing work, but should be prepared to pay the full amount of their expenses until they have oriented themselves and have demonstrated their ability.

Seniors should be prepared to pay the major portion of their expenses. The senior academic and extra-curricular programs, in a majority of cases, limit the student in his possibility to earn through the work-aid program.

Students who need small sums of money for emergency purposes related to their academic program may apply for a short term student loan through the Office of Student Personnel. The maximum amount of a short term loan is twenty-five dollars which must be repaid within a thirty-day period.

National Defense Student Loan. The College is a participant in the National Defense Student Loan Program of the Federal Government which makes loans available to eligible students.

ADMISSIONS

Students seeking admission to the freshman class or to advanced standing should apply either in person or by mail to the Director of Admissions, Delaware State College, Dover, Delaware. All students who are admitted are subject to the rules and regulations of the College.

General admissions are made twice each academic year; in September and February. Students may be admitted by:

1. Submitting a certificate or diploma from an accredited four-year high school or an accredited senior high school with the recommendation of the principal.
2. Satisfactory passing a battery of examinations administered by the College or the College Entrance Examination Board.
3. Submitting an official transcript as evidence of successful completion of courses taken in other institutions.

4. Qualifying as a special adult student.
5. Qualifying under requirements of the program for honorably discharged veterans.

Admission Credentials

Admission credentials which the Director of Admissions must have in order to consider an applicant include:

1. Completed application for admission.
2. Secondary school record and recommendation.
3. Personal recommendations.
4. Official transcript and statement of honorable dismissal for each college attended. (Transfer applicants only.)
5. Photoprint of Separation Record, showing training and service schools completed. (Veterans only.)

Degree Candidate

1. Graduation from an approved high school where the record of performance has been a creditable one.
2. At least 15 units* of secondary school work distributed as follows:

English	4 Units
Mathematics	2 Units
Science	2 Units
History	1 Unit
Electives	6 Units
3. Students from schools operating under experimental programs will be considered in the light of these, depending upon their performance on the battery of tests administered to all freshmen.
4. From an unapproved high school with at least 15 units of work of acceptable grades and by satisfactory performance on a battery of tests administered to all freshmen.

*A unit is defined as the equivalent of 120 clock hours of work in the classroom under the direction of a teacher. It is further defined as one-fourth of the school work of a normal pupil for one academic year.

Advanced Standing

Applicants for admission from other colleges must meet the regular entrance requirements for admission and must present an official transcript of all work completed at other institutions and a statement of honorable dismissal from the college last attended. Students who have been dismissed or suspended from other institutions will not be permitted

to enroll until creditable standing has been re-established at the schools previously attended or another college, whose credits are accepted at Delaware State College. In the latter case, the applicant's record of not less than 24 semester hours will be evaluated as an addition to the previous record and the over-all record serves as the basis for acceptance or rejection. Students who have been placed on academic probation at other institutions and who are eligible to return to those institutions may be accepted with the same status at Delaware State College. Students who have been dismissed, suspended, or placed on probation for disciplinary reasons will not be permitted to enroll.

Special Student

One is admitted as a special student under the following conditions: He must be 21 years of age and must give evidence of training or experience that will enable him to pursue adequately the course desired. However, all College entrance requirements must be satisfied before he is admitted to candidacy for a degree.

Foreign Student

The College accepts a limited number of foreign students whose transcripts are cleared as satisfactory by the International Educational Relations Branch of the Division of Education, Department of Health, Education, and Welfare, U.S.A. Students desiring to enter the College should forward their transcripts early in the year preceding the semester they desire to enter so that the Director of Admissions will have sufficient time to consider their credentials. Furthermore, foreign students are advised to be well aware of their financial obligations.

Resident Student

The status of a student's residence is determined during the time of his first registration at the College. It may not thereafter be changed by him unless he moves to and becomes a legal resident of Delaware by maintaining residence in the state for at least one full calendar year prior to his next registration.

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

Students admitted as residents of the State of Delaware whose parents move out of the state during any year of their study at the College will not be considered non-residents for that year. However, they will be so considered for the year(s) following.

REGISTRATION

Major Advisors

The student's faculty advisor will interview him each semester and will officially approve his program before it is filed with the Dean of the College and the Registrar.

Freshman Academic Advisory Panel

Instructors who are assigned as members of the panel aid the student in planning his course work and guide him in matters related to his studies during the freshman year.

Late Registration

Students failing to register by the date that classes begin are charged a late registration fee of five dollars per day.

Withdrawal from College

Students voluntarily withdrawing from College must fill out in duplicate the withdrawal form procured from the Office of the Registrar. Students withdrawing will be reported as having withdrawn failing (WF) or withdrawn passing (WP), depending upon the quality of performance at the time of withdrawal. Students withdrawing without following this procedure will receive F grades for their courses.

Reinstatement

Students wishing to return to the College after a voluntary or involuntary absence of one semester or more must make written application to the Director of Admissions not later than August 1 for the first semester or December 1 for the second semester.

Credits

Academic work in the College course is measured in semester hours of credit. A semester hour is equal to fifty minutes of recitation or lecture work per week for one semester. A minimum of two hours of laboratory work yields one semester hour.

Credit will not be granted for correspondence courses.

Credit may be given for appropriate courses taken under the direction of the Armed Forces Institute or courses completed in service schools, in accordance with the recommendations of the American Council on Education.

All incompletes in work yield the Grade I. This grade must be removed by the end of the first six weeks of the student's next semester in residence. Otherwise the Grade I becomes an F.

Transcript of Records

The first transcript issued for a student is prepared without charge. For each additional transcript, a fee of one dollar will be charged.

ACADEMIC REGULATIONS

Academic Probation

A student whose grade point average is below 1.70 in the work of any semester shall be automatically placed on academic probation for the succeeding semester with a reduced load of not more than twelve semester hours of work. Those students attending summer school at Delaware State College or any other accredited college with proper approval who were enrolled during the second semester of the given school year at Delaware State College prior to attending summer school will have their summer school grades computed along with the grades of the second semester to determine their grade point average.

In order to be removed from academic probation, a student must earn a grade point average of 2.00 or better. If a student on probation fails to attain this average, he shall be suspended for the following semester. At the expiration of this period he may apply for readmission on probation. If the student fails to earn a grade point average of 2.00 during the semester of his reinstatement, he shall not be permitted to enroll for further work at the College. Any student who has not earned a minimum cumulative average of 1.70 by the end of the sophomore year will be permanently dismissed from the College.

General Probation

Any student who has been dismissed, suspended, or placed on disciplinary probation may not represent the College in any public activity nor hold any elective office or appointment of responsibility during the semester affected.

Attendance

All students are expected to attend punctually every scheduled meeting of each class in which they are registered except when serious illness or an emergency prevents them. When a student has unexcused absences in any course in excess of the number of credit hours which the course yields, the student may receive a failing grade.

Grades

The grades assigned at the completion of a course are designated as follows: A, Excellent; B, Good; C, Fair; D, Poor, and F, Failure.

The several grades yield points as follows: A, 4; B, 3; C, 2; D, 1; F, 0. WF counts as an F in computing grade point averages.

Reports of grades earned are issue at the end of each semester. Advisory grades are given at intervals of nine weeks during the aca-

demio year and are sent to parents or guardians. A student earning a final grade of D in a major course must repeat the course.

Honors

The Dean's List includes those students who, carrying fourteen or more semester hours during the preceding semester, earned a scholastic average of 3.25 or above.

Honors are awarded at graduation under the following conditions:

With Highest Honor for a scholastic average of 3.75 or above.

With High Honor for a scholastic average between 3.50 and 3.75.

With Honor for a scholastic average between 3.25 and 3.50.

Examinations

Final examinations shall be required of all students in all subjects.

GENERAL PLAN OF STUDY

Delaware State College is a multiple-purpose institution, thereby making it possible for students to choose one of several programs of study. The requirements for the Bachelor of Arts or Bachelor of Science degree insure the development of skills in the broad fields of human knowledge and in a single field of concentration. Programs have been planned to provide for the student a sound foundation in the liberal arts and sciences on which to base intensive work in the sphere of his special interest.

The total number of credits required for graduation varies with the several curricula, but the minimum requirement is one hundred twenty-one semester hours.

Requirements for the Baccalaureate Degree

In order to receive the baccalaureate degree, a candidate must have completed satisfactorily the following requirements:

1. A minimum of one hundred and twenty-one semester hours of academic work. The number of grade points earned must at least double the number of semester hours accumulated. No student is eligible for a degree unless he has earned a grade of C in each course of his field of specialization.
2. Of the total of one hundred and twenty-one semester hours, fifty-six of General Education are required; fifteen hours of intellectual tools and competencies—English, Freshman Orientation, Health Education, and Physical Education; fourteen hours in the Humanities—Word Literature, Fine Arts, Music, Philosophy, and Foreign Languages; fourteen hours in the Natural Sciences—

Biology, Chemistry, Mathematics, and Physics; and thirteen hours in the Social Sciences—Western Civilization, History and Government of Delaware, General Psychology, Principles of Economics, American Government, History of the United States, or Introduction to Sociology.

3. Those students electing to take a foreign language must complete two full years (12 semester hours) on the college level in one language. Students presenting two units of high school work in a foreign language may be exempted from the first year language course on the college level after satisfactory performance on a standardized language test.
4. A student may select a certain number of electives in accordance with his interests and professional purposes. He should do this in conference with his advisor.
5. All candidates must earn four (4) semester hours in physical education. Each student must, before entering the college, have had a physical examination. Students who are certified by their physician or the college physician as unable to participate in the regular physical education program must enroll in the modified physical education classes for four semesters.
6. A candidate for the Bachelor's degree must complete the last thirty semester hours of credit at this College with at least sixty grade points.
7. No degree may be granted unless the student's account with the College has been settled and all other obligations with the College have been satisfactorily discharged.

Students who have met the necessary requirements are eligible for graduation at the close of any semester. Degrees, however, are conferred only in June.

General Education

To assure the total development of students enrolled in the College so that they will be better prepared to fill a useful and satisfying place in society, the College endorses a curriculum of general education.

Intellectual Tools and Competencies 15

Required of all:

Education 101—Freshman Orientation	1
English 101-102—English Composition	6
English 200—Public Speaking	2
Health Education 101—Personal Hygiene	2
Physical Education 100—Physical Education Orientation— and three hours of electives on the 100-level courses	4

Humanities	14
Required of all:	
The Humanities 201-202—World Literature, Fine Arts, Music, Philosophy	8
Six additional hours to be selected from:	
Art 101—Art Appreciation	2
Art 102—Fundamentals of Drawing and Design	2
French 101-102—Elementary French	6
French 201-202—Intermediate French	6
German 101-102—Elementary German	6
German 201-202—Intermediate German	6
Music 101—Introduction to Music	2
Philosophy 201—Introduction to Philosophy	3
Philosophy 202—Ethics	3
Philosophy 203—Religions of Mankind	3
Spanish 101-102—Elementary Spanish	6
Spanish 201-202—Intermediate Spanish	6
Natural Sciences	14
*Six credits to be selected from:	
Mathematics 101-102—Introduction to Mathematics	6
Mathematics 101-104—Analytic Geometry	6
Mathematics 105-106—Mathematics for Elementary Teachers	6
*Only majors in Elementary Education may select Mathematics 105-106 to satisfy this requirement. All others should consult their curricula and departmental advisor for recommended selections. Students whose high school records indicate a mastery of material covered in Mathematics 101 and/or Mathematics 104 may, with the consent of the Department of Mathematics, elect Mathematics 201 and/or Mathematics 202 to fulfill the General Education requirement in Mathematics.	
Eight credits to be selected from:	
Biology 101-102—General Biology	8
Chemistry 101-102—General Chemistry	8
Physics 201-202—General Physics	8
Social Sciences	13
Required of all:	
History 101-102—World Civilization	6
History 104—History and Government of Delaware	1
Psychology 201—General Psychology	3
Three additional hours to be selected from:	
Economics 201—Principles of Economics	3
Political Science 103—Introduction to Government	3
History 201 or 202—History of the United States	3
Sociology 201—Introduction to Sociology	3

Freshman Differential Curriculum

This program is an attempt to adjust each student's curriculum to his ability and preparation. Based on the students' high school records and their performance on the battery of tests taken during their first week in College, all freshmen are grouped into three Tracks in English Composition.

Track A is designed to accommodate students who show achievement above the average level for first year college students.

Track B is composed of students of average educational achievement.

Track C consists of students whose performance on the tests places them below the average expected of entering freshmen.

Students in Track A are provided an enriched program of study and their assignments are more rigorous than those for students in the other two groups. The students in Track B are provided a normal load. Students in Track C carry a reduced load of twelve semester hours. They are required to attend class in English Composition five times each week. This requirement is based on the belief that the additional attention they receive will result in marked educational improvement during the period of their first year in college. Students in Track C receive three semester hours credit for this course. Any Track C student with an average below 1.70 at the end of the freshman year may attend summer school in order to bring his average up to where he can remain in school. In such cases, the summer school grades will be included in the second semester average. Furthermore, any student in Track C who earns an average of C or better during the second semester is allowed a third semester in order to bring his average up to where he can remain in school. The program also provides for students to be transferred, depending upon their academic performance during the year, from one particular Track to another.

A student in Track C at the end of two semesters and a summer of matriculation who fails to earn an average of at least 1.70 will be dismissed from the College.

CURRICULUM ORGANIZATION

The curriculum of the College consists of seventeen departments: Agriculture and Natural Resources, Art Education, Biology, Chemistry, Economics and Business Administration, Education, English, Foreign Languages, Health and Physical Education, History and Political Science, Home Economics, Mathematics, Music Education, Philosophy, Physics and Astronomy, Psychology, and Sociology and Anthropology.

In the numbering of courses in the curriculum, odd numbers refer generally to courses offered in the first semester and even numbers to courses offered in the second semester. The first digit of a course number indicates the level of the course. For example, courses intended primarily

for freshmen are numbered 100; those primarily for sophomores, 200; those primarily for junior, 300; and those primarily for seniors, 400. Hyphenated numbers (e.g. English 101-102) represent year courses.

THE DEPARTMENT OF AGRICULTURE AND NATURAL RESOURCES

The Department of Agriculture and Natural Resources offers professional courses designed to prepare students for educational service and technical courses designed to develop production and management skills. These experiences are provided to prepare teachers of vocational agriculture for secondary schools and in areas of technical agriculture. The Natural Resources curriculum offers career options in Fisheries Management, Environmental Health, General Resources Management, Park Administration and Recreation, Soil and Water Management, Vegetation Management, and Wildlife Management. In addition, a student may elect options which will prepare him for graduate study.

CURRICULUM IN AGRICULTURAL EDUCATION

Freshman Year

First Semester	Hours	Second Semester	Hours
History 101	3	English 102	3
English 101	3	History 102	3
Mathematics 101	3	Mathematics 102	3
Biology 101	4	Biology 102	4
Education 101	1	Health Education 101	2
Physical Education 100	1	Physical Education Elective (100 Level)	1
	15		16

Sophomore Year

First Semester	Hours	Second Semester	Hours
Humanities 201	4	Humanities 202	4
English 200	2	Chemistry 104	4
Philosophy 201	3	Agriculture 206	3
Psychology 201	3	Agriculture 208	3
Chemistry 103	4	Agriculture 210	3
Physical Education Elective (100 Level)	1	Physical Education Elective (100 Level)	1
	17		18

Junior Year

First Semester	Hours	Second Semester	Hours
Agriculture 301	3	History 104	1
Agriculture 309	3	Sociology 302	3
Agriculture 311	2	Agriculture 302	3
Agriculture 313	3	Agriculture 304	3
Agriculture 315	2	Agriculture 308	3
Agriculture 317	3	Agriculture 310	3
	16	Agriculture 316	2
			18

Senior Year

First Semester	Hours	Second Semester	Hours
Education 405	3	Education 412A	8
Education 407	3	Education 416	3
Education 415	3	Agriculture 414	3
Agriculture 405	3	Agriculture 416	2
Agriculture 409	3		
	15		16

NATURAL RESOURCES CORE CURRICULUM

Freshman Year

First Semester	Hours	Second Semester	Hours
Biology 101	4	Biology 102	4
Education 101	1	English 102	3
English 101	3	Health Education 101	2
History 101	3	History 102	3
Mathematics 101 or 201	3	Mathematics 104 or 202	3
Physical Education 100	1	Physical Education Elective (100 Level)	1
	15		16

Sophomore Year

First Semester	Hours	Second Semester	Hours
Biology 205	3	Chemistry 102	4
Chemistry 101	4	English 200	2
General Education Elective	3	General Education Elective	3
History 104	1	Humanities 202	4
Humanities 201	4	*Electives	3-6
*Elective	1-3	Physical Education Elective (100 Level)	1
Physical Education Elective (100 Level)	1		
	17-19		17-20

*Students planning to attend graduate school should elect French or German.

CURRICULUM OPTIONS

PARK ADMINISTRATION AND RECREATION

Required Courses: Natural Resources 301, 400, 401, 402, 403, and 451; Physical Education 204, 309, and 407.

Suggested Electives: Agriculture 210; Biology 202 and 308; Natural Resources 201, 202, and 321.

Junior Year

First Semester	Hours	Second Semester	Hours
Economics 201	3	General Education Elective	3
Natural Resources 321	3	Geography 101	3
Natural Resources 350	1	Natural Resources 350	1
Physical Education 309	2	Natural Resources 401	3
Psychology 201	3	Physical Education 204	2
*Electives	3-6	*Electives	3-6
	15-18		15-18

*Students planning to attend graduate school should elect French or German.

Senior Year

First Semester	Hours	Second Semester	Hours
Natural Resources 400	3	Natural Resources 403	3
Natural Resources 402	3	Natural Resources 442	3
Natural Resources 441	3	Natural Resources 450	1
Natural Resources 450	1-4	Natural Resources 451	3
Physical Education 407	2	Electives	6-9
Electives	3-6		
	15-21		16-19

WILDLIFE MANAGEMENT

Required Courses: Biology 204; Natural Resources 311, 321, 401, 402, 403, 450, and 451.

Suggested Electives: Agriculture 210; Biology 200, 201, 202, 303, and 308; Natural Resources 201, 202, 312, 313, 314, 400, 404, and 405.

Junior Year

First Semester	Hours	Second Semester	Hours
Chemistry 301	5	Biology 204	3
Economics 201	3	Chemistry 302	5
Natural Resources 321	3	Geography 101	3
Natural Resources 350	1	Natural Resources 350	1
Psychology 201	3	Natural Resources 401	3
*Elective	3	*Elective	3
	18		18

*Students planning to attend graduate school should elect French or German.

Senior Year

First Semester	Hours	Second Semester	Hours
Natural Resources 311	3	Natural Resources 403	3
Natural Resources 402	3	Natural Resources 450	1
Natural Resources 450	1	Natural Resources 451	3
Physics 201	4	Physics 202	4
Electives	3-6	Electives	3-6
	14-17		14-17

FISHERIES MANAGEMENT

Required Courses: Biology 204; Natural Resources 314, 321, 403, 404, 405, 450, and 451.

Suggested Electives: Biology 200, 201, 303, 305, 307, and 308; Natural Resources 201, 202, and 313.

Junior Year

First Semester	Hours	Second Semester	Hours
Chemistry 301	5	Biology 204	3
Economics 201	3	Chemistry 302	5
Natural Resources 321	3	Geography 101	3
Natural Resources 350	1	Natural Resources 314	3
Psychology 201	3	Natural Resources 350	1
*Elective	3	*Elective	3
	18		18

*Students planning to attend graduate school should elect French or German.

Senior Year

First Semester	Hours	Second Semester	Hours
Natural Resources 404	3	Natural Resources 403	3
Natural Resources 450	1	Natural Resources 405	3
Physics 201	4	Natural Resources 450	1
Electives	6-9	Natural Resources 451	3
	14-17	Physics 202	4
		Elective	0-3
			14-17

SOIL AND WATER MANAGEMENT

Required Courses: Agriculture 208 and 210; Natural Resources 313, 321, 401, 402, 450, and 451.

Suggested Electives: Biology 202, 204, 303, 305, and 308; Natural Resources 201, 202, and 400.

Junior Year

First Semester	Hours	Second Semester	Hours
Chemistry 301	5	Agriculture 208	3
Economics 201	3	Agriculture 210	3
Natural Resources 321	3	Chemistry 302	5
Natural Resources 350	1	Geography 101	3
Psychology 201	3	Natural Resources 350	1
*Elective	3	*Elective	3
	18		18

*Students planning to attend graduate school should elect French or German.

Senior Year

First Semester	Hours	Second Semester	Hours
Natural Resources 313	3	Natural Resources 401	3
Natural Resources 402	3	Natural Resources 450	1
Natural Resources 450	1	Natural Resources 451	3
Physics 201	4	Physics 202	4
Electives	3-6	Electives	3-6
	14-17		14-17

VEGETATION MANAGEMENT

Required Courses: Biology 202 and 306; Natural Resources 321, 401, 402, and 451.

Suggested Electives: Agriculture 208, 210, and 308; Biology 303, and 308; Natural Resources 201, 202, 400, and 403.

Junior Year

First Semester	Hours	Second Semester	Hours
Chemistry 301	5	Biology 202 or 306	3
Economics 201	3	Chemistry 302	5
Natural Resources 321	3	Geography 101	3
Natural Resources 350	1	Natural Resources 350	1
Psychology 201	3	Natural Resources 401	3
*Elective	3	*Elective	3
	18		18

*Students planning to attend graduate school should elect French or German.

Senior Year

First Semester	Hours	Second Semester	Hours
Natural Resources 402	3	Biology 202 or 306	3
Natural Resources 450	1	Natural Resources 450	1-4
Physics 201	4	Physics 202	4
Electives	6-9	Electives	3-6
	14-17		11-17

GENERAL RESOURCE MANAGEMENT

Required Courses: Biology 204 or 306; Natural Resources 321, 401, 402, 403, 450, and 451.

Suggested Electives: Agriculture 208, 210, and 308; Biology 202, 303, and 308; Natural Resources 201, 202, 311, and 312.

Junior Year

First Semester	Hours	Second Semester	Hours
Chemistry 301	5	Biology 204 or 306	3
Economics 201	3	Chemistry 302	5
Natural Resources 321	3	Geography 101	3
Natural Resources 350	1	Natural Resources 350	1
Psychology 201	3	Natural Resources 401	3
*Elective	3	*Elective	3
	<hr/> 18		<hr/> 18

*Students planning to attend graduate school should elect French or German.

Senior Year

First Semester	Hours	Second Semester	Hours
Natural Resources 402	3	Natural Resources 403	3
Natural Resources 450	1	Natural Resources 450	1
Physics 201	4	Natural Resources 451	3
Electives	6-9	Physics 202	4
	<hr/> 14-17	Electives	3-6
			<hr/> 14-17

ENVIRONMENTAL HEALTH

Required Courses: Biology 204, 305, and 402; Natural Resources 201, 202, 313, and 321.

Suggested Electives: Biology 200, 303, and 307; Natural Resources 401.

Junior Year

First Semester	Hours	Second Semester	Hours
Chemistry 301	5	Biology 204	3
Economics 201	3	Chemistry 302	5
Natural Resources 321	3	Geography 101	3
Natural Resources 350	1	Natural Resources 202	3
Psychology 201	3	Natural Resources 350	1
*Elective	3	*Elective	3
	<hr/> 18		<hr/> 18

*Students planning to attend graduate school should elect French or German.

Senior Year

First Semester	Hours	Second Semester	Hours
Biology 305	4	Biology 402	3
Natural Resources 201	3	Natural Resources 450	1
Natural Resources 313	3	Natural Resources 451	3
Natural Resources 453	1	Physics 202	4
Physics 201	4	Electives	3-6
Elective	3		
	<hr/> 18		<hr/> 14-17

AGRICULTURE

204. FRUIT PRODUCTION. Orchard management and fruit production. A general course covering tree and bush groups, their production and harvesting, packing, and marketing. Planning the young orchard, selecting varieties, putting out trees, developing the necessary skills for good orchard management. Two lectures and one laboratory period per week. Credit, three hours.

206. FEED AND CARE OF FARM LIVESTOCK. Farm animal feeds, their source, composition, characteristics, and feeding value. Recommended care and feeding practices for dairy and beef cattle, swine, sheep, and work-stock. The balancing of rations. Two lectures and one laboratory period per week. Credit, three hours.

207. LIVESTOCK PRODUCTION. A study of the market classes and grades of livestock and their production on the farm. A study of breed characteristics as they relate to market production with the chief objectives of the course centering around economy and production efficiency as they relate to selection, feeding, care, management, disease control, and marketing. One lecture and two laboratory periods per week. Credit, three hours.

208. SOILS AND FERTILIZERS. In this course a study is made of local soils, their types and structure with special emphasis on those factors which contribute to plant growth. Fertilizers and manure are studied from the standpoint of soil improvement and conservation as well as production of crops. A study of plant elements, their function and application. Two lectures and one laboratory period per week. Credit, three hours.

210. LANDSCAPING. Theory and practice of landscape design with special application to home grounds. Practice in drawing and estimating planting plans and differential leveling will also be emphasized. Grading propagations, plant combinations and uses in association with structures and gardens will be studied. Two lectures and one laboratory period per week. Credit, three hours.

301. FARM POULTRY. The practical applications of poultry husbandry are stressed in this course with particular reference to farm conditions. Breeds, selection, feeding, incubation, brooding, management, and marketing poultry and poultry products are included in this course. Two lectures and one laboratory period per week. Credit, three hours.

302. FARM POULTRY. A continuation of Farm Poultry, Agriculture 301. Special problems in the poultry industry including broiler production, developing breeding and laying flocks, maintaining accredited flocks, sanitation and health problems, marketing, butchering, poultry disease, and parasites are covered in this course. Two lectures and one laboratory period per week. Credit, three hours.

304. MARKETING AGRICULTURAL PRODUCTS. A study of the principles of marketing as they relate to the farmer. The organization and financial structure of farmers' cooperatives and related organizations. Market types, methods, and usages. Credit, three hours.

306. PRUNING AND SPRAYING. Pruning as a factor in orchard and fruit production. Methods and systems used. Use and care of pruning equipment. A study of spray materials and spray equipment. The control measures used for various orchard insects and diseases. One lecture and two laboratory periods per week. Credit, three hours.

308. PLANT PATHOLOGY. A companion course to Agriculture 306. Laboratory and field study of disease. Also collection and study of economic insects and their control. Two lectures and one laboratory period per week. Credit, three hours.

309. FARM MANAGEMENT. The problem of organizing, coordinating, and managing farm enterprises. A study of the methods used in farm business analysis together with farm accounting and bookkeeping. Credit, three hours.

310. VEGETABLE GARDENING. Fundamentals in the production of vegetable crops including varieties and types and preparation for market. Also insect and disease control measures. Two lectures and one laboratory period per week. Credit, three hours.

311. FARM MACHINERY. This course is designed to cover all types of farm machinery used in tillage, seeding, harvesting, and processing operations on the farm. A study of their construction, adjustment, repair and operation, as well as a comparison of features of efficiency in service and operation is made. Two laboratory periods per week. Credit, two hours.

313. DAIRYING. Methods in testing and analyzing dairy products. Creamery methods and practices. The care of dairy products on the farm; their manufacture and use. Care, management and feeding of the dairy herd; care and use of dairy equipment; meeting of standards of sanitation and health. Two lectures and one laboratory period per week. Credit, three hours.

315. FARM MECHANICS. This course is planned for beginners and presents applied information in the use of tools, equipment, and materials commonly used in repair, maintenance, and upkeep about the farm, farmstead, and home. Tool recognition, repair and adjustment, together with activities in woodworking, small construction, cold metal work, painting, glazing, leather work, and pipefitting are included. Two laboratory periods per week. Credit, two hours.

316. FARM MECHANICS. A continuation of Agriculture 315 covering brick and cement work, plastering, electrical wiring, motors, forging,

soldering, sheet metal work, and elementary welding and cutting. Two laboratory periods per week. Credit, two hours.

317. FIELD AND FORAGE CROPS. An introduction to the fundamental principles of crop production and the study of the more important field crops with emphasis on their importance, distribution, culture, types and varieties, and utility value. Two lectures and one laboratory period per week. Credit, three hours.

403. AGRICULTURE JUDGING. A study of farm animals, animal products, farm crops, and seeds from the standpoint of market and utility selection. The course is designed to develop skill in judging and placing. One lecture and one laboratory period per week. Credit, two hours.

405. ADVANCED FARM SHOP. A course devoted to perfecting skills in forms of activities: shop planning, drawing, plan reading, making of specifications and bills of materials, making job sheets and lesson plans. This course also includes laying out of foundations and building construction and is especially designed for prospective teachers of vocational agriculture. One lecture and two laboratory periods per week. Credit, three hours.

409. PRINCIPLES OF DAIRY TECHNOLOGY. A general survey course of study of the dairy products industry, with emphasis on Delaware, dealing with composition, properties, distribution, testing, processing, and handling of milk. Methods of ice cream, butter, cheese making. Pasteurization, bottling, and packaging. Two lectures and two laboratory periods per week. Credit, three hours.

414. SWINE PRODUCTION. The maintaining of the home meat supply for producing swine on the farm. Also the production of swine for market and breeding purposes. Selection of breeds and breeding stock, flushing, breeding, farrowing, weaning, fattening, butchering, curing, and marketing are included. One lecture and two laboratory periods per week. Credit, three hours.

416. POWER MACHINERY AND FARM UTILITIES. A continuation of Agriculture 311 dealing with farm tractors, trucks, motors, and farm operated power machines. Operation, adjustment, repair, and upkeep are factors studied. Two laboratory periods per week. Credit, two hours.

NATURAL RESOURCES

201. CLIMATOLOGY. A study of climatic controls: latitude, altitude, continentality, advection, sea currents, storm tracts, and shape of continents. Emphasis on climates of the United States. Offered in alternate fall semesters. Credit, three hours.

202. MICROCLIMATOLOGY. A study of the climate near the ground. Influence of vegetation, snow, fog, and topography on microclimates.

Agricultural and medical implications. Microclimate of cities. Offered in alternate spring semesters. Credit, three hours.

301. NATURAL RESOURCES AND PARK ADMINISTRATION. Practical and theoretical procedures employed in administering natural resources and parks including design of public parks. Offered in alternate years. Credit, three hours.

311. MAMMALOGY. The identification, classification, distribution, evolution, and life history of mammals. Prerequisite: Biology 201 or consent of instructor. Credit, three hours.

312. ORNITHOLOGY. A study of the field identification, ecology, and biology of the birds of the Del-Mar-Va Peninsula. The course includes weekly field trips. Credit, three hours.

313. LIMNOLOGY. A study of the biological, chemical, and physical factors in streams and lakes, and the effects of these factors upon water and upon aquatic organisms. Prerequisites: Biology 101-102 and Chemistry 101-102. Credit, three hours.

314. ICHTHYOLOGY. The identification, classification, distribution, evolution, and life history of fishes. Prerequisite: Biology 201 or consent of instructor. Credit, three hours.

321. BIOMETRICS. A study of the application of mathematics and statistics to the life sciences. One 3-hour seminar per week. Prerequisites: Biology 101-102 and one year of college mathematics. Offered in alternate fall semesters. Credit, three hours.

350. PROBLEMS IN NATURAL RESOURCES. An opportunity to pursue independent study and research. May be elected as early as sophomore year and for as many as 1-4 semesters. Credit, one to three hours.

400. INTERPRETING THE NATURAL ENVIRONMENT. An introduction to interpretive natural history, including the design and preparation of trails, exhibits, and interpretive literature. One lecture and one 3-hour seminar laboratory period per week. Credit, three hours.

401. SOIL AND WATER MANAGEMENT. A study of the theories and practices employed in managing soil and water. Coordination of soil and water uses to improve productivity and to prevent erosion and depletion. Effects of pesticides, pollution, and drought. Two 3-hour seminar laboratories. Offered in alternate spring semesters. Credit, three hours.

402. VEGETATION MANAGEMENT. A study of the theories and applications of plant ecology pertaining to the management of natural or semi-natural vegetation. Effects on vegetation of pesticides, fire, and mechanical manipulation. Consideration is given to management of right-of-way vegetation. Two 3-hour seminar laboratories. Offered in

alternate fall semesters. Prerequisites: Biology 210, Natural Resources 401, or consent of instructor. Credit, three hours.

403. WILDLIFE MANAGEMENT. A study of the theories and applications of animal ecology pertaining to the management of natural populations and communities. Life history studies of selected wildlife species. Relationships of wildlife to ecosystems, including effects of pollution, pesticides, and habitat conditions. Two 3-hour seminar laboratories offered in alternate spring semesters. Prerequisites: Biology 210, Natural Resources 401 and 402, or consent of instructor. Credit, three hours.

404. FISHERIES SCIENCE. A study of the environmental and biological factors related to the physiology and behavior of fishes. Prerequisites: Biology 205 and Natural Resources 321. Offered in spring semesters. Credit, three hours.

405. PRINCIPLES OF FISHERIES MANAGEMENT. A study of the capacities of aquatic environments required by fishes with emphasis on management problems typical of selected environments. Prerequisites: Biology 205; Natural Resources 314 and 404. Offered in spring semesters. Credit, three hours.

441-442. SENIOR RESEARCH PROJECT. An opportunity to undertake a research project in Natural Resources. Open to students with a 3.25 cumulative average in Natural Resources and overall cumulative average of 2.75. Prerequisite: Senior standing in Natural Resources. Credit, six hours.

451. NATURAL RESOURCES ECOSYSTEMS. A senior level philosophical course, integrating concepts in social, physical, and biological sciences with an introduction to the quantitative synthesis of ecological systems. The course is designed to provide the specialist with a total view of resource use and management. Prerequisites: Biology 205 and Natural Resources 321. Offered in spring semesters. Credit, three hours.

THE DEPARTMENT OF ART EDUCATION

The objectives in the major program of the Art Education Department are to prepare students, showing talents and interests in art, for teaching the subject in elementary and secondary schools; to prepare majors, interested in advanced study, with a substantial background for such study; and to provide opportunities for in-service teachers to participate in varied creative experiences that will broaden their backgrounds for teaching.

All major students must submit one piece of work in each medium, to be retained by the department, if it so desires, for its permanent collections.

CURRICULUM IN ART EDUCATION

Freshman Year

First Semester	Hours	Second Semester	Hours
English 101	3	English 102	3
Education 101	1	Education 204	3
History 101	3	History 102	3
Physical Education 100	1	Physical Education Elective	
Biology 101	4	(100 Level)	1
Health Education 101	2	Art 102	2
Art 203	2	Art 101	2
		Biology 102	4
	16		18

Sophomore Year

First Semester	Hours	Second Semester	Hours
Mathematics 101	3	Mathematics 102	3
Humanities 201	4	Humanities 202	4
Physical Education Elective		Physical Education Elective	
(100 Level)	1	(100 Level)	1
History 104	1	English 200	2
Psychology 201	3	Psychology 204	3
Art 201	2	Art 203	2
Elective (Foreign Language		Elective (Foreign Language	
or Philosophy)	3	or Philosophy)	3
	17		18

Junior Year

First Semester	Hours	Second Semester	Hours
Psychology 302	3	Psychology 303	3
Art Education 341	3	Art Education 342	3
Art 301	3	Art 302	3
Art 305	2	Art 304	3
Art 308	3	Art 309	3
Elective (Economics, Government,		Elective	
History or Sociology)	3		3
	17		18

Senior Year

First Semester	Hours	Second Semester	Hours
Education 411	1	Education 412	8
Education 405	3	Art 404 (BLOCKED)	3
Art 303	2	Art 408 (BLOCKED)	3
Art 401	3	Elective	2
Art 403	3		
Art 402	2		
Psychology 305	3		
	17		16

ART EDUCATION

101. ART APPRECIATION. Designed to help students develop an interest in the visual arts, and understand the nature of art. Provides a means by which students can understand the basis for evaluation and analyzing art. Prints, slides, and film strips are used for understanding processes and problems involved in art forms. Credit, two hours.

102. FUNDAMENTALS OF DRAWING AND DESIGN. Designed to help the student develop an ability in working with various art media such as charcoal, crayons, pencil, water color, pastel, etc. Exercises in color theory, drawing, still life, outdoor sketching, perspective, and lettering. Credit, two hours.

102A. ART IN ELEMENTARY EDUCATION I. Designed to orientate the prospective nursery, kindergarten, and elementary teacher to art through creative experiences in media suited to the particular age level. The philosophy and appropriate goals of art instruction are considered along with practice. Credit, two hours.

201. ART IN ELEMENTARY EDUCATION II (Crafts). Introductory laboratory experiences in construction processes with various art media. Particular reference is given to their appropriateness for teaching in the nursery, kindergarten, and elementary school. Credit, two hours.

203. ELEMENTS OF DESIGN. Integration of the structural elements of two and three dimensional design and principles of color as a basis for creative work in the visual arts. Credit, two hours.

204. DRAWING AND COMPOSITION. Offers experiences in organizing visual forms through the use of pencil, charcoal, crayons, and other drawing media. Credit, two hours.

301. MODELING AND SCULPTURE. A beginning course designed for students unfamiliar with clay, paper mache, plaster and other materials and their possibilities. Emphasis is placed on design in three dimensional sculpture. Originality in form-modeling and sculpture techniques are stressed. Credit, three hours.

302. CERAMICS AND POTTERY. Complete pottery processes are covered. Art 301 is a prerequisite for Art Education majors. Credit, three hours.

303. ADVERTISING ART AND LETTERING. A course designed mainly for elementary and high school teachers. Materials consist of various pens, brushes, crayons, with their use in designing layouts, cards, booklets, and posters. Credit, two hours.

304. DRAWING AND PAINTING. Planned to develop the ability of the student in creative expression using various media. Credit, three hours.

305. INTERIOR DESIGN. A study in the problems of furnishing and decorating the home, with relationship to the environment. Emphasis upon the practical, as well as upon the artistic methods of improving it. Exercises in color theory, color harmonies, traditional and contemporary period styles in furniture are presented. Credit, two hours.

306. ENAMELING AND METALWORK. Offers instruction and practice in the fundamentals of copper enameling and related metalwork. Credit, two hours.

308. ART HISTORY I. Deals with development of art from prehistoric times to the Italian Renaissance. Various aspects considered are painting, architecture, sculpture, and the minor arts. Credit, three hours.

309. ART HISTORY II. Deals with development of art from the Italian Renaissance to the present. Various aspects considered are painting,

architecture, sculpture, and the minor arts. Prerequisite, Art 308. Credit, three hours.

341. METHODS AND MATERIALS FOR ELEMENTARY ART TEACHERS. This course is designed to give prospective elementary art teachers current methods in art education. Demonstrations of various approaches and experiences in handling materials used in teaching art in the elementary school. Credit, three hours.

342. METHODS AND MATERIALS FOR SECONDARY ART TEACHERS. This course is designed to give prospective secondary art teachers current methods in art education. Demonstrations of various approaches and experiences in handling materials used in teaching art in the secondary school. Credit, three hours.

401. GRAPHICS. Introduces students to various methods of the graphic arts. Processes such as wood cuts, linoleum cuts, etching, engraving, dry-point, and silk screen will be used. Emphasis on techniques and processes. Credit, three hours.

402. WATER COLOR PAINTING. Includes various methods of handling water color. Experimentation with techniques, development of skills, discussion of methods and styles of water colorists. Organization and composition will be stressed. Credit, two hours.

403. FIGURE DRAWING AND PAINTING. Designed to help the student develop an ability in drawing the human figure and in understanding the structure of the human body. Prerequisite: Art 204. Credit, two hours.

404. MARIONETTES, MASKS AND SHADOWS. Designed for students who wish to become teachers or recreation leaders. This course covers construction and manipulation of hand puppets and marionettes, stage sets and lighting effects, stage construction, the construction and use of shadow puppets, the writing of puppet plays and the staging of the puppet show, the making of masks and their use in schools. Credit, three hours.

408. ADVANCED OIL PAINTING. Course will give further experience in the principles of oil painting and oils as a media of expression with emphasis on development of painting skills. A variety of modes of expression will be encouraged. Prerequisites: Art 204 and 403. Credit, three hours.

THE DEPARTMENT OF BIOLOGY

The objectives of the Biology Department are to develop in the student an understanding of, a respect for and some facility in the application of the clear and unbiased method of thinking that should characterize the intelligent individual; to develop in the student an appreciation for and some understanding of the organic world; to familiarize the

student with biological principles that a modern citizen needs if he is to make an intelligent and effective adjustment to the demands of life.

Objectives applicable to majors and minors are: to furnish the student the background necessary to become a successful secondary school biology teacher and to develop within the student an educational background for later specialized work in graduate and professional schools.

For a major in Biology, thirty to thirty-three hours are required.

For a minor in Biology, nineteen hours distributed as follows are required: Biology 101, 102, 303 and eight hours of electives in Biology.

CURRICULUM IN BIOLOGY (NON-TEACHING)

(For students planning to pursue studies in medicine, dentistry, graduate biology, laboratory technology and related areas. Students following this curriculum are advised to elect courses in science or mathematics.)

Freshman Year

First Semester	Hours	Second Semester	Hours
English 101	3	English 102	3
Education 101	1	History 104	1
History 101	3	History 102	3
Physical Education 100	1	Physical Education Elective	
Biology 101	4	(100 Level)	1
Mathematics 101	3	Biology 102	4
		Mathematics 102	3
		Health Education 101	2
	15		17

Sophomore Year

First Semester	Hours	Second Semester	Hours
Humanities 201	4	Humanities 202	4
Chemistry 101	4	Chemistry 102	4
German 101 or French 101	3	German 102 or French 102	3
Biology 200	3	Biology 201	4
Physical Education Elective		Physical Education Elective	
(100 Level)	1	(100 Level)	1
	15		16

Junior Year

First Semester	Hours	Second Semester	Hours
Political Science 103	3	English 200	2
Psychology 201	3	Biology 204	3
Chemistry 301	5	Chemistry 302	5
German 201 or French 201	3	German 202 or French 202	3
Biology 304	4	Electives	3-4
	18		16-17

Senior Year

First Semester	Hours	Second Semester	Hours
Biology 305	4	Biology 303	3
Physics 201	4	Physics 202	4
Biology 401	4	Electives	4-6
Electives	3-5		
	15-17		11-13

CURRICULUM IN BIOLOGY FOR A TEACHING MAJOR

Freshman Year

First Semester	Hours	Second Semester	Hours
English 101	3	English 102	3
Education 101	1	History 104	1
History 101	3	History 102	3
Biology 101	4	Biology 102	4
Mathematics 101	3	Mathematics 102	3
Physical Education 100	1	Health Education 101	2
		Physical Education Elective (100 Level)	1
	15		17

Sophomore Year

First Semester	Hours	Second Semester	Hours
Humanities 201	4	Humanities 202	4
Chemistry 101	4	Chemistry 102	4
French 101 or German 101	3	French 102 or German 102	3
Biology 200	3	Biology 202 or 306	3
Psychology 201	3	Education 204	3
Physical Education Elective (100 Level)	1	Physical Education Elective (100 Level)	1
	18		19

Junior Year

First Semester	Hours	Second Semester	Hours
Political Science 103	3	Psychology 204	3
Psychology 305	3	Psychology 302	3
Physics 201	4	Physics 202	4
French 201 or German 201	3	French 202 or German 202	3
English 200	2	Biology 204	3
Biology 205	3		
	18		16

Senior Year

First Semester	Hours	Second Semester	Hours
Education 403	3	Education 412	8
Education 405	3	Biology 303	3
Education 411	1	Electives	3-6
Biology 305	4		
Biology 401	4		
	15		14-17

(With the consent of his adviser, any biology major may substitute one biology elective for one required course in biology except for Biology 101-102 and 303. However, for a teaching major, two of the following must be taken: Biolgy 202, 305 and 306.)

CURRICULUM IN BIOLOGY (EMPHASIS IN BOTANY)

Required Courses: Biology 101-102, 202, 205, 303, 306, 321, and 499.
Suggested Electives: (9 or more additional hours required) Agriculture 308; Biology 301, 305, 308, 313, 402, 451-452; Natural Resources 202, 402, and 450.

Freshman Year

First Semester	Hours	Second Semester	Hours
Biology 101	4	Biology 102	4
Education 101	1	Health Education 101	2
English 101	3	English 102	3
History 101	3	History 102	3
Mathematics 101 or 201	3	Mathematics 104 or 202	3
Physical Education 100	1	Physical Education Elective (100 Level)	1
	15		16

Sophomore Year

First Semester	Hours	Second Semester	Hours
Biology 205	3	Biology 303	3
Chemistry 101	4	Chemistry 102	4
German 101 or French 101	3	German 102 or French 102	3
Humanities 201	4	Humanities 201	4
Elective (General Education)	3	Elective (General Education)	3
Physical Education Elective (100 Level)	1	Physical Education Elective (100 Level)	1
	18		18

Junior Year

First Semester	Hours	Second Semester	Hours
Biology 301	1-3	Biology 202 or 306	3
Biology 321	3	Chemistry 302	5
Chemistry 301	5	English 200	2
German 201 or French 201	3	German 202 or French 202	3
History 104	1	Elective (Social Science 201)	3
Psychology 201	3	Elective	0-3
	16-18		16-19

Senior Year

First Semester	Hours	Second Semester	Hours
Biology 499	1	Biology 202 or 306	3
Physics 201	4	Biology 499	1
Electives	9-12	Physics 202	4
	14-17	Electives	6-9
			14-17

BIOLOGY

101-102. GENERAL BIOLOGY. An introduction to the study of life with emphasis on basic concepts: energy relationships, cell biology, physiology, genetics, development, ecology, and evolution. Also, some attention is given to taxonomy and morphology of organisms. Two lectures and one 3-hour laboratory period each week with a 1-hour recitation period each week. Must be taken in sequence. Credit, eight hours.

200. INVERTEBRATE ZOOLOGY. This course is designed to introduce the student to the major invertebrate phyla. Attention is given to taxonomy, morphology, physiology, ecology and evolution. Two lectures and one 2-hour laboratory period per week. Prerequisites: Biolgy 101-102. Credit, three hours.

201. COMPARATIVE VERTEBRATE ANATOMY. A comparative study of the vertebrate group with emphasis upon structure, development, and evolution of the organs and organ systems. Two lectures and two laboratory periods per week. Prerequisite: Biology 101. Credit, four hours.

202. SYSTEMATIC BOTANY. The study of plant taxonomy with emphasis on vascular plants of the Del-Mar-Va Peninsula. Two 3-hour

seminar laboratories. Offered in alternate spring semesters. Prerequisites: Biology 101-102 or consent of instructor. Credit, three hours.

204. HUMAN PHYSIOLOGY. Elementary principles of physiology with emphasis upon the function of the human organs and organ systems. Two lectures and one 2-hour laboratory period per week. Prerequisites: Biology 101-102. Credit, three hours.

205. ECOLOGY. The study of organisms in relation to their environment. Two lectures and one 150-minute laboratory period per week. Offered in alternate fall semesters. Prerequisites: Biology 101-102 or consent of instructor. Credit, three hours.

301. PROBLEMS IN BIOLOGY. An opportunity to pursue independent study and research. May be elected in any semester with consent of instructor. Credit, one to three hours per semester.

303. GENETICS. A study of the fundamental principles of inheritance and their application to plants and animals. Two lectures and one laboratory period per week. Prerequisites: Biology 101-102. Credit, three hours.

304. HISTORY AND MICROTECHNIQUES. A detailed study of the microscopic anatomy of vertebrate tissues and organs including laboratory practice in the preparation of histological slides. Two lectures and two laboratory periods per week. Prerequisites: Biology 201 and 204. Credit, four hours.

305. BACTERIOLOGY. A study of the taxonomy, physiology, morphology and cultivation of bacteria with special emphasis on the relation of bacteria to the health of man, animals and plants. Two lectures and two laboratory periods per week. Prerequisites: Biology 101-102. Credit, four hours.

306. PLANT PHYSIOLOGY. A survey of modern plant physiology, including the study of photosynthesis, metabolism of organic materials, water relations, inorganic nutrition, plant growth regulators, and plant movements. Two lectures and one 150-minute laboratory per week. Offered in alternate spring semesters. Prerequisites: Biology 101-102. Credit, three hours.

307. PARASITOLOGY. An introduction to the general principles of animal parasitism with emphasis upon pathogenic parasites especially those found in association with man. Two lectures and one 2-hour laboratory period per week. Credit, three hours.

308. BIOGEOGRAPHY. A study of the spatial distribution of organisms and the factors responsible for the distribution, including genetic, anthropologic, and social implications. Two 3-hour seminar laboratories. Offered in alternate fall semesters. Prerequisites: Biology 101-102 or consent of instructor. Credit, three hours.

311. MAMMALOLOGY. The identification, classification, distribution, evolution, and life history of mammals. Prerequisite: Biology 201 or consent of instructor. Credit, three hours.

312. ORNITHOLOGY. A study of the field identification, ecology, and biology of the birds of the Del-Mar-Va Peninsula. The course includes weekly field trips. Credit, three hours.

313. LIMNOLOGY. A study of the biological, chemical, and physical factors in streams and lakes and the effects of these factors upon water and aquatic organisms. Prerequisites: Biology 101-102 and Chemistry 101-102. Credit, three hours.

314. ICHTHYOLOGY. The identification, classification, distribution, evolution, and life history of fishes. Prerequisite: Biology 201 or consent of instructor. Credit, three hours.

321. BIOMETRICS. A study of the application of mathematics and statistics to the life sciences. One 3-hour seminar per week. Prerequisites: Biology 101-102 and one year of college mathematics. Credit, three hours. (Offered in alternate fall semesters).

400. METHODS AND MATERIALS FOR BIOLOGY TEACHERS. A survey of the methods, materials, and laboratory skills used in teaching biology. Emphasis is placed on teaching units produced by national curriculum study groups. One lecture and one 3-hour seminar laboratory period per week. Prerequisite: Junior standing in biology. Credit, three hours. (Offered in fall semesters.)

401. EMBRYOLOGY. A study of embryonic development of the frog, chick, pig and man. Two lectures and two laboratory periods per week. Prerequisite: Biology 201. Credit, four hours.

402. RADIATION BIOLOGY. An introduction to the physical basis of radioactivity and its effects on biological matter. Special emphasis is given to genetic effects of radiation. Two lectures and one laboratory period per week. Prerequisites: Biology 101-102 and Chemistry 101-102. Credit, three hours.

451-452. SENIOR RESEARCH PROJECT. An opportunity to undertake a research project in biology. A thesis is required. Open to students with a 3.25 cumulative average in biology and an overall cumulative average of 2.75. Prerequisite: Junior standing in biology. Credit, three hours. (Offered in fall semesters.)

499. BIOLOGICAL SEMINAR. Selected topics on the history and development of biological concepts are treated by oral reports and discussions. Special attention is given to topics of current interest. One hour per week. Prerequisites: Biology 101-102. Credit, one hour per semester.

THE DEPARTMENT OF CHEMISTRY

The Department of Chemistry strives to train students to use the scientific method of inquiry; to provide a sound foundation in chemistry for students wishing to concentrate in the field; to provide a proper sequence of courses for those planning to teach chemistry in the secondary school or planning to enter dental, medical or other professional schools; to prepare students for careers in chemistry and for graduate study; and to meet the needs of students wishing to secure a knowledge of the fundamental principles of chemistry.

For a major in Chemistry, forty-six hours distributed as follows are required: Chemistry 101-102, 201, 301-302, 303-304, 306, 308, 407-408 and six hours of electives (three in chemistry and three in advanced mathematics or physics or six in chemistry).

For a teaching major in Chemistry, thirty-four hours distributed as follows are required: Chemistry 101-102, 201, 301-302, 303-304 and 308.

For a minor in Chemistry, twenty-two hours distributed as follows are required: Chemistry 101-102, 201 and 301-302.

All majors in chemistry are required to affiliate with the Delaware State College Chapter of American Chemical Society Student Affiliates during their freshman year and to maintain their affiliation as long as they are registered in the Department.

CURRICULUM IN CHEMISTRY

Freshman Year

First Semester	Hours	Second Semester	Hours
Chemistry 101	4	Chemistry 102	4
Education 101	1	English 102	3
English 101	3	German 102	3
German 101	3	Health Education 101	2
History 101	3	History 102	3
Mathematics 101	3	Mathematics 104	3
Physical Education 100	1	Physical Education Elective (100 Level)	1
	18		19

Sophomore Year

First Semester	Hours	Second Semester	Hours
Chemistry 301	5	Chemistry 302	5
German 201	3	German 202	3
Mathematics 201	3	Mathematics 202	3
Physical Education Elective (100 Level)	1	Physical Education Elective (100 Level)	1
Physics 201	4	Physics 202	4
	16		16

Junior Year

First Semester	Hours	Second Semester	Hours
Biology 101	4	Biology 102	4
Chemistry 201	4	Chemistry 304	4
Chemistry 303	4	Chemistry 306	4
Humanities 201	4	Humanities 202	4
Mathematics 205	3	Mathematics 206	3
	19		19

Senior Year

First Semester	Hours	Second Semester	Hours
Chemistry 308	4	Chemistry 408	1
Chemistry 407	1	Elective (Chemistry)	3
English 200	2	Electives	0-12
History 104	1		
Psychology 201	3		
Elective (Chemistry, Mathematics or Physics)	3		
Elective (Social Science 201)	3		
	17		4-16

CURRICULUM IN CHEMISTRY FOR A TEACHING MAJOR

Freshman Year

First Semester	Hours	Second Semester	Hours
Chemistry 101	4	Chemistry 102	4
Education 101	1	English 102	3
English 101	3	German 102	3
German 101	3	Health Education 101	2
History 101	3	History 102	3
Mathematics 101	3	Mathematics 104	3
Physical Education 100	1	Physical Education Elective (100 Level)	1
	18		19

Sophomore Year

First Semester	Hours	Second Semester	Hours
Chemistry 301	5	Chemistry 302	5
English 200	2	Education 204	3
German 201	3	German 202	3
Mathematics 201	3	History 104	1
Physics 201	4	Mathematics 202	3
Psychology 201	3	Physical Education Elective (100 Level)	1
	20	Physics 202	4
			20

Junior Year

First Semester	Hours	Second Semester	Hours
Biology 101	4	Biology 102	4
Chemistry 201	4	Chemistry 304	4
Chemistry 303	4	Humanities 202	4
Humanities 201	4	Mathematics 206	3
Mathematics 205	3	Physical Education Elective (100 Level)	1
Elective (Social Science 201)	3	Psychology 204	3
	22	Psychology 302	3
			22

Senior Year

First Semester	Hours	Second Semester	Hours
Chemistry 308	4	Education 412	8
Education 312	3	Electives	0-6
Education 405	3		
Education 417	3		
Education 411	1		
Psychology 303	3		
Psychology 305	3		
	20		8-14

CHEMISTRY

101-102. GENERAL CHEMISTRY AND QUALITATIVE ANALYSIS. A course covering the fundamental principles, laws and theories of chemistry; the preparation, properties and uses of the more important elements and compounds; and qualitative analysis dealing with the separation and identification of the cations and anions. Three lectures and one 150-minute laboratory period per week. Corequisites: Mathematics 101 and 102 or 104. Credit, eight hours.

103-104. INTRODUCTORY CHEMISTRY. A general course in fundamental chemical principles; the chemistry of the most important metals and nonmetals; and the nomenclature, properties and reactions of the simpler classes of organic compounds. Designed primarily for students in agricultural education and home economics. Three lectures and one 150-minute laboratory period per week. Corequisites: Mathematics 101 and 102 or 104. Credit, eight hours.

201. ELEMENTARY QUANTITATIVE ANALYSIS. A course covering the essentials of volumetric and gravimetric analysis; theory and practice of analytical separation; chemical equilibrium; and a survey of analytical instrumentation. Two lectures and two 150-minute laboratory periods per week. Prerequisites: Chemistry 101-102; Mathematics 101 and 102 or 104. Credit, four hours.

202. GLASSBLOWING. Types of glass and their properties, principles of glass working. Practice in cutting, bending, drawing and flanging tubing; construction of typical apparatus. One 150-minute laboratory period per week. Credit, one hour.

301-302. ORGANIC CHEMISTRY. A study of functional group characteristics, preparations, reactions and interrelationships of the various classes of organic compounds; theory and mechanism associated with organic reactions; heterocyclic compounds; complex substances; and problems in synthesis. Laboratory practice in the synthesis of typical aliphatic and aromatic compounds, their purification and a study of their properties. Three lectures and two 150-minute laboratory periods per week. Prerequisites: Chemistry 101-102. Credit, ten hours.

303-304. PHYSICAL CHEMISTRY. A mathematical treatment of the fundamentals of theoretical chemistry with emphasis on thermochemistry and thermodynamics; chemical equilibrium; chemical kinetics; electrochemistry; atomic and molecular structure; surface and photochemistry. Quantitative measurements of phenomena of chemical interest and the application of chemical principles to their interpretation. Outside reading and the careful preparation of laboratory reports are required. Three lectures and one 150-minute laboratory period per week. Prerequisites: Chemistry 301-302; Mathematics 201-202; Physics 201-202. Corequisites: Chemistry 201; Mathematics 205-206. Credit, eight hours.

306. INSTRUMENTAL METHODS OF ANALYSIS. An introduction to instrumentation in analytical chemistry, with theoretical and practical application to spectrophotometry; spectrography; nephelometry; X-ray methods; potentiometry; conductometry; polarography; chromatographic, ion exchange and radiochemical methods. Two lectures and two 150-minute laboratory periods per week. Prerequisites: Chemistry 201 and 303. Corequisite: Chemistry 304. Credit, four hours.

308. INORGANIC CHEMISTRY. An introduction to the concepts and chemical systems of inorganic chemistry, including the periodic table, atomic structure, bonding, acid-base theories, coordination compounds, nonaqueous solvent systems, and recent advances in inorganic chemistry. Laboratory practice in the preparation and purification of a number of inorganic compounds requiring special techniques. Three lectures and one 150-minute laboratory period per week. Prerequisites: Chemistry 303-304. Credit, four hours.

401. ORGANIC QUALITATIVE ANALYSIS. The detection and identification of the more important groups and compounds; the detection, separation and identification of the components of mixtures. Emphasis is placed on modern techniques of organic analysis. Two lectures and one 150-minute laboratory period per week. Prerequisites: Chemistry 301-302 and 306. Credit, three hours.

402. ADVANCED ORGANIC CHEMISTRY. An advanced course in the fundamental principles of organic chemistry including a critical discussion of systems of single and multiple bonds, stereochemistry, optical and geometric isomerism, ring systems, tautomerism, molecular rearrangements and condensations, and free radicals. Laboratory practice in the synthesis of selected organic compounds using advanced preparative methods. Two lectures and one 150-minute laboratory period per week. Prerequisites: Chemistry 301-302 and 306. Credit, three hours.

403. INTRODUCTORY BIOCHEMISTRY. An introduction to modern concepts of biochemistry and biochemical research technology. A study of the chemistry of biologically important organic compounds, enzymes, and the interrelations that exist among carbon, nitrogen and the energetics of metabolism. Familiarization with typical research problems and modern research techniques. Three lectures and one 150-minute laboratory period per week. Prerequisites: Chemistry 101-102, 201 and 301-302. Credit, four hours.

405. INDEPENDENT STUDY AND RESEARCH. Original investigation carried on by the student under the guidance of an assigned departmental staff member. The work includes a careful search of the literature and a planned procedure of laboratory experimentation. Three 150-minute laboratory periods per week. Prerequisites: Chemistry 301-302, 303-304 and 306. Credit, three hours.

407-408. **SEMINAR IN CHEMISTRY.** A discussion of modern chemical topics and the presentation of papers based upon the recent literature. One lecture-recitation per week. Credit, two hours.

THE DEPARTMENT OF ECONOMICS AND BUSINESS ADMINISTRATION

The objectives of the Department of Economics and Business Administration are to provide the proper foundation for graduate study in economics and business; to prepare students for careers in business, industry, or the government; to prepare teachers of business subjects in secondary schools; and to train students in specific skills. Students in this Department can select one of five curricula for a major: Curriculum in Economics, Accounting Curriculum in Business Administration, General Curriculum in Business Administration, Curriculum in Business Education, or Curriculum in Secretarial Science.

CURRICULUM IN ECONOMICS

Freshman Year

First Semester	Hours	Second Semester	Hours
English 101	3	English 102	3
History 101	3	History 102	3
Biology 101 or Chemistry 101	4	Biology 102 or Chemistry 102	4
Foreign Language 101	3	Foreign Language 102	3
Education 101	1	Business 108	3
Health Education 101	2	Physical Education Elective	
Physical Education 100	1	(100 Level)	1
	<hr/> 17		<hr/> 17

Sophomore Year

First Semester	Hours	Second Semester	Hours
Humanities 201	4	Humanities 202	4
Economics 201	3	Economics 202	3
Business 205	3	Foreign Language 202	3
Foreign Language 201	3	Mathematics 102 or 104	3
Mathematics 101	3	Physical Education Elective	
Physical Education Elective		(100 Level)	1
(100 Level)	1	Elective	3
	<hr/> 17		<hr/> 17

Junior Year

First Semester	Hours	Second Semester	Hours
Economics 301	3	Economics 312	3
Economics 307	3	Economics 308	3
Psychology 201	3	Economics 314	3
English 200	2	History 104	1
Electives	3	Electives	6
	<hr/> 14		<hr/> 16

Senior Year

First Semester	Hours	Second Semester	Hours
Economics 313	3	Economics 418	3
Economics 411	3	Economics 414	3
Economics 421	3	Electives	9
Electives	6		
	<hr/> 15		<hr/> 15

ECONOMICS

201. **PRINCIPLES OF ECONOMICS.** A general introductory course about basic economic processes and principles and their operation in the economic order. Credit, three hours.

202. **ECONOMIC PROBLEMS.** A course involving the study of selected economic problems against a background of principles developed in the introductory course. Prerequisite: Economics 201. Credit, three hours.

301. **INTERMEDIATE ECONOMIC THEORY.** Theory of relative prices and income distribution under perfect and imperfect competition. Prerequisite: Economics 201. Credit, three hours.

307. **INTRODUCTORY STATISTICS.** An elementary course which deals with measures of central tendency, distribution, probability, relationship, and other techniques used in the manipulation and interpretation of quantitative data. Credit, three hours.

308. **ADVANCED STATISTICS.** Time series; methods of isolating trend, season and cyclical fluctuations; index number theory, construction, and application; correlation; applications of statistical technique to economic and business problems. Prerequisite: Economics 307. Credit, three hours.

312. **HISTORY OF ECONOMIC THOUGHT I (EARLY PERIOD).** Social economic theories from the Greek philosophers to 18th century physiocrats examined in relation to dominant and receding institutions. Credit, three hours.

313. **HISTORY OF ECONOMIC THOUGHT II (MODERN PERIOD).** Economic problems and their solutions from the physiocrats and classicists to the marginal utility and general equilibrium schools, including institutional and socialist approaches. Credit, three hours.

314. **CONTEMPORARY ECONOMIC PROBLEMS.** An introduction to economic reasoning; an analysis of the problem of economic growth, economic security and stability, agricultural prices, and conservation of natural resources. Prerequisites: Economics 201 and Economics 202. Credit, three hours.

411. **LABOR PROBLEMS.** Major labor problems covering hours of work, wages, unemployment, the functioning of labor organizations, labor legislation, and the courts. Prerequisites: Economics 201 or permission of the instructor. Credit, three hours.

414. **MONEY AND BANKING.** A study of the principles of money and banking in the United States with reference to the functions of money and credit. Emphasis on the functions of commercial banks, the Federal Reserve System, and other financial institutions. Prerequisite: Economics 201. Credit, three hours.

418. **BUSINESS CYCLES.** A study of factors determining fluctuations in business activity, employment, price levels, and the relation of these changes to the management of the business firm. Prerequisite: Economics 201. Credit, three hours.

421. **COMPARATIVE ECONOMIC SYSTEMS.** Principles governing pricing, income, distribution, productivity, investment, economic stability, and growth under capitalism, democratic socialism, and totalitarian socialism. Prerequisites: Economics 201 and Economics 202. Credit, three hours.

BUSINESS ADMINISTRATION

ACCOUNTING CURRICULUM IN BUSINESS ADMINISTRATION

Freshman Year

First Semester	Hours	Second Semester	Hours
English 101	3	English 102	3
History 101	3	History 102	3
Biology 101 or Chemistry 101	4	Biology 102 or Chemistry 102	4
Foreign Language 101	3	Foreign Language 102	3
Education 101	1	Physical Education Elective (100 Level)	1
Health Education 101	2	Business 108	3
Physical Education 100	1		
	17		17

Sophomore Year

First Semester	Hours	Second Semester	Hours
Humanities 201	4	Humanities 202	4
Economics 201	3	Economics 202	3
Business 205	3	Business 206	3
Foreign Language 201	3	Foreign Language 202	3
Mathematics 101	3	Mathematics 102 or 104	3
Physical Education Elective (100 Level)	1	Physical Education Elective (100 Level)	1
	17	History 104	1
			18

Junior Year

First Semester	Hours	Second Semester	Hours
Business 305	3	Business 306	3
Business 401	3	Business 402	3
Psychology 201	3	Economics 414	3
Business 301	3	Electives	6
Economics 307	3		
English 200	2		
	17		15

Senior Year

First Semester	Hours	Second Semester	Hours
Business 409	3	Business 410	3
Business 405	3	Business 412	3
Business 411	3	Business 416	3
Business 303	3	Electives	6
Electives	3		
	15		15

GENERAL CURRICULUM IN BUSINESS ADMINISTRATION

Freshman Year

First Semester	Hours	Second Semester	Hours
English 101	3	English 102	3
History 101	3	History 102	3
Biology 101 or Chemistry 101	4	Biology 102 or Chemistry 102	4
Physical Education 100	1	Physical Education Elective (100 Level)	1
Foreign Language 101	3	Foreign Language 102	3
Education 101	1	Business 108	3
Health Education 101	2		
	17		17

Sophomore Year

First Semester	Hours	Second Semester	Hours
Humanities 201	4	Humanities 202	4
Economics 201	3	Economics 202	3
Business 205	3	Business 206	3
Foreign Language 201	3	Foreign Language 202	3
Mathematics 101	3	Mathematics 102 or 104	3
Physical Education Elective (100 Level)	1	Physical Education Elective (100 Level)	1
	17	History 104	1
			18

Junior Year

First Semester	Hours	Second Semester	Hours
Business 305	3	Business 306	3
Business 303	3	Business 310	3
Psychology 201	3	Economics 414	3
Business 301	3	Electives	6
Economics 307	3		
English 200	2		
	17		15

Senior Year

First Semester	Hours	Second Semester	Hours
Business 401	3	Business 402	3
Business 405	3	Business 416	3
Electives	9	Electives	9
	15		15

BUSINESS EDUCATION (Teaching Curriculum in Business) CURRICULUM IN BUSINESS EDUCATION

Freshman Year

First Semester	Hours	Second Semester	Hours
English 101	3	English 102	3
Biology 101 or Chemistry 101	4	Biology 102 or Chemistry 102	4
Health Education 101	2	History 104	1
Education 101	1	Geography 102	3
Secretarial Science 101	2	Secretarial Science 102	2
History 101	3	History 102	3
Physical Education 100	1	Physical Education Elective (100 Level)	1
	16		17

Sophomore Year

First Semester	Hours	Second Semester	Hours
Secretarial Science 201	2	Secretarial Science 202	2
Business 205	3	Business 206	3
Secretarial Science 103	3	Secretarial Science 104	3
Mathematics 101	3	Mathematics 102 or 104	3
Business 211	3	Business 108	3
Humanities 201	4	Humanities 202	4
Physical Education 100	1	Physical Education Elective (100 Level)	1
	19		19

Junior Year

First Semester	Hours	Second Semester	Hours
Business 305	3	Education 204	3
English 200	2	Psychology 204	3
Secretarial Science 203	3	Secretarial Science 204	3
Economics 201	3	Business 306	3
Psychology 201	3	Secretarial Science 302	3
Music 101	2	Psychology 302	3
Art 101 or 102	2		
	18		18

Senior Year

First Semester	Hours	Second Semester	Hours
Business 401	3	Education 412	3
Business 301	3	Business 328	3
Business 327	3	Secretarial Science 402	3
Secretarial Science 401	3		
Philosophy 201, 202 or 203	3		
Education 411	1		
	16		14

BUSINESS

108. **GENERAL BUSINESS.** A consideration of the functions, organization, and operation of a business. A study of the different types of business establishments, such as manufacturing, service, merchandising, etc. Credit, three hours.

205. **ACCOUNTING I.** Functions and classification of accounts; the recording process. Development of modern accounting records, including journals and ledgers, theory of depreciation and reserve accounts. Practice set required. Credit, three hours.

206. **ACCOUNTING II.** Accounting controls, the voucher system, accounting for taxes and income taxation. Introduction to the accounting principles of partnerships, corporations, departmental and branch accounting. Prerequisite: Business 205. Credit, three hours.

211. **BUSINESS MATHEMATICS.** Instruction and drill in fundamental arithmetic skills; study of processes in other areas of mathematics pertinent to business practice. Credit, three hours.

301. **BUSINESS ENGLISH.** A course that adapts standard English to the needs of business. Hackneyed or stereotyped expressions are omitted. Practical composition is given with emphasis upon business and writing. An understanding of the more common business terms, situations, conditions, and policies is given. The course covers the fundamental principles that govern all kinds of business letters and reports. Credit, three hours.

303. **SALESMANSHIP.** A study of the principles underlying the philosophy and techniques of personal selling. Credit, three hours.

305. **ADVANCED ACCOUNTING I.** Amplified treatment of the corporation; special problems related to real and nominal accounts. Prerequisite: Business 206. Credit, three hours.

306. **ADVANCED ACCOUNTING II.** Emphasis on accounting for special forms of business organizations, liquidation of partnerships and corporations, mergers and consolidations. Prerequisite: Business 206. Credit, three hours.

310. **MANAGEMENT.** Principles and techniques of successful organization, management and operation of business activities including such areas as planning, sales, purchasing, personnel, and finance. Prerequisite: Business 108 or permission from the instructor. Credit, three hours.

327. **METHODS OF TEACHING BUSINESS EDUCATION.** The principles of teaching and learning commercial subjects in junior and senior high schools. Credit, three hours.

328. **ADVANCED METHODS OF TEACHING BUSINESS EDUCATION.** A consideration of the problems, materials, and methods in teaching basic business subjects in junior and senior high schools. Credit, three hours.

401. **BUSINESS LAW I.** Instruction in fundamental legal principles applicable in connection with contracts, agencies, partnerships, corporations, and other business situations. Credit, three hours.

402. **BUSINESS LAW II.** Instruction in legal principles pertaining to negotiable instruments, sales, bailments, chattel mortgages, conditional sales and suretyship. Prerequisite: Business 401 or permission from the instructor. Credit, three hours.

405. **MARKETING.** A study of the economic functions of marketing and of the factors, processes, and institutions which condition these functions. Prerequisites: Business 108 and Economics 201 or permission from the instructor. Credit, three hours.

407. **ADVERTISING.** A study of the creation of advertising ideas and the use of advertising in business. Prerequisite: Business 108 or permission from the instructor. Credit, three hours.

409. **COST ACCOUNTING.** Practices and procedures; principles and methods of handling material, labor, and overhead costs; procedures in job orders, process cost systems, and standard cost; budget principles and managerial control. Prerequisites: Business 205 and Business 206. Credit, three hours.

410. **MANAGERIAL COST ACCOUNTING.** An intensive study of the function of accounting with reference to managerial organization and administration. Emphasis is placed upon the relation of the accounting system to budgetary control, standard costs, and distribution costs. Prerequisites: Business 205, Business 206 and Business 409. Credit, three hours.

411. **TAXATION.** Principles involved in determining taxable net income and the computation of federal income taxes for individuals, partnerships, and corporations. Credit, three hours.

412. **AUDITING.** A study of the duties and responsibilities of an auditor, kinds of audits, and audit programs. Review of accounting theory and principle and their application to the work of the auditor. Methods of internal control and their relation to the auditing procedure. Prerequisites: Business 205, Business 206, Business 305 and Business 306. Credit, three hours.

416. **INSURANCE.** A general insurance course covering fire, casualty, and life insurance. Credit, three hours.

SECRETARIAL SCIENCE

CURRICULUM IN SECRETARIAL SCIENCE

Freshman Year

First Semester	Hours	Second Semester	Hours
English 101	3	English 102	3
Biology 101 or Chemistry 101	4	Biology 102 or Chemistry 102	4
Secretarial Science 101	2	Secretarial Science 102	2
Education 101	1	History 104	1
Health Education 101	2	Business 108	3
History 101	3	History 102	3
Physical Education 100	1	Physical Education Elective (100 Level)	1
	<hr/>		<hr/>
	16		17

Sophomore Year

First Semester	Hours	Second Semester	Hours
Secretarial Science 103	3	Secretarial Science 104	3
Secretarial Science 201	2	Secretarial Science 202	2
Business 205	3	Business 206	3
Mathematics 101	3	Mathematics 102 or 104	3
Humanities 201	4	Humanities 202	4
Music 101	2	Physical Education Elective (100 Level)	1
Physical Education Elective (100 Level)	1		
	<hr/>		<hr/>
	18		16

Junior Year

First Semester	Hours	Second Semester	Hours
Economics 201	3	Art 101 or 102	2
Business 305	3	English 200	2
Business 301	3	Philosophy 201, 202, or 203	3
Secretarial Science 203	3	Secretarial Science 204	3
Psychology 201	3	Secretarial Science 302	3
Electives	3	Electives	3
	<hr/>		<hr/>
	18		16

Senior Year

First Semester	Hours	Second Semester	Hours
Business 401	3	Business 402	3
Economics 307	3	Secretarial Science 402	3
Secretarial Science 401	3	Electives	6
Electives	6		
	<hr/>		<hr/>
	15		12

SECRETARIAL SCIENCE

101-102. **TYPEWRITING I AND II.** A beginner's course devoted to achieving mastery of the keyboard and development of speed and accuracy in the manipulation of the machine. Prerequisite for Secretarial Science 102 is Secretarial Science 101 or exemption by standard examination. Credit, four hours.

103-104. **STENOGRAPHY I AND II.** An elementary course including theory underlying stenographic recording and building of a vocabulary. Prerequisite for Secretarial Science 104 is Secretarial Science 103. Credit, six hours.

201-202. **TYPEWRITING III AND IV.** An advanced course with emphasis upon the perfection of skill in the manipulation of the machine. Speed and accuracy are stressed. Prerequisites for Secretarial Science 201 are Secretarial Science 101 and 102. Prerequisites for Secretarial Science 202 are Secretarial Science 101, 102, and 201. Credit, four hours.

203-204. **STENOGRAPHY III AND IV.** Advanced instruction and practice designed to bring the skills of the students up to professional standards. Prerequisites for Secretarial Science 203 are Secretarial Science 103 and 104. Prerequisites for Secretarial Science 204 are Secretarial Science 103, 104, and 203. Credit, six hours.

302. **BUSINESS MACHINES.** A course providing experience with standard machines which are used in modern business offices—such as machines for computation, duplication, and graphic presentation. Credit, three hours.

401. **DICTATION AND TRANSCRIPTION.** A course concentrating on developing a high degree of skill in the organized use of the basic instruments of the secretary—namely, shorthand, English, and typewriting. Prerequisite: All stenography courses or permission from the instructor. Credit, three hours.

402. **SECRETARIAL PRACTICE.** A course combining practice with instruction in the routine operations which confront the secretary in an office. Prerequisite: All stenography and typewriting courses or permission from the instructor. Credit, three hours.

THE DEPARTMENT OF EDUCATION

The Department of Education aids students through professional courses to become teachers in the elementary and secondary schools and prepares them for advanced studies in graduate school.

The Department provides guidance and experience designed to help students to develop personally and professionally, helping them to gain

both an appreciation and understanding of children and a sound philosophy of education.

The fields of study in this Department are Early Childhood Education and Elementary Education. Courses in education are offered for those who are making preparation to teach in secondary schools.

CURRICULUM IN ELEMENTARY EDUCATION

Freshman Year			
First Semester	Hours	Second Semester	Hours
Psychology 201	3	Education 204	3
English 101	3	English 102	3
Biology 101	4	Biology 102	4
History 101	3	History 102	3
Education 101	1	Health Education 101	2
Physical Education 100	1	Physical Education Elective (100 Level)	1
	15		16

Sophomore Year			
First Semester	Hours	Second Semester	Hours
Mathematics 105	3	Mathematics 106	3
Humanities 201	4	Humanities 202	4
History 201	3	History 202	3
Physical Science 201	4	Psychology 204	2
Music 101	2	Art 101	2
History 104	1	English 200	2
Physical Education Elective (100 Level)	1	Physical Education Elective (100 Level)	1
	18		18

Junior Year			
First Semester	Hours	Second Semester	Hours
Education 301	3	Education 308	3
Education 303	3	Psychology 302	3
Music 201	3	Geography 101	2
Psychology 303	3	Art 201	3
Education 309	3	Education 302	3
Art 102A	2	Home Economics 314	3
	17		17

Senior Year			
First Semester	Hours	Second Semester	Hours
Education 411	1	Education 400	8
Education 413	3	Education 408 (BLOCKED)	3
Education 312	3	Health Education 308	3
Education 305	3		
Physical Education 303	3		
Education 304	2		
Elective	3		
	18		14

CURRICULUM IN EARLY CHILDHOOD EDUCATION

Freshman Year			
First Semester	Hours	Second Semester	Hours
Psychology 201	3	Education 204	3
English 101	3	English 102	3
Biology 101	4	Biology 102	4
History 101	3	History 102	3
Education 101	1	Health Education 101	2
Physical Education 100	1	Physical Education Elective (100 Level)	1
	15		16

Sophomore Year

First Semester	Hours	Second Semester	Hours
Mathematics 105	3	Mathematics 106	3
Humanities 201	4	Humanities 202	4
History 201	3	History 202	3
Physical Science 201	4	Psychology 204	3
Music 101	2	Art 101	2
History 104	1	English 200	2
Physical Education Elective (100 Level)	1	Physical Education Elective (100 Level)	1
	18		18

Junior Year

First Semester	Hours	Second Semester	Hours
Education 301	3	Education 308	3
Education 303	3	Psychology 302	3
Psychology 303	3	Geography 101	3
Sociology 201	3	Education 310	3
Music 201	2	Education 312	3
Art 102	2	Art 201	2
Music Education 205 (Piano)	1		
	17		17

Senior Year

First Semester	Hours	Second Semester	Hours
Home Economics 301	3	Education 400N	9
Education 316	3	Education 408 (BLOCKED)	3
Education 305	3	Health Education 308 (BLOCKED)	3
Physical Education 303	3		
Education 304	2		
Education 411	1		
Home Economics 314	3		
	18		15

EDUCATION

101. FRESHMAN ORIENTATION. A course designed to facilitate the transition from high school to college. Units on how to use the library, how to study, personal adjustment problems, choosing a vocation, and self-evaluation are included. (Required of all freshmen.) Credit, one hour.

204. INTRODUCTION TO EDUCATION. This course is distinctly an orientation and guidance course. It consists of a broad survey and general picture of school situations, techniques, and problems. Credit, three hours.

301. TEACHING OF READING IN ELEMENTARY SCHOOLS. This course deals with scientific methods of teaching the elementary child how to read effectively. Attention is given to how desirable habits, skills, and appreciation may be developed in and through reading. Credit, three hours.

302. DEVELOPMENTAL READING FOR ELEMENTARY AND SECONDARY SCHOOL TEACHERS. A course in the teaching of reading with demonstrations and observations as well as lectures. Areas covered are initial reading procedure, directing a reading lesson, providing for individual differences, and developing work recognition skills. Credit, three hours.

303. TEACHING OF SOCIAL STUDIES. This course presents various methods of teaching the numerous phases of community living with special attention being given to community history and geography, social types and groups. Opportunities are provided for constructing units and projects in social studies for the elementary school child. Prerequisites: Education 204 and Psychology 204. Credit, three hours.

304. SCIENCE FOR ELEMENTARY SCHOOL TEACHERS. A course in nature study including the methods of presenting this material to elementary school pupils. One lecture and one laboratory period per week. Credit, two hours.

305. TEACHING OF ARITHMETIC. This course emphasizes problems involved in teaching of arithmetic to elementary school children. Subject matter and various methods of presenting quantitative concepts in the first eight grades are appraised and evaluated. Other training provided by the course includes new methods of teaching fundamental number facts as revealed by recent studies in the field, the teaching of long division, common fractions, and decimals. Prerequisites: Education 204 and Psychology 204. Credit, three hours.

306. METHODS OF TEACHING HOMEMAKING EDUCATION. In this course a study of methods of instruction in homemaking is undertaken. Special attention is given to such procedures as formulating objectives of homemaking education for secondary schools, adult and out-of-school groups. Texts, references, tests, and teaching aids in this field are evaluated as part of the course activities. Prospective teachers of homemaking education are given opportunities to observe actual classroom instruction in this and related fields. Credit, three hours.

307. ADVANCED METHODS OF TEACHING HOMEMAKING EDUCATION. In this course units of work and lesson plans are developed under the guidance of instructors. Prospective leaders and teachers in this field are given opportunity to plan and participate in varied community based activities such as fairs, festivals, fashion shows, food and clothing exhibits, and other similar types of programs. Credit, three hours.

308. CHILDREN'S LITERATURE. A critical study of literature for primary and grammar grades. This course is designed for teachers of elementary education. Prerequisites: Education 204 and Psychology 204. Credit, three hours.

309. GUIDANCE OF PUPILS IN ELEMENTARY AND SECONDARY SCHOOLS. This course deals with the diagnosis of children's behavior and with effective procedures and techniques available for use by teachers and administrators in directing wholesome personality growth. Prerequisites: Education 204 and Psychology 204. Credit, three hours.

310. MODERN PRACTICES IN EARLY CHILDHOOD EDUCATION. Current trends and practices, instructional and resource material, meth-

ods and techniques in early childhood education. Observation of preschool children. Credit, three hours.

312. TECHNIQUES IN AUDIO-VISUAL EDUCATION. A survey of various types of audio-visual materials and how they can be used by the elementary and high school teacher. Methods of evaluating and preparing these materials are considered during the semester. One lecture and two laboratory periods per week. Prerequisites: Education 204 and Psychology 204. Credit, three hours.

316. NURSERY AND KINDERGARTEN EDUCATION. Philosophy of curriculum development in preschool education, program planning, the role of the teacher, parent-teacher relations; and the administration of nursery school and kindergartens. Credit, three hours.

343. METHODS AND MATERIALS FOR PHYSICS TEACHERS. This course is designed to give prospective teachers of physics current methods in physics education. Demonstrations of various approaches and experiences in handling materials used in teaching physics and physical science in the secondary school. Credit, three hours.

400. PRE-SERVICE TEACHING IN ELEMENTARY SCHOOLS. This course directs attention to how basic principles of learning affect the organization of the elementary school curriculum. As an integral part of the course, experienced elementary school teachers present lessons for the purpose of observation and study. Additional experiences call for the teacher trainees to actually engage in teaching at the elementary school level for a period of eight weeks. Prerequisites: All other courses in Education and Psychology. Credit, eight hours.

400N. PRE-SERVICE TEACHING IN NURSERY SCHOOL-KINDERGARTEN. This course provides experience in observing and participating in responsible student teaching in the field of Early Childhood Education. The student will get three weeks of experience in the Nursery School, Kindergarten and primary grades. Credit, nine hours.

403. GENERAL METHODS IN SECONDARY EDUCATION. This course is designed for those preparing to teach in the high school. Current principles of teaching and classroom organization are evaluated in the light of present day socio-economic factors and conditions. Class activities include lectures, observations, and special reports. Prerequisites: Education 204 and Psychology 204. Credit, three hours.

404. EDUCATIONAL SOCIOLOGY. A study of the relationship between the society and the school and of the obligations placed upon the school by social change. Credit, three hours.

405. PRINCIPLES OF SECONDARY EDUCATION. This course emphasizes the importance of objectives in secondary education, the role of the teacher in the realization of objectives, lesson planning, various types of high school curricula, assignments and marking systems. Credit, three hours.

406. **THE JUNIOR HIGH SCHOOL.** This course emphasizes the history and evolution of the junior high school as an institution in our culture. Special attention is given to the organization and administration of high schools in representative communities today. Problems connected with planning, coordinating, directing, and reporting are considered. Credit, three hours.

407. **METHODS OF TEACHING AGRICULTURE.** This course, through numerous demonstrations, indicates how basic educational principles and techniques may be applied in the teaching of agriculture in the secondary school. The importance of demonstration as a method is given special consideration. Problems of organization, management, and evaluation in departments of agriculture in secondary schools are explored. Credit, three hours.

408. **HISTORY AND PHILOSOPHY OF AMERICAN EDUCATION.** A survey of the growth and development of organized education in America. Attention is given to important points of view which have influenced the character and direction of American education since 1619. Credit, three hours.

409. **METHODS OF TEACHING FOREIGN LANGUAGES.** This course covers an analysis of the methods of teaching modern foreign languages including recent developments in this field. The oral method, the selection of text books, and the construction of a syllabus are emphasized. Demonstrations of classroom procedures and student teaching are also covered. Credit, three hours.

411. **SEMINAR IN TEACHER TRAINING.** A study of the role of student teaching and its problems. Credit, one hour.

412. **PRE-SERVICE TRAINING IN THE SECONDARY SCHOOLS.** This course provides experience in observing and participating in responsible student teaching. Credit, eight hours.

412A. **PRE-SERVICE TRAINING IN THE SECONDARY SCHOOLS.** This course provides experience in observing and participating in responsible student teaching in the field of Vocational Agriculture. Credit, eight hours.

412H. **PRE-SERVICE TRAINING IN THE SECONDARY SCHOOLS.** This course provides experience in observing and participating in responsible student teaching in the field of Home Economics. Credit, eight hours.

413. **TECHNIQUES AND PRINCIPLES OF TEACHING IN THE ELEMENTARY SCHOOL.** This course gives special attention to nature of the teacher-learning process where the elementary school child is concerned. The following areas are studied: the teacher's daily preparation; the teacher's role in cooperative planning; physical and psychological factors influencing learning; basis for constructing and using teaching

devices; principles of growth influencing the organization of the elementary school. Prerequisites: Junior courses in methods. Credit, three hours.

415. **VOCATIONAL EDUCATION.** This is a general survey course which has as its main purpose to acquaint prospective teachers with the fundamental principles for study and interpretation of significant congressional acts affecting vocational education in this country. Credit, three hours.

416. **SPECIAL PROBLEMS IN AGRICULTURAL EDUCATION.** Under the guidance of the instructor, the following types of problems are discussed and analyzed: problems in teaching agricultural education; organizing agricultural programs; job analysis; management of equipment for farms; home projects and community activities; special duties of teachers of vocational agriculture. Prerequisite: Education 407. Credit, three hours.

417. **METHODS OF TEACHING HIGH SCHOOL CHEMISTRY.** A study of the methods and materials used in teaching high school chemistry. One lecture and one 150-minute seminar period per week. Prerequisites: Chemistry 101-102, 201, and 301-302. Credit, three hours.

THE DEPARTMENT OF ENGLISH

The role of the Department of English is threefold:

To offer instruction in grammar, composition, speech, and in the humanities for the general education program,

To offer instruction in language and literature, speech, methods of teaching English, linguistics and language arts for the teacher education program, and

To offer instruction in language and literature, speech, drama, grammar and composition, and in linguistics for the liberal arts program.

In light of the above perspectives, the following courses are offered by the Department of English. For students who desire to major in English in the teacher education program or in the liberal arts program, a course of study sequence is offered for each program in the following pages:

CURRICULUM IN ENGLISH

Freshman Year			
First Semester	Hours	Second Semester	Hours
English 101	3	English 102	3
History 101	3	History 102	3
Mathematics 101	3	Mathematics 102	3
Natural Science 101	4	Natural Science 102	4
Education 101	1	Health Education 101	2
Physical Education 100	1	Physical Education Elective (100 Level)	1
	15		16

Sophomore Year

First Semester	Hours	Second Semester	Hours
Humanities 201	4	Humanities 202	4
Foreign Language 101	3	Foreign Language 102	3
English 200	2	History 104	1
Psychology 201	3	Physical Education Elective (100 Level)	1
Elective (Social Science 201)	3	Electives	6
	16		15

Junior Year

First Semester	Hours	Second Semester	Hours
English 301	3	English 302	3
English 306	3	English 307	3
Foreign Language 201	3	Foreign Language 202	3
Electives	7	Electives	7
	16		16

Senior Year

First Semester	Hours	Second Semester	Hours
English 402	3	English 403	3
Electives	12	Electives	9
	15		12

CURRICULUM IN ENGLISH EDUCATION

Freshman Year

First Semester	Hours	Second Semester	Hours
Education 101	1	Health Education 101	2
English 101	3	English 102	3
History 101	3	History 102	3
Mathematics 101	3	Mathematics 102	3
Natural Science 101	4	Natural Science 102	4
Physical Education 100	1	Physical Education Elective (100 Level)	1
	15		16

Sophomore Year

First Semester	Hours	Second Semester	Hours
Education 204	3	English 204	3
English 200	2	Foreign Language 102	3
English 301	3	History 104	1
Foreign Language 101	3	Humanities 202	4
Humanities 201	4	Psychology 204	3
Psychology 201	3	Physical Education Elective (100 Level)	1
	18	English 302	3
			18

Junior Year

First Semester	Hours	Second Semester	Hours
English 311	3	English 305	3
English 306	3	Elective (English)	3
Elective (English)	2-3	English 307	3
Foreign Language 201	3	Foreign Language 202	3
Psychology 303	3	Psychology 305	3
Physical Education Elective (100 Level)	1	Elective (History)	3
	15-16		18

Senior Year

First Semester	Hours	Second Semester	Hours
Education 411	1	Education 412	8
English 404	3	English 403	3
Psychology 302	3	Elective	3
English 402	3	Education 408	3
Electives	6		
	16		17

ENGLISH

101-102. **ENGLISH COMPOSITION.** This course is designed to develop skill and competence in prose composition through themes, discussions, and conferences and to develop the student's command of the English language as an instrument of learning and expression. Credit, six hours.

200. **SPEECH.** In this course the student receives training in the fundamentals of diction and effective oral expression in prepared and extemporaneous informal speeches. Emphasis is placed upon practice in speech and delivery. The student is required to compose and deliver various types of public speeches. Credit, two hours.

204. **PRINCIPLES OF LINGUISTICS.** Introduction to the scientific study of language with emphasis on the application of modern linguistic science to the teaching of grammar and writing.

301-302. **ENGLISH LITERATURE.** This survey course is designed to increase the student's awareness of the significant trends in English Literature, beginning with the Anglo-Saxon period. The course emphasizes the work of the major English writers in relation to the literary movements and ideas of their periods. Credit, six hours.

303. **ENGLISH LITERATURE IN THE EIGHTEENTH CENTURY.** With emphasis upon the reading of representative writers, Defoe, Addison, Steele, Pope, Swift, and Dr. Johnson and his circle, this course is a study of the Augustan Age. Credit, three hours.

304. **THE ROMANTIC PERIOD IN ENGLISH LITERATURE.** This course consists of readings in the prose and poetry of Wordsworth, Coleridge, Scott, Byron, Shelly, and Keats, with some attention to critical reactions to their works and to definitions of Romanticism. Credit, three hours.

305. **SHAKESPEARE.** The aim of this course is to impress upon the student the cultural, historical, and philosophical significance of the works of Shakespeare in relation to modern living. Representative plays from the several literary periods of Shakespeare are studied. Credit, three hours.

306-307. **AMERICAN LITERATURE.** Significant trends in American literary thought as reflected in the works of the major writers from the Colonial Period to the present are emphasized in this course. Credit, six hours.

308. **BRITISH AND AMERICAN DRAMA.** A study of the major figures of British and American drama from the Age of Shakespeare to the twentieth century. Credit, three hours.

309. **THE ENGLISH RENAISSANCE.** A survey of the literature of the English Renaissance with special study of the major authors: Sidney, Spenser, Shakespeare, Jonson and Donne. Credit, three hours.

311. **ADVANCED COMPOSITION.** Emphasis is placed upon extensive practice in effective writing of prose composition. Prerequisites: English 101-102. Credit, three hours.

313. **PLAY PRODUCTION.** General introduction to directing, staging, lighting, costuming, makeup and other aspects of educational and recreational drama. Credit, three hours.

315. **JOURNALISM.** Basic instruction and practice in news gathering and in writing for publication. Prerequisite: English 101 and 102. Credit, two hours.

401. **VICTORIAN LITERATURE.** The aim of this course is to present selected readings of the major poets of the period, Tennyson, Browning, Rossetti, and their contemporaries, against the background of Victorian thought. Credit, three hours.

402. **CONTEMPORARY LITERATURE.** This course is a study of British and American writers of fiction and poetry since 1900, with emphasis on the main currents of thought in the twentieth century. Credit, three hours.

403. **SENIOR SEMINAR.** The Seminar embraces a correlation of the content of the various courses by review of periods, literary trends, and significant authors of English, American, and continental literature. Credit, three hours.

404. **TEACHING ENGLISH IN THE HIGH SCHOOL.** This course is designed to promote effective and knowledgeable teaching of composition and literature in the high school. The course covers the content to be taught, the insights needed by the teacher and various methods recommended in teaching the subject.

HUMANITIES

201-202. **HUMANITIES I AND II.** The aim of the course is to promote knowledge of and appreciation for the cultural and technical elements common to literature, religion, philosophy, music, art, and architecture. Humanities 201 is prerequisite to Humanities 202. Prerequisite: English 101-102. Credit, eight hours.

THE DEPARTMENT OF FOREIGN LANGUAGES

The Department of Foreign Languages includes French, German, Russian and Spanish.

The objectives of the Department of Foreign Languages are: to develop in the students a fluency in speaking, reading and writing a foreign language; to insure a strong background in the literature and culture of the people whose language they are studying; to train teachers of foreign languages at the secondary level; to prepare students for gradu-

ate work in the languages; and to provide students with a general knowledge of foreign cultures and literatures.

Students in this Department are encouraged to minor in a second language.

For a major in French, thirty hours are required and the sequence should be: French 101-102, 201-202, 301-302, 303-304, 305-306, and 307-308.

For a minor in French, eighteen hours are required and the sequence should be: French 101-102, 201-202, and 301-302.

For a major in German, thirty hours are required and the sequence should be: German 101-102, 201-202, 301-302, 303-304, 305-306, and 307.

For a minor in German eighteen hours are required and the sequence should be: German 101-102, 201-202, and 301-302.

For a major in Spanish, thirty hours are required, and the sequence should be: Spanish 101-102, 201-202, 301-302, 303-304, 305, 306, and 307-308.

For a minor in Spanish, eighteen hours are required and the sequence should be: Spanish 101-102, 201-202, and 301-302.

CURRICULUM IN FOREIGN LANGUAGES

Freshman Year

First Semester	Hours	Second Semester	Hours
English 101	3	English 102	3
Education 101	1	History 104	1
History 101	3	History 102	3
Physical Education 100	1	Physical Education Elective (100 Level)	1
Biology 101	4	Biology 102	4
Foreign Language 101	3	Foreign Language 102	3
		Health Education 101	2
	15		17

Sophomore Year

First Semester	Hours	Second Semester	Hours
Humanities 201	4	Humanities 202	4
Mathematics 101	3	Mathematics 102	3
Foreign Language 201	3	Foreign Language 202	3
Psychology 201	3	Education 204	3
English 200	2	Foreign Language 102 (minor)	3
Foreign Language 101 (minor)	3	Physical Education Elective (100 Level)	1
Physical Education Elective (100 Level)	1		
	19		17

Junior Year

First Semester	Hours	Second Semester	Hours
Elective (Social Science 201)	3	Foreign Language 302	3
Foreign Language 301	3	Foreign Language 304	3
Foreign Language 303	3	Psychology 302	3
Psychology 204	3	Foreign Language 202 (minor)	3
Psychology 303	3	Elective	3
Foreign Language 201 (minor)	3		
	18		15

Senior Year

First Semester	Hours	Second Semester	Hours
Education 405	3	Education 412	8
Education 411	1	Foreign Language 306	3
Education 409	3	Foreign Language 302 (minor)	3
Foreign Language 305	3		
Foreign Language 301 (minor)	3		
Psychology 305	3		
	16		14

FRENCH

101-102. ELEMENTARY FRENCH. An intensive oral-aural approach to French for students with no previous training in the language. Abundant practice in hearing, understanding and speaking French is provided with basic grammar integrated into the learning process. Two one-hour laboratory periods per week are required for the development of conversational skills in addition to the regular class periods. Credit, six hours.

201-202. INTERMEDIATE FRENCH. This course is designed to continue the development of audio-lingual skills. Grammar will consist of the more advanced levels of syntax. Introduction to civilization through reading. Prerequisites: French 101-102 or satisfactory completion of a standard examination covering Elementary French. Credit, six hours.

301-302. SURVEY OF FRENCH LITERATURE. A survey of French Literature from its beginning to the present time. Selected works from the most widely recognized authors and lectures on the major literary movements in France are covered. Class conducted in French. Prerequisite: 12 semester hours of French. Credit, six hours.

303-304. ADVANCED FRENCH COMPOSITION, GRAMMAR AND CONVERSATION. An advanced course in the study of French grammar with special stress on the difficult points of syntax, vocabulary building, idioms, and literary style. Special stress will also be placed on fluency in the language with prepared and impromptu group discussions on general topics and frequent short talks by students. Class conducted in French. Prerequisite: 12 semester hours of French. Credit, six hours.

305-306. FRENCH CIVILIZATION. A course designed to give the student a comprehensive and systematic study of the origin and development of the French nation and its cultural role in human history from the points of view of geography, industry, social and political institutions, science, literature, and art. Class conducted in French. Prerequisite: 12 semester hours of French. Credit, six hours.

307-308. FRENCH LITERATURE OF THE SEVENTEENTH CENTURY. This course traces the origin and development of French classicism and provides an analysis of its philosophical, artistic and social implications. The authors studied are Descartes, Pascal, Boileau, Bossuet, LaFontaine, La Rochefoucauld, Fenlon, Corneille, Racine and Moliere. Class con-

ducted in French. Prerequisite: 12 semester hours of French. Credit, six hours.

GERMAN

101-102. ELEMENTARY GERMAN. This course is designed for the elementary development of the basic knowledge of German grammar, skills of reading, and the writing, speaking and understanding of German within the limitation of elementary requirements. Two one-hour laboratory periods per week in addition to the regular class periods are required. Credit, six hours.

201-202. INTERMEDIATE GERMAN. A review of grammar on the intermediate level and an introduction to original samples of German literature. Development of conversational skills and written practice are stressed. Prerequisites: German 101-102 or the satisfactory completion of a standard examination covering Elementary German. Credit, six hours.

301-302. HISTORY OF GERMAN LITERATURE. Presentation of the main trends of the history of German literature, starting with poetry of the baroque and leading up to modern times. The theory of the presentation will be illustrated by class reading of representative samples of German literature. Class conducted in English and German. Prerequisites: 12 semester hours of German. Credit, six hours.

303-304. ADVANCED COMPOSITION AND CONVERSATION. A course in advanced composition with emphasis placed on conversation. Improvement in pronunciation is stressed and an introduction to phonetics is presented. Class conducted in German. Prerequisite: 12 semester hours of German. Credit, six hours.

305-306. HISTORY OF GERMAN CIVILIZATION. This course is designed to trace the developments of the German nation, presented from the points of view of geography, industry, science, literature and art, and to show the impact of its social and political institutions on world history. Class conducted in German. Prerequisite: 12 semester hours of German. Credit, six hours.

307. SEMINAR. An intensive study of representative authors' works, such as Goethe's *Die Leiden des Jungen Werther*. Class conducted in German. Credit, three hours.

SPANISH

101-102. ELEMENTARY SPANISH. A course for beginners designed to develop aural ability, oral facility, and reading comprehension. Two one-hour laboratory periods per week are required in addition to the regular class periods. Credit, six hours.

201-202. **INTERMEDIATE SPANISH.** Review of grammar and pronunciation. Reading of several texts of average difficulty. Prerequisites: Spanish 101-102 or satisfactory completion of standard examination covering Elementary Spanish. Credit, six hours.

301-302. **SURVEY OF SPANISH LITERATURE.** The first semester covers a review of Spanish literature from its origin to 1700; the second semester from 1700 to the present. Prerequisite: 12 semester hours of Spanish. Credit, six hours.

303-304. **ADVANCED COMPOSITION, GRAMMAR AND CONVERSATION.** An advanced course for students who wish to acquire greater proficiency in speaking and writing Spanish. Class conducted in Spanish. Prerequisite: 12 semester hours of Spanish. Credit, six hours.

305. **SPANISH CIVILIZATION.** An intensive study of the history and development of the Spanish nation, with emphasis upon geography, cultural institutions, literature and art. Class conducted in Spanish. Prerequisite: 12 semester hours of Spanish or the equivalent. Credit, three hours.

306. **LATIN-AMERICAN CIVILIZATION.** An intensive study of the historical, cultural, political, and economic elements contributing to the development of Spain and Latin America. Class conducted in Spanish. Prerequisite: 12 semester hours of Spanish or the equivalent. Credit, three hours.

307-308. **SPANISH LITERATURE OF THE GOLDEN AGE.** A study of some of the representative authors of the sixteenth and seventeenth centuries. Lectures, readings, and individual reports. Class conducted partly in Spanish. Prerequisites: Spanish 301-302 or their equivalent. Credit, six hours.

309-310. **THE LITERATURE OF SPANISH AMERICA.** The first semester includes a review of the Spanish-American novel and short story; the second, poetry and drama. Class conducted in Spanish. Prerequisites: Spanish 301-302 or their equivalent. Credit, six hours.

RUSSIAN

101-102. **ELEMENTARY RUSSIAN.** An elementary course in the fundamentals of grammar and pronunciation with graded reading, oral drills, and written practice. Two one-hour laboratory periods per week are required in addition to the regular class periods. Credit, six hours.

201-202. **INTERMEDIATE RUSSIAN.** An intermediate course in the reading and writing of Russian. Development of conversational skills and the reading of short stories are stressed. Prerequisites: Russian 101-102. Credit, six hours

THE DEPARTMENT OF HEALTH AND PHYSICAL EDUCATION

The Department of Health and Physical Education provides those elements of instruction and leadership necessary to assist the student in achieving aims relative to gainful employment in teaching, recreation, and the medically allied fields. It further provides facilities and instruction in those areas that are concerned with physical development and well-being, including specific health instruction and opportunities to engage in physical activities as organized groups or as individuals. The Department is available for such community services as its facilities and personnel can satisfy.

Within the department are four areas of concentration; one for students wishing to become teachers; one for those desiring to establish a background for entry into a medically allied field, such as Physical Therapy; one for those interested in Recreation as a vocation; and one in Health Education and its related areas.

CURRICULUM IN HEALTH AND PHYSICAL EDUCATION

Freshman Year

First Semester	Hours	Second Semester	Hours
Health Education 101	1	Health Education 101	2
English 101	3	English 102	3
History 101	3	History 102	3
Biology 101	4	Biology 102	4
Mathematics 101	3	Mathematics 102	3
Physical Education 100	1	Physical Education Elective (100 Level)	1
	15		16

Sophomore Year

First Semester	Hours	Second Semester	Hours
English 200	2	History 104	1
Humanities 201	4	Humanities 202	4
Psychology 201	3	Education 204	3
Physical Education 207	4	Biology 204	3
Philosophy 201	3	Philosophy 202	3
or		or	
Music 101	2	Art 101	2
Physical Education Elective (100 Level)	1	or	
		Art 102	2
		Physical Education Elective (100 Level)	1
	16-17		14-15

Junior Year

First Semester	Hours	Second Semester	Hours
Home Economics 301	3	Health Education 308	3
Physical Education 309	2	Psychology 204	3
Physical Education 301	1	Physical Education 302	1
Physical Education 303	3	Physical Education 310	3
Physical Education 315	1	Physical Education 312	3
Sociology 201	3	Physical Education 304	3
Physical Education 311	1	Physical Education 205	1
Physical Education 307	3		
	17		17

Senior Year

First Semester	Hours	Second Semester	Hours
Education 405	3	Education 412	8
Education 411	1	Health Education 412	2
Physical Education 401	1	Health Education 404	2
Physical Education 403	3	Physical Education 404	1
Physical Education 405	3	Physical Education 406	1
Health Education 409	3	Physical Education 416	1
Electives	2	Physical Education 402	1
	16		16

CURRICULUM FOR MEDICALLY ALLIED FIELDS

Freshman Year

First Semester	Hours	Second Semester	Hours
Education 101	1	Health Education 101	2
English 101	3	English 102	3
History 101	3	History 102	3
Mathematics 101	3	Mathematics 104	3
Chemistry 101	4	Chemistry 102	4
Physical Education 100	1	Physical Education Elective (100 Level)	1
	15		16

Sophomore Year

First Semester	Hours	Second Semester	Hours
Biology 101	4	Biology 102	4
Humanities 201	4	Humanities 202	3
German 101	3	German 102	2
Psychology 201	3	English 200	1
Sociology 201	3	History 104	2
or		Electives	2
Economics 201	3	Physical Education Elective (100 Level)	1
Physical Education Elective (100 Level)	1		1
	18		17

Junior Year

First Semester	Hours	Second Semester	Hours
Physical Education 207	4	Biology 204	3
Home Economics 301	3	Physics 202	4
Physics 201	4	German 202	3
German 201	3	Health Education 308	3
Electives	2	Physical Education 312	3
	16		16

Senior Year

First Semester	Hours	Second Semester	Hours
Health Education 409	2	Health Education 404	2
Physical Education 405	3	Physical Education 310	3
Biology 305	4	Physical Education 411	3
Electives	6	Physical Education (Elective)	3
	15	Electives	5
			16

CURRICULUM IN HEALTH EDUCATION

Freshman Year

First Semester	Hours	Second Semester	Hours
Education 101	1	Health Education 101	2
English 101	3	English 102	3
History 101	3	History 102	3
Mathematics 101	3	Mathematics 102	3
Chemistry 101	4	Chemistry 102	4
Physical Education 100	1	Physical Education Elective (100 Level)	1
	15		16

Sophomore Year

First Semester	Hours	Second Semester	Hours
Biology 101	4	Education 204	3
Humanities 201	4	Humanities 202	4
Psychology 201	3	Psychology 204	3
Sociology 201	3	English 200	2
History 104	1	Health Education 204	2
Physical Education Elective (100 Level)	1	Health Education 216	2
	16	Physical Education Elective (100 Level)	1
			17

Junior Year

First Semester	Hours	Second Semester	Hours
Physical Education 207	4	Biology 204	3
Home Economics 301	3	Health Education 308	3
Philosophy 201	3	Philosophy 202	3
Health Education 305	3	Physical Education 310	3
Health Education 313	3	Psychology 208	3
	16		15

Senior Year

First Semester	Hours	Second Semester	Hours
Education 405	3	Health Education 404	2
Education 411	1	Health Education 412	2
Sociology 401	3	Education 412	8
Health Education 409	3	Education 312	3
Health Education 413	2	Electives	2
Electives	2		17
	14		

CURRICULUM FOR RECREATION

Freshman Year

First Semester	Hours	Second Semester	Hours
Education 101	1	Health Education 101	2
English 101	3	English 102	3
History 101	3	History 102	3
Mathematics 101	3	Mathematics 102	3
Biology 101	4	Biology 102	4
Physical Education 100	1	Physical Education Elective (100 Level)	1
	15		16

Sophomore Year

First Semester	Hours	Second Semester	Hours
Physical Education 207	4	Biology 204	3
Humanities 201	4	Humanities 202	4
Psychology 201	3	Psychology 204	3
Physical Education Elective (100 Level)	1	Physical Education Elective (100 Level)	1
Sociology 201	3	Sociology 202	3
Music 101	2	Physical Education 205	1
	17		15

Junior Year

First Semester	Hours	Second Semester	Hours
Physical Education 311	1	History 104	1
Art 102	2	Physical Education 302	1
Physical Education 309	2	Physical Education 304	3
Physical Education 307	3	Physical Education 306	1
Physical Education 303	3	Art 101	2
Physical Education 315	1	English 200	2
Physical Education 301	1	Physical Education 312	3
Sociology 301	3	Electives	3
	16		16

Senior Year

First Semester	Hours	Second Semester	Hours
Sociology 309	3	Physical Education 416	1
Physical Education 403	3	Physical Education 402	1
Physical Education 407	3	Health Education 404	2
Sociology 401	3	Physical Education 406	1
Electives (Art)	3	Physical Education 310	3
		Electives (Music)	3
		Electives	2
		Psychology 416	3
	15		16

HEALTH EDUCATION

101. **PERSONAL HYGIENE.** The study of principles and desirable health practices with consideration of social hygiene. Credit, two hours.

204. **PRINCIPLES OF HEALTH EDUCATION.** An introduction to the broad fields of health education. Emphasis on principles and practices of improving health behavior by school and community agencies. Credit, two hours.

216. **PRINCIPLES OF COMMUNITY HEALTH.** A study of scientific fact and desirable principles and practices for healthful living in the community. Coverage is given to historical and modern efforts to meet health needs in the community. Credit, two hours.

305. **ORGANIZATION AND ADMINISTRATION OF HEALTH EDUCATION.** Administrative responsibilities and procedures in organizing and conducting the school health program. Principles, policies and practices involving instruction, service, environment, and community relationships. Credit, three hours.

308. **SCHOOL AND COMMUNITY HYGIENE.** Aspects of the school and community related to physical and mental health with consideration of the local agencies and commissions involved. Credit, three hours.

313. **METHODS AND MATERIALS IN HEALTH EDUCATION.** The construction of school health programs including objectives, scope and sequence of instruction, teaching methods, source materials, evaluation procedures, and instructional units. Credit, three hours.

404. **FIRST AID AND ATHLETIC INJURIES.** Materials of the standard Red Cross Courses and treatment and prevention of injuries in athletics are covered. Credit, two hours.

409. **ADAPTIVES.** A course designed to give students training in alleviating the usual physical strength and motor inefficiencies and the adapting of physical education activities for handicapped individuals. Credit, two hours.

412. **SAFETY EDUCATION.** Methods and materials as they relate to health and safety education in the elementary, junior high, and senior high schools. Credit, two hours.

413. **PUBLIC HEALTH EDUCATION.** Philosophy, development, organization and legal aspects of public health in the United States. Disease prevention and control, health education and the other functions and activities of official health departments, voluntary agencies, and others engaged in professional health work. Credit, two hours.

415. **ADVANCED PERSONAL HYGIENE.** This course aims to further the development of the basic understanding needed for the sound application of scientific health instructional materials and principles. Emphasis is given to the broad scope, special skills, and knowledge for health instruction. Credit, two hours.

PHYSICAL EDUCATION

100. **PHYSICAL EDUCATION ORIENTATION.** A course designed to orientate the student to the purposes of physical education. The course will include appraisal of motor skills and fitness, health values, fundamental movements, sports appreciation and skill techniques in a team sport. Credit, one hour.

103. **FUNDAMENTALS OF BASKETBALL AND VOLLEYBALL.** Skills, rules, strategies and terminology of basketball and volleyball. Separate courses for men and women. Prerequisite: Physical Education 100. Credit, one hour.

107. **FUNDAMENTALS OF GYMNASTICS AND TUMBLING (MEN).** A course designed to teach the skills of beginning and intermediate gymnastics and tumbling activities. Prerequisite: Physical Education 100. Credit, one hour.

109. **FUNDAMENTALS OF TOUCH FOOTBALL AND SOCCER (MEN).** (Fall only). Skills, rules, strategies and terminology of touch football and soccer. Prerequisite: Physical Education 100. Credit, one hour.

110. **FUNDAMENTALS OF SWIMMING.** (Beginning) Skills, techniques and basic swimming strokes. Prerequisite: Physical Education 100. Credit, one hour.

111. **FUNDAMENTALS OF WEIGHT TRAINING (MEN).** Skills, techniques, terminology and practice of weight training. Prerequisite: Physical Education 100. Credit, one hour.

112. **FUNDAMENTALS OF BOWLING.** Skills, rules, techniques and terminology of bowling. Prerequisite: Physical Education 100. (Course fee: \$5.00). Credit, one hour.

113. **FUNDAMENTALS OF BADMINTON AND ARCHERY.** Skills, strategies, techniques, rules and terminology of badminton and archery. Prerequisite: Physical Education 100. Credit, one hour.

114. **FUNDAMENTALS OF FOLK AND SQUARE DANCES.** Skills techniques and basic folk and square dance patterns. Prerequisite: Physical Education 100. Credit, one hour.

115. **FUNDAMENTALS OF MODERN DANCE.** Skills, techniques and basic patterns of movement of modern dance. Prerequisite: Physical Education 100. Credit, one hour.

116. **FUNDAMENTALS OF GOLF.** Skills, rules, techniques and terminology of golf. Prerequisite: Physical Education 100. Credit, one hour.

117. **FUNDAMENTALS OF FIELD HOCKEY AND SPEEDBALL (WOMEN).** (Fall only). Skills, terminology, techniques, rules and strategies of field hockey and speedball. Prerequisite: Physical Education 100. Credit, one hour.

118. **FUNDAMENTALS OF SKATING.** (Beginning) Terminology, balance and skill techniques of individual and partner skating. Prerequisite: Physical Education 100. Credit, one hour.

119. **FUNDAMENTALS OF FENCING.** Rules, skills, techniques and terminology of fencing. Prerequisite: Physical Education 100. Credit, one hour.

120. **FUNDAMENTALS OF TENNIS.** Skills, rules, techniques and terminology of tennis. Prerequisite: Physical Education 100. Credit, one hour.

121. **FUNDAMENTALS OF RIFLERY.** Skills, techniques and terminology of riflery. Prerequisite: Physical Education 100. Credit, one hour.

125, 126, 127, 128. **MODIFIED PHYSICAL EDUCATION.** Students taking these courses shall be given activities suited to their individual needs and capacities. The activities consist of individual exercises, and instruction and participation in individual and dual sports of a modified type. Physician certification required. Credit, one hour for each course.

204. **METHODS AND MATERIALS IN RECREATION.** Treating recreational activity and the development of various recreational programs. Prerequisites: 101, 102, 201, and 202. Credit, two hours.

205. **INTERMEDIATE SWIMMING.** Emphasis is placed on the development of the basic or standard leg strokes and their corresponding arm strokes, endurance and versatility in the water. Credit, one hour.

207. **HUMAN ANATOMY.** Gross structure of the organs and organ systems of man. Two lectures and two laboratory periods per week. Prerequisite: Biology 101. Credit, four hours.

301. **INDIVIDUAL AND DUAL ACTIVITIES.** Advanced techniques and a presentation of teaching methods of activities in which one or two persons may participate. Archery, badminton, tennis, deck tennis, and shuffleboard are included. Credit, one hour.

302. **METHODS AND MATERIALS IN GYMNASTICS AND TUMBLING.** These activities are considered in terms of proper sequence and grading for the school program. Credit, one hour.

303. **TEACHING PHYSICAL EDUCATION IN ELEMENTARY SCHOOLS.** Methods and techniques of teaching physical education in elementary schools. Credit, three hours.

304. **TEACHING PHYSICAL EDUCATION IN JUNIOR HIGH AND SENIOR HIGH SCHOOLS.** Methods and techniques of teaching physical education in the junior and senior high schools. Credit, three hours.

306. **ADVANCED TECHNIQUES IN SWIMMING AND LIFE SAVING.** Upon successful completion, the American Red Cross Certificate is received. Prerequisite: Ability to pass the intermediate swimming test. Credit, one hour.

307. **HISTORY AND PRINCIPLES OF PHYSICAL EDUCATION.** Historical and philosophical treatment of principles and objectives in physical education. Credit, three hours.

309. **FOUNDATIONS OF COMMUNITY RECREATION.** Introductory course in recreation including philosophy, theory, areas and facilities, publicity, legal status, personnel and finance. Prerequisites: 101, 102, 201 and 202. Credit, two hours.

310. **MEASUREMENT IN HEALTH AND PHYSICAL EDUCATION.** Methods of measurement and evaluation applied to health and physical education. Credit, three hours.

311. **METHODS AND MATERIALS IN RHYTHMICAL ACTIVITIES.** Emphasis placed upon folk and square, modern and social dances. Credit, one hour.

312. **KINESIOLOGY I.** The study and the analysis of human motion. Credit, three hours.

315M. **PHYSICAL EDUCATION SKILLS.** Coaching and Officiating—Basketball. Credit, one hour.

315W. **PHYSICAL EDUCATION SKILLS.** Coaching and Officiating—Women's Basketball. Credit, one hour.

401M. **PHYSICAL EDUCATION SKILLS.** Coaching and Officiating—Football. Credit, one hour.

401W. **PHYSICAL EDUCATION SKILLS.** Coaching and Officiating—Field Hockey. Credit, one hour.

402. **HEALTH AND PHYSICAL EDUCATION SEMINAR.** A study of current problems in health and physical education in the elementary, junior and senior high schools. Credit, one hour.

403. ORGANIZATION AND ADMINISTRATION OF HEALTH AND PHYSICAL EDUCATION. Problems of health and physical education, intramurals, and athletics from the point of view of the director, the teacher, and the coach. Credit, three hours.

404M. PHYSICAL EDUCATION SKILLS. Coaching and Officiating—Baseball. Credit, one hour.

404W. PHYSICAL EDUCATION SKILLS. Coaching and Officiating—Softball. Credit, one hour.

405. PHYSIOLOGY OF EXERCISE. The study of those changes which accompany muscular activity. Emphasis is given the fatigue cycle, physical fitness, and the chronic effects of exercise. Training. Credit, three hours.

406M. PHYSICAL EDUCATION SKILLS. Coaching and Officiating—Track and Field. Credit, one hour.

406W. PHYSICAL EDUCATION SKILLS. Techniques in Soccer and Speedball. Credit, one hour.

407. CAMPING. Theory and practice in the use of camping skills. Credit, two hours.

411. KINESIOLOGY II. The study of human motion with mechanical analysis of motor skills. Prerequisites: Biology 203; Physical Education 312. Credit, three hours.

416. PHYSICAL EDUCATION SKILLS. Techniques in team and group sports that have application to the teaching of Physical Education in the elementary and secondary schools. Credit, one hour.

THE DEPARTMENT OF HISTORY AND POLITICAL SCIENCE

The objectives of the Department of History and Political Science are to provide service courses endorsed in the curriculum of general education, to prepare students who plan to teach history and social sciences on the secondary level, and to prepare students for graduate study in history and political science.

Courses prescribed for the major and minor programs in history are organized into four fields: I. Methodology, II. General History, III. Advanced American History, and IV. Advanced Foreign History.

For the major in history, twenty-seven (27) semester hours of credit are required (excluding History 101, 102, and 104). These must include: History 200, 201, 202, and 404. In addition, the student must choose a minimum of fifteen hours total in Fields III and IV, completing at least

six hours in each. Also, it is recommended that the student complete Political Science 103.

Students desiring to teach history and social sciences on the secondary level should follow the curriculum in history and social sciences (Plan B), outlined below.

For a minor in history, eighteen (18) semester hours of credit are required as follows: History 200, 201, 202, and nine additional hours from Fields III and IV (at least three hours in each).

The department offers a minor in political science, consisting of Political Science 103, 211, 212, either 221 or 222, and nine additional hours of which at least six must be at the 300 level or above.

A. CURRICULUM IN HISTORY (NON-TEACHING)

Freshman Year

First Semester	Hours	Second Semester	Hours
English 101	3	English 102	3
Natural Science 101	4	Natural Science 102	4
Mathematics 101	3	Mathematics 102	3
History 101	3	History 102	3
Education 101	1	Health Education 101	2
Physical Education 100	1	Physical Education Elective (100 Level)	1
	15		16

Sophomore Year

First Semester	Hours	Second Semester	Hours
Humanities 201	4	Humanities 202	4
Foreign Language 101	3	Foreign Language 102	3
History 201	3	History 202	3
English 200	2	History 200	3
Elective	3	History 104	1
Physical Education Elective (100 Level)	1	Physical Education Elective (100 Level)	1
	16		15

Junior Year

First Semester	Hours	Second Semester	Hours
Foreign Language 201	3	Foreign Language 202	3
Psychology 201	3	History (electives)	6
History (electives)	6	Electives	6
Elective	3		
	15		15

Senior Year

First Semester	Hours	Second Semester	Hours
History 404	3	History (elective)	3
Electives	12	Electives	12
	15		15

B. CURRICULUM IN HISTORY AND SOCIAL SCIENCES FOR TEACHING MAJORS

Freshman Year

First Semester	Hours	Second Semester	Hours
English 101	3	English 102	3
Natural Science 101	4	Natural Science 102	4
Mathematics 101	3	Mathematics 102	3
History 101	3	History 102	3
History 104	1	Health Education 101	2
Education 101	1	Physical Education Elective (100 Level)	1
Physical Education 100	1		
	16		16

Sophomore Year

First Semester	Hours	Second Semester	Hours
Humanities 201	4	Humanities 202	4
Foreign Language 101	3	Foreign Language 102	3
History 201	3	History 202	3
Political Science 103	3	Political Science 211	3
Psychology 201	3	English 200	2
Physical Education Elective (100 Level)	1	Physical Education Elective (100 Level)	1
	17		16

Junior Year

First Semester	Hours	Second Semester	Hours
Foreign Language 201	3	Foreign Language 202	3
Geography 101	3	History 200	3
Economics 201	3	Elective (Economics or Sociology; Geography 102)	3
Sociology 201	3	Psychology 204	3
Education 204	3	Psychology 302	3
Psychology 303	3		
	18		15

Senior Year

First Semester	Hours	Second Semester	Hours
History (elective)	3	Education 412	8
Psychology 305	3	History 401 (BLOCKED)	3
Education 405	3	Political Science 308 (BLOCKED)	3
Education 445	3		
Education 312	3		
Education 411	1		
	16		14

GEOGRAPHY

101. **HUMAN GEOGRAPHY.** This course is concerned with the relationship between man and land and with changes brought about through the growth of applied science. Credit, three hours.

102. **ECONOMIC GEOGRAPHY.** A study of the location, organization, and importance of the major areas of economic production, such as agricultural lumbering, manufacturing, and fisheries. Credit, three hours.

HISTORY

General Education

101-102. **WORLD CIVILIZATION.** A survey of the growth of the great cultures from ancient times to the present. Developments of the last two centuries receive major consideration. Credit, six hours.

104. **HISTORY AND GOVERNMENT OF DELAWARE.** A survey course in the history and government of Delaware. Credit, one hour.

I. Methodology

404. **SEMINAR IN HISTORY.** An introduction to historiography and methodology. Individual research problems in a field of special interest are studied to develop understanding, appreciation, and skill in handling historical materials. Prescribed for senior majors. Prerequisite: Senior standing in the department or consent of the departmental chairman. Credit, three hours.

EDUCATION 445. TEACHING HISTORY AND SOCIAL SCIENCES IN SECONDARY SCHOOLS. Instruction in current methods, materials, and appropriate activities for effective teaching of social sciences in secondary schools; including preparation of units and projects, demonstrations, visits to schools, and discussions on special problems in teaching social sciences. Prerequisite: Junior standing. Credit, three hours.

II. General History

200. **MODERN EUROPE.** A survey of the principal cultural, economic, and political developments in Europe since 1815; and an introduction to recent historical scholarship. Credit, three hours.

201-202. **HISTORY OF THE UNITED STATES.** The first semester covers the period from 1492 to 1865; the second, the period from 1865 to the present. Cultural and economic developments are given adequate emphasis. Credit, three hours.

III. Advanced United States History

303. **COLONIAL AMERICA.** A study of the settlement and colonization of North America, the American Revolution, and the formation of the national government, with emphasis on the cultural, economic, and political influences of the period. Credit, three hours.

308. **DIPLOMATIC HISTORY OF THE UNITED STATES.** A history of American diplomacy from the Revolutionary War to the present, with attention to domestic and foreign influences. Offered in alternate years. Credit, three hours.

310. **SOCIAL AND ECONOMIC HISTORY OF THE UNITED STATES.** A study of the social and economic development of the nation, with special attention to the post-Civil War period. Credit, three hours.

402. **CONSTITUTIONAL HISTORY OF THE UNITED STATES.** A study of the development of the constitutional system of the nation, primarily through judicial interpretation, against the cultural, economic, and political background. Credit, three hours. (See Political Science 315)

403. **THE CIVIL WAR AND RECONSTRUCTION.** An intensive study of the impact of the Civil War and its consequences upon American civilization. Offered in alternate years. Credit, three hours.

IV. Advanced Foreign History

301. **ENGLAND TO 1688.** The founding of the English national state: its political, economic, and cultural growth as the background of further expansion. Credit, three hours.

302. **ENGLAND AND THE BRITISH COMMONWEALTH FROM 1688.** Political, economic, and cultural growth of modern England and the Commonwealth. Credit, three hours.

306. **SOCIAL AND CULTURAL HISTORY OF EAST ASIA.** A survey of East Asian culture and institutions with special reference to their development in China and India and their diffusion in other East Asian countries. A sense of "history as source" will be developed by use, partly, of selected passages from original Asian documents in translation. International cultural relations, as well as literature, ideas, political and social life will be emphasized. Credit, three hours.

307. **MODERN EAST ASIA.** Following a rapid survey of Chinese, Indian, Japanese, and Korean history from ancient times to the end of the 18th century, this course deals with the "opening" of China and Japan, the intensified international relations, cultural, economic and political between the West and Asia; Russia and the Western Powers in Asia; cultural progress in East Asian countries; rebellions, reforms, and revolutions in China; modern Japan and its expansion in the twentieth century; independence of India and other East Asian countries. Credit, three hours.

313. **LATIN AMERICA TO 1824.** The history of Latin America from pre-Columbian times through the wars for independence. Credit, three hours.

314. **LATIN AMERICA SINCE 1824.** The history of Latin America since independence, with special emphasis on conditions today, including the relations of Latin America with the United States and the rest of the world. Credit, three hours.

401. **CONTEMPORARY CIVILIZATION.** A study of major trends and developments in the world today. Special attention is given to technological developments, population growth, the emergent nations, regional integration, and international organization. Credit, three hours.

POLITICAL SCIENCE

103. **INTRODUCTION TO GOVERNMENT.** A study of the basic concepts, forms, functions, and techniques of government and politics and an introduction to approaches to the study of political behavior. Credit, three hours.

200. **INTRODUCTION TO RESEARCH.** Methodological orientation as to empirical research in political science, including conceptualization, data sources, validation, quantification, analysis, reporting, and computer applications. Prerequisite: Political Science 103. Credit, three hours.

211. **NATIONAL GOVERNMENT OF THE UNITED STATES.** A survey of the constitutional framework and major aspects of the political process at the national level. Prerequisite: Political Science 103 or take simultaneously. Credit, three hours.

212. **AMERICAN, STATE AND LOCAL GOVERNMENT.** A survey of government and politics at the state and local levels in the United States, with emphasis on Delaware and neighboring states. Prerequisite: Political Science 103. Credit, three hours.

221-222. **COMPARATIVE GOVERNMENT, I and II.** A study of selected groups of political systems which share common characteristics and experiences, treating different groups each semester. Prerequisite: Political Science 103. Credit, three hours each.

242. **INTERNATIONAL RELATIONS.** An introduction to world politics, emphasizing the principles of state capability, diplomacy, and foreign policy, and treating contemporary trends and issues. Prerequisite: Political Science 103. Credit, three hours.

308. **POLITICAL IDEOLOGIES AND MOVEMENTS.** A study of political values and ideas in relation to the origins, development, strategies, and consequences of actual political movements occurring since 1750. Prerequisite: Political Science 103. Credit, three hours.

315. **CONSTITUTIONAL LAW.** A study of the development of the constitutional system of the United States, primarily through judicial interpretation, in the context of the economic, social, and political background. Prerequisite: Consent of the instructor. Open to history majors in lieu of History 402. Credit, three hours.

326. **POLITICS AND ELECTIONS.** A study of party systems, representation, interest groups, and electoral systems in different political environments. Prerequisite: Political Science 103. Credit, three hours.

THE DEPARTMENT OF HOME ECONOMICS

Programs for all home economics majors are directed toward educating prospective teachers to prepare students for homemaking responsibilities and activities necessary to achieve family well being; preparing prospective teachers for helping family members improve the quality of their home life through more thoughtful and efficient development and utilization of human and material resources.

The Department also guides prospective teachers in contributing to the education of youth so they are better able to meet present and future

needs related to their emotional health, physical development, social growth, aptitudes, and ambitions. Finally, a basic foundation of knowledge which will enable the students to pursue careers in the many areas of home economics is given.

Students majoring in Home Economics may follow one of two curricula: Home Economics or Home Economics Education.

CURRICULUM IN HOME ECONOMICS

Freshman Year

First Semester	Hours	Second Semester	Hours
English 101	3	English 102	3
Biology 101	4	Mathematics 102	3
Mathematics 101	3	Art 101	2
Education 101	1	History 102	3
Home Economics 101	3	Art 102	2
History 101	3	Home Economics 102	3
	17		16

Sophomore Year

First Semester	Hours	Second Semester	Hours
Health Education 101	2	Home Economics 106	3
Humanities 201	4	Humanities 202	4
Chemistry 103	4	Chemistry 104	3
Psychology 201	3	Psychology 204	2
Home Economics 203	3	English 200	2
Physical Education 100	1	Physical Education Elective (100 Level)	1
	17		17

Junior Year

First Semester	Hours	Second Semester	Hours
Home Economics 301	3	Home Economics 204	3
Home Economics 309	3	Home Economics 308	3
Sociology 201	3	Home Economics 318	3
Business 205	3	Home Economics 320	3
Biology 305	4	Biology 204	3
Physical Education Elective (100 Level)	1	Physical Education Elective (100 Level)	1
	17	History 104	1
			17

Senior Year

First Semester	Hours	Second Semester	Hours
Home Economics 303	3	Home Economics 404	6
Home Economics 401	3	Home Economics 406	6
Home Economics 403	3		
Home Economics 407	3		
Home Economics 409	3		
Music 101	2		
	17		12

CURRICULUM IN HOME ECONOMICS EDUCATION

Freshman Year

First Semester	Hours	Second Semester	Hours
English 101	3	English 102	3
Biology 101	4	Home Economics 102	3
Mathematics 101	3	Home Economics 104	3
Education 101	1	Mathematics 102	3
Home Economics 101	3	History 102	3
History 101	3		
	17		15

Sophomore Year

First Semester	Hours	Second Semester	Hours
Home Economics 203	3	Home Economics 106	3
Health Education 101	2	Home Economics 204	3
Humanities 201	4	Humanities 202	4
Chemistry 103	4	Chemistry 104	4
Psychology 201	3	Psychology 204	3
Physical Education 100	1	Physical Education Elective (100 Level)	1
	17		18

Junior Year

First Semester	Hours	Second Semester	Hours
Home Economics 301	3	Home Economics 302	3
Home Economics 303	3	Home Economics 304	3
Home Economics 309	3	Home Economics 314	3
Psychology 305	3	Home Economics 316	3
Sociology 201	3	Education 306	3
History 104	1	Art 101	2
Physical Education Elective (100 Level)	1	Physical Education Elective (100 Level)	1
	17		18

Senior Year

First Semester	Hours	Second Semester	Hours
Education 307	3	Home Economics 406	6
English 200	2	Education 412H	8
Music 101	2		
Art 102	2		
Biology 305	4		
Home Economics 405	3		
	16		14

HOME ECONOMICS

101. **PERSONAL AND FAMILY RELATIONSHIPS.** A study of personal problems and relationships including relationships with the opposite sex. A study of the functions of dating, courtship, the engagement period and basis for mate selection. Evaluation of personal, social, and economic life as they affect family and group living. Three lectures per week. Credit, three hours.

102. **INTRODUCTORY FOODS.** A study of the various types of foods found on the market and in common use today, their nutritional value and methods of cookery as they promote good nutrition. An analysis of the practicability of their use in today's diet. One lecture and two laboratory periods per week. Credit, three hours.

104. **CLOTHING AND TEXTILES.** The study of textiles including their identification, handling, and care with emphasis on the man-made fibers now used in designing and constructing clothing. A study of wardrobe planning, clothing selections, and the use of commercial patterns in constructing a simple garment. One lecture and two laboratory periods per week. Credit, three hours.

106. **COLOR AND DESIGN.** A basic course in art consisting of a study of the principles of art and the fundamentals of line and design. One lecture and two laboratory periods per week. Credit, three hours.

203. **MEAL MANAGEMENT.** A study of nutritious meals for families of different income levels and management problems related to the family

group. Comparison of commercially and home prepared foods and evaluation of grades and standards. Planning, preparing, and serving foods for special occasions. One lecture and two laboratory periods per week. Credit, three hours.

204. **CLOTHING FOR THE FAMILY.** Adaptation of style to the individual. Practical experience in selection, care, and construction of garments for all members of the family. Attention to clothing and grooming needs and purchasing techniques for the entire family. One lecture and two laboratory periods per week. Credit, three hours.

301. **NUTRITION.** A study of the processes by which food is absorbed and utilized by the body. Two lectures and one laboratory period per week. Credit, three hours.

302. **ART APPLIED TO DAILY LIVING.** An application of artistic ability to enhance personal surroundings. Use of textiles, wood, leather, clay, ceramics, and other materials as decorative media for the home and for personal use. One lecture and two laboratory periods per week. Credit, three hours.

303. **MANAGEMENT IN RELATIONSHIP TO HOME FURNISHING AND EQUIPMENT.** Selection, arrangement, use, and care of household equipment and supplies. Evaluation of construction of equipment as well as the procedures to be used in its care in the home. Study of time, effort, and energy expenditures in working with the equipment of the household and the ways in which height and arrangement assist in saving labor. Home and community sanitation; planning and care of home surroundings. One lecture and two laboratory periods per week. Credit, three hours.

304. **HOUSE PLANNING AND FURNISHING.** Study of houses and their environments in relation to family development. Observation of homes as a basis for planning conveniences, attractiveness, and economy for all activities in family living. Experience in securing and furnishing a house; consumer's problems in selecting, purchasing, and furnishing a home. One lecture and two laboratory periods per week. Credit, three hours.

307. **HOME CARE OF THE SICK.** General home care of the sick; use of simple and improvised sick room appliances, and first aid. One lecture and one laboratory period per week. Credit, two hours.

308. **NUTRITION AND DIETETICS.** An application of the fundamental principles of nutrition to feeding individuals and families under varying physiological and social conditions. Two lectures and one laboratory period per week. Prerequisite: Home Economics 301. Credit, three hours.

309. **FAMILY ECONOMICS.** Study, experimentation, and discussion of the consumer's part in the marketing system and problems arising in the selection, purchasing, and care of household and personal commodities. Special reports and shopping projects. Three lectures per week. Credit, three hours.

310. **PRE-COMMERCIAL SEWING.** This course is designed to give students training, knowledge, and skill in shop techniques. Emphasis is placed on power machine operation and factory techniques. Some practice is given in renovation and making of household furnishings, such as slip covers, draperies, and curtains. One lecture and two laboratory periods per week. Credit, three hours.

314. **CHILD DEVELOPMENT AND CARE.** Physical, social, emotional, and mental development of children from conception to six years. Observation in the Nursery School. Three lectures per week. Credit, three hours.

316. **THE NURSERY SCHOOL.** The organization of a play school. Observation of children in the home and play school. Participation in directing the activities of pre-school children. Class hours by arrangement. Two 150-minute laboratory periods per week. Credit, three hours.

318. **FOOD ANALYSIS.** The chemical analysis of foods. One lecture and two laboratory periods per week. Prerequisites: Chemistry 103-104. Credit, three hours.

320. **ADVANCED FOODS.** Special emphasis on the development of skill and creativity in preparation of foods, a study of economy in relation to food preparation. A study of demonstration techniques as applied to foods and household appliances. One lecture and two laboratory periods per week. Prerequisites: Home Economics 102 and 203. Credit, three hours.

401. **INSTITUTIONAL MANAGEMENT.** A study of the methods of scientific organization and management of foods and housekeeping departments in institutions, including the purchase and care of equipment. Opportunity is given for practice in the various phases of management. Three lectures per week. Prerequisites: Home Economics 203, 301, 318, and 320. Credit, three hours.

403. **DIET THERAPY.** A study of dietary modifications necessary in the treatment of pathologic conditions. Preparation of specific diets for certain diseases and nutritional disorders. One lecture and two laboratory periods per week. Credit, three hours.

404. **INSTITUTIONAL FIELDWORK.** A continuation of Home Economics 401 with opportunity given for field work in hospitals, schools, and restaurants for a period of six weeks. Credit, six hours.

405. **ADVANCED CLOTHING.** Tailoring of a suit or coat. Construction of a suit blouse, followed by draping a simple garment. Comparison of factory and custom made garments. Prerequisite: Home Economics 204 or consent of instructor. One lecture and two laboratory periods per week. Credit, three hours.

406. **HOME MANAGEMENT HOUSE.** Theory and practice in home management in a situation in which students live together as a family for at least six consecutive weeks, having full responsibility for routine

202. CALCULUS WITH ANALYTIC GEOMETRY II. A continuation of Mathematics 201 covering conic sections, the definite integral, derivatives of transcendental functions, and formal integration. Prerequisite: Mathematics 201. Credit, three hours.

203. COLLEGE GEOMETRY. Extension of elementary geometry. A postulational treatment of the geometry of planes and space including incidence geometry, congruence, convex sets, separation of planes and space, similarity, and ruler and compass constructions. Prerequisite: Mathematics 104 or its equivalent. Offered in even alternate years. Credit, three hours.

204. NON-EUCLIDEAN GEOMETRY. A treatment of Euclid's parallel postulate, nature of proof, characteristics of a mathematical system, Lobachevskian geometry, and Riemannian geometry. Prerequisite: Mathematics 203. Offered in even alternate years. Credit, three hours.

205. CALCULUS WITH ANALYTIC GEOMETRY III. A treatment of differentials, numerical integration, parametric equations, polar coordinates, infinite series, and applications. Prerequisite: Mathematics 202. Credit, three hours.

206. CALCULUS WITH ANALYTIC GEOMETRY IV. A treatment of solid analytic geometry, partial differentiation, and multiple integrals. Prerequisite: Mathematics 205. Credit, three hours.

208. INTRODUCTION TO COMPUTING. Organization and solution of problems using a digital computer. Major emphasis will be placed on the use of Fortran as a programming language. Prerequisite: Mathematics 201. Credit, three hours.

301. DIFFERENTIAL EQUATIONS. Solutions of ordinary differential equations and their applications to various types of problems. Prerequisite: Mathematics 205. Credit, three hours.

302. LINEAR ALGEBRA. A treatment of vectors, matrices and determinants, linear transformations, and applications. Prerequisite: Mathematics 202. Credit, three hours.

303. THEORY OF PROBABILITY. Fundamentals of combinatorial analysis, events, conditional probability, and statistical independence; binomial, normal, and Poisson distributions, law of large numbers. Prerequisite: Mathematics 202. Credit, three hours.

401-402. ADVANCED CALCULUS. Review of fundamental topics, continuity, improper integrals, line and surface integrals, gamma and beta functions, power and Fourier series. Prerequisite: Mathematics 206. Credit, six hours.

498-499. SEMINAR IN MATHEMATICS. A discussion of selected topics in mathematics. Prerequisite: Consent of the Department. Credit, four hours.

THE DEPARTMENT OF MUSIC EDUCATION

The Department of Music Education prepares students for positions as music teachers in elementary and secondary schools and for graduate study; offers the courses in music education needed by prospective elementary school teachers; provides programs designed to stimulate the development of musical understanding and appreciation; and offers opportunities for students majoring in other areas who are interested in music to take courses and participate in musical activities.

For a major in Music Education, thirty-three hours distributed as follows are required: Music Education 103-104, 113, 114, 202, 213, 214, 302, 303-304, 310 or 317, 311, 312, 313, 314, 321, 401, 403 and 410.

In addition, all music education majors are required to study a major performing medium eight semesters; to study a minor performing medium four semesters; to attend Departmental meetings of Music Education majors, music seminars and lyceum features; and to participate in student recitals.

Students selecting a major performing medium other than piano are required to take piano as a minor performing medium.

Students selecting piano or voice as a major performing medium are required to participate in choir eight semesters, to participate in band two semesters, and to study an instrument for two semesters.

Students selecting an instrument as a major performing medium are required to participate in band eight semesters, to participate in choir two semesters, and to study voice for two semesters.

CURRICULUM IN MUSIC EDUCATION

Freshman Year

First Semester	Hours	Second Semester	Hours
Biology 101	4	Biology 102	4
History 101	3	History 102	3
English 101	3	English 102	3
Physical Education 100	1	Physical Education Elective (100 Level)	1
Music Education 105	1	Health Education 101	2
Music Education 107 or 115	1	Music Education 106	1
Music Education 105 (piano)	1	Music Education 108 or 116	1
Music Education 113	2	Music Education 106 (piano)	1
Education 101	1	Music Education 114	2
	17		18

Sophomore Year

First Semester	Hours	Second Semester	Hours
Humanities 201	4	Humanities 202	4
Foreign Language 101	3	Foreign Language 102	3
Psychology 201	3	Education 204	3
Music Education 213	2	Music Education 214	2
Music Education 103	1	Music Education 104	1
Music Education 205	1	Music Education 206	1
Music Education 207 or 215	1	Music Education 208 or 216	1
Music Education 205 (piano)	1	Music Education 206 (piano)	1
Physical Education Elective (100 Level)	1	Physical Education Elective (100 Level)	1
	17		17

Junior Year

First Semester	Hours	Second Semester	Hours
Mathematics 101	3	Mathematics 102	3
Foreign Language 201	3	Foreign Language 202	3
History 201	3	History 104	1
Music Education 312	1	Psychology 204	3
Music Education 313	1	Music Education 202	3
Music Education 310 or 317	2	Music Education 306	1
Music Education 321	2	Music Education 106	1
Music Education 105	1	Music Education 322	2
Music Education 305	1	Music Education 308 or 316	1
Music Education 307 or 315	1		
	18		18

Senior Year

First Semester	Hours	Second Semester	Hours
Education 411	1	Education 412	8
English 200	2	Music Education 304	3
Music Education 303	3	Music Education 410 or 413	3
Music Education 405	1	Music Education 406	1
Music Education 407	1	Music Education 408	1
Music Education 302	3	Music Education 416	1
Music Education 211	1		
Music Education 401	1		
Music Education 403	1		
Music Education 415	1		
Music Education 314	1		
	16		17

MUSIC EDUCATION

101. INTRODUCTION TO MUSIC. A course designed to acquaint non-music majors with the broad field of music. Emphasis is placed upon the development of musical interests and elementary skills in music reading and writing through participation and listening. Credit, two hours.

103-104. SIGHT SINGING AND DICTATION. A practical course developing the ability to sing at sight fluently and the power to visualize, see and write music through dictation both melodic and harmonic. A study of the principles of tone and rhythm and their recognition through the aural sense. Credit, two hours.

105-106, 205-206, 305-306, 405-406. APPLIED MUSIC. Instrumental, keyboard, and vocal instruction in applied music. The development of performing skills is a basic requirement. Applied music instructions are offered individually and in small groups.

Students are required to study their major performing medium individually in private lessons. Those studying applied music as a minor medium may elect, under certain conditions and with special permission, study in small groups. Students taking applied music for credit will be required in all cases to study with members of the departmental faculty. Credit, one hour.

107-108, 207-208, 307-308, 407-408. CHORUS. A study of choral works with emphasis on reading, interpretation, tone quality, enunciation and diction. Three meetings per week. Credit, one hour.

113. BASIC THEORY. A course in the fundamentals of music; notation, terminology, voice classification, and study of the elements of music; scale, rhythm, and tempo. Two meetings per week. Credit, two hours.

114. ELEMENTARY THEORY. Chord structure, inversion, dominant seventh, dominant ninth, and the use of the primary and secondary chords in all forms. Two meetings per week. Credit, two hours.

115-116, 215-216, 315-316, 415-416. BAND. First semester-marching band: formation drill and the techniques of Football Half-Time Shows. Second semester-concert band: study of concert literature, performance techniques and repertoire. Three meetings per week. Credit, one hour.

201. PUBLIC SCHOOL MUSIC-FUNDAMENTALS. Ear training and sight singing, relative pitch, notation and study of rhythms, intervals in major and minor modes, key signatures and dictation. Designed for non-music majors. Credit, two hours.

202. PUBLIC SCHOOL MUSIC-METHODS AND MATERIALS. A study of the child's singing voice in the primary and intermediate grades, matching tones, the treatment of monotones, methods of presenting rote songs; methods of presenting rhythm through simple interpretation and rhythm band. Introduction to note singing, and materials for the child's singing voice. Prerequisite: (Non-Music Major): Music 201. Credit, three hours.

213. INTERMEDIATE THEORY. The use of non-harmonic tones, borrowed tones, the augmented sixth chords, enharmonic embellishments, chromatic progression of seventh chords, and advanced modulation. Three meetings per week. Credit, two hours.

214. ADVANCED THEORY. A course in harmonization, modulation, improvisation, and transposition at the keyboard. Three meetings per week. Credit, two hours.

302. MATERIALS AND METHODS. A study of music courses for junior and senior high schools. Problems of organization, methods, materials, voice classification, music clubs, assembly and routine work are considered. A list of music suitable for carrying on the various activities is compiled. Credit, three hours.

303-304. MUSIC HISTORY AND LITERATURE. A chronological study of Western music from pre-Christian times through the Renaissance with emphasis on the evolution of forms, styles and music is covered the first semester. The second semester involves a chronological study of Western music from the Early Baroque to the present. Credit, six hours.

310. CONDUCTING. The techniques of conducting with the baton. Problems of score reading and transposition are stressed. Instruction, demonstration, and practice. Credit, two hours.

311. **BRASSES.** A practical study of the brass instruments with emphasis on the cornet. Credit, one hour.

312. **STRINGS.** A practical study of the string choir with emphasis on the violin. Credit, one hour.

313. **PERCUSSION.** A practical study of the percussion instruments with emphasis on the snare drum. Credit, one hour.

314. **WOODWINDS.** A practical study of the woodwind instruments with emphasis on the clarinet. Credit, one hour.

317. **VOCAL CONDUCTING.** The techniques of conducting choral organizations. Stress is placed upon basic patterns of beating time, expressive and non-expressive gestures, cues, dynamics and interpretation. Credit, two hours.

321-322. **COUNTERPOINT.** A study of the various orders, imitation, thematic construction, analysis with practical written exercises in various contrapuntal forms. Credit, four hours.

401. **VOCAL METHODS.** A study of vocal fundamentals including diction, intonation, tone quality, and breath control. Choral literature and techniques of teaching are stressed. Credit, one hour.

403. **INSTRUMENTAL METHODS.** A study of instrumental materials for all grades, problems of intonation, tone quality, balance, and rehearsal techniques. Public performance preparation, programs, festivals, and adjudication are discussed. Credit, one hour.

410. **ORCHESTRATION.** A study of the fundamentals of writing for orchestral instruments. Registration, instrumentation, voicings, and technical limitations are considered. Problems of writing for the various combinations with reference to the needs of the public school are emphasized. Credit, three hours.

413. **ARRANGING.** A study of the fundamentals of writing for the various band instruments. Problems of transposition, voicing, registration and blend with reference to the needs of the public school ensemble are included. Credit, two hours.

THE DEPARTMENT OF PHILOSOPHY

The objectives of the Department of Philosophy are to deepen the student's interest in and understanding of fundamental problems of meaning and experience to provide the student with the intellectual tools for critical, objective thinking; and to guide the student toward a coherent and comprehensive organization of experience.

PHILOSOPHY

201. **INTRODUCTION TO PHILOSOPHY.** Critical examination of fundamental beliefs and methods of inquiry in science, religion, and everyday life. Investigation of basic problems of reality, knowledge, value, freedom, and concepts of God. Credit, three hours.

202. **ETHICS** (Formerly Philosophy 203). Examination of the principles of obligation and conduct which are applied in making moral decisions, and of the major conceptions of the good life. Discussion of basic problems: egoism and altruism; freedom and determinism; definition and relationship of "good" and "ought"; the nature of ethical judgment. Credit, three hours.

203. **RELIGIONS OF MANKIND** (Formerly Philosophy 202). A study of the origins, founders, and basic concepts of the major religions of mankind. Designed to give the student an appreciation of the role of religion in the history of the world. Credit, three hours.

204. **LOGIC.** A study of the principles which govern sound thinking, both deductive and inductive. Credit, three hours.

301. **HISTORY OF PHILOSOPHY, ANCIENT AND MEDIEVAL.** Examination of the great movements of philosophic thought from the Greek period through scholasticism. Special attention will be given to Socrates, Plato, Aristotle, and Plotinus. Prerequisite: Philosophy 201. Credit, three hours.

302. **HISTORY OF PHILOSOPHY, MODERN.** A study of the development of Western Philosophy from the seventeenth to the nineteenth centuries with particular attention to the thought of Descartes, Spinoza, Leibniz, Locke, Berkeley, Hume, and Kant. Prerequisite: Philosophy 201. Credit, three hours.

303. **AESTHETICS.** Examination of the experience of beauty in nature and art. Analysis of theories of meaning and value in art. Offered in odd alternate years. Credit, three hours.

304. **POLITICAL PHILOSOPHY** (Formerly Philosophy 301). Historical account and analysis of political concepts of Western thought. Offered in even alternate years. Credit, three hours.

401. **ORIENTAL PHILOSOPHY.** A study of the major philosophical ideas of Asia. Offered in odd alternate years. Credit, three hours.

402. **PHILOSOPHY OF RELIGION.** Systematic study of issues of philosophical import in the area of religion such as the existence of God, evil, freedom, faith, immortality, and the possibility of religious knowledge. Prerequisite: Philosophy 201. Credit, three hours.

403. **SYMBOLIC LOGIC.** The elements of symbolic logic, including the calculus of propositions, functions, and classes. Offered in even years. Credit, three hours.

404. **PHILOSOPHY OF SCIENCE.** Critical analysis of the foundations, methodology, and implications of science. Prerequisite: Philosophy 201. Credit, three hours.

405. **PHILOSOPHY OF EDUCATION.** Philosophical examination of contemporary problems of educational thought, as well as of major theories of the principles, methods, and purpose of education. Credit, three hours.

THE DEPARTMENT OF PHYSICS AND ASTRONOMY

The Department of Physics and Astronomy seeks to provide a thorough training in physics for the student desiring to prepare for a career as a physicist in industry and research laboratories or as a teacher of physics in secondary schools. The Department also provides a major in physics with the courses required for graduate study. Course offerings are available to majors in other areas who wish supplemental training in specific aspects of physics.

For a major in Physics, thirty-nine hours distributed as follows are required: Physics 201-202, 301-302, 303-304, 305, 306, 401-402, 404 and 408.

For a teaching major in Physics, twenty-five hours distributed as follows are required: Physics 201-202, 303-304, 401-402 and Astronomy 101.

For a minor in Physics, twenty-two hours distributed as follows are required: Physics 201-202, 303-304, and 401-402.

CURRICULUM IN PHYSICS

Freshman Year

First Semester	Hours	Second Semester	Hours
Chemistry 101	4	Chemistry 102	4
Education 101	1	Health Education 101	2
English 101	3	English 102	3
French 101, German 101, or Russian 101	3	French 102, German 102, or Russian 102	3
History 101	3	History 102	3
Mathematics 101	3	Mathematics 104	3
Physical Education 100	1	Physical Education Elective (100 Level)	1
	18		19

Sophomore Year

First Semester	Hours	Second Semester	Hours
French 201, German 201, or Russian 201	3	French 202, German 202, or Russian 202	3
Humanities 201	4	Humanities 202	4
Mathematics 201	3	Mathematics 202	3
Physics 201	4	Physics 202	4
Physical Education Elective (100 Level)	1	Physical Education Elective (100 Level)	1
	15		15

Junior Year

First Semester	Hours	Second Semester	Hours
English 200	2	Mathematics 206	3
History 104	1	Physics 302	3
Mathematics 205	3	Physics 304	3
Physics 301	3	Psychology 201	3
Physics 303	3	Elective	3
Elective (Social Science 201)	3		
	15		15

Senior Year

First Semester	Hours	Second Semester	Hours
Mathematics 301	3	Mathematics 402	3
Mathematics 401	3	Physics 306	3
Physics 305	3	Physics 402	4
Physics 401	4	Physics 404	3
Elective	3	Physics 408	2
	16		15

CURRICULUM IN PHYSICS FOR A TEACHING MAJOR

Freshman Year

First Semester	Hours	Second Semester	Hours
Biology 101	4	Biology 102	4
Chemistry 101	4	Chemistry 102	4
Education 101	1	Health Education 101	2
English 101	3	English 102	3
Mathematics 101	3	Mathematics 104	3
Physical Education 100	1	Physical Education Elective (100 Level)	1
	16		17

Sophomore Year

First Semester	Hours	Second Semester	Hours
History 101	3	History 102	3
Humanities 201	4	Humanities 202	4
Mathematics 201	3	Mathematics 202	3
Physical Education Elective (100 Level)	1	Physical Education Elective (100 Level)	1
Physics 201	4	Physics 202	4
Psychology 201	3	Psychology 204	3
	18		18

Junior Year

First Semester	Hours	Second Semester	Hours
Education 343	3	Education 204	3
History 104	1	Education 312	3
Mathematics 205	3	Mathematics 206	3
Physics 303	3	Physics 304	3
Psychology 303	3	Psychology 302	3
Psychology 305	3	*Elective	3
*Elective	3		
	19		18

Senior Year

First Semester	Hours	Second Semester	Hours
Education 405	3	Education 412	8
Education 411	1	Physics 402	4
Astronomy 101	3		
English 200	2		
Mathematics 301	3		
Physics 401	4		
*Elective	3		
	19		12

*These electives must be selected so as to satisfy six hours of the Humanities electives and a three-hour Social Science elective from the College General Education Program.

ASTRONOMY

101. INTRODUCTORY ASTRONOMY. A course designed for the general student who desires an acquaintance with the solar system, the motion and distribution of the stars, interstellar materials and other galaxies. The laboratory work of the course includes telescopic observations of the sun, moon and planets; observations with a classroom planetarium; and exercises with the celestial globe, star maps, and the plotting hemisphere. Two lectures and one laboratory period per week. Credit, three hours.

201. GENERAL ASTRONOMY. An elementary treatment of planetary motion, spectroscopy of stars, celestial mechanics, the dynamics of galaxies, cosmology, and astrophysics. Three lectures and one laboratory period per week. Prerequisites: Physics 201-202. Credit, four hours.

PHYSICAL SCIENCE

201. PHYSICAL SCIENCE SURVEY. A survey of the physical sciences covering the fundamental principles of astronomy, chemistry, geology, meteorology, and physics. Three lectures and one laboratory period per week. Credit, four hours.

PHYSICS

201-202. GENERAL PHYSICS. An elementary treatment of mechanics, wave motion and sound, light, electricity and magnetism, and nuclear reactions. The problem method is largely used. Two lectures, one recitation and two laboratory periods per week. Prerequisites: Mathematics 101 and 104. Credit, eight hours.

250. RADIOISOTOPES. A lecture and laboratory course designed to provide a theoretical and practical knowledge of radioisotopes. The lecture topics include properties of radiation, nuclear reactions, health physics, and applications of radioisotopes in research and industry. In the laboratory emphasis is placed on radiation detection and measurement with appropriate safety precautions. Two lectures and one laboratory period per week. Prerequisites: Mathematics 104 and Chemistry 101-102. Credit, three hours.

301-302. PHYSICAL MECHANICS. An intermediate course covering the mechanics of fluids, a particle and systems of particles, rigid bodies, constrained motion and oscillations. An introduction to generalized coordinates and Lagrange's Equations, Hamilton's Principle and Canonical Equations. Relativistic and wave mechanics is also considered. The vector method is emphasized. Three lectures and demonstrations per week. Prerequisites: Mathematics 201-202; Physics 201-202. Credit, six hours.

303-304. ATOMIC AND NUCLEAR PHYSICS. A course covering the structure of matter, quantum structure of light, relativity, X-rays, wave nature of matter, solid state, and nuclear structure. Two lectures and one laboratory period per week. Prerequisites: Mathematics 201-202; Physics 201-202. Credit, six hours.

305. HEAT AND THERMODYNAMICS. An intermediate course on the thermal phenomena involving gases and solids. The topics included are thermometry, calorimetry, specific heat, expansion heat transfer, introductory kinetic theory, laws of thermodynamics and applications. Three lectures and demonstrations per week. Prerequisites: Mathematics 201-202; Physics 201-202. Credit, three hours.

306. PHYSICAL OPTICS. An intermediate course in the fundamentals of physical optics. Topics included are theories of light, measurement of the speed of light, reflection, refraction, interference, diffraction, scattering, polarization and crystal optics, optical instruments and spectroscopy. Two lectures and one laboratory period per week. Prerequisites: Mathematics 201-202; Physics 201-202. Credit, three hours.

307. SOUND AND VIBRATION. An intermediate course in the fundamentals of periodic phenomena; wave motion in solid, liquid and gaseous media; and introductory acoustics. Two lectures and one laboratory period per week. Prerequisites: Mathematics 301, Physics 201-202. Credit, three hours.

401-402. THEORY OF ELECTRICITY AND MAGNETISM. An intermediate course in the theory of electricity and magnetism. Topics included are electrostatics, electrodynamics, current and alternating-current circuits, electromagnetic induction, dielectric theory, magnetic properties of matter, and Maxwell's Equations. The vector method is used. Three lectures and one laboratory period per week. Prerequisites: Mathematics 201-202; Physics 302 or 304. Credit, eight hours.

404. MATHEMATICAL METHODS OF PHYSICS. An intermediate course covering physical dimensions and fundamental units, potential theory, vectors, matrices, tensors, hydrodynamics, electromagnetic radiation, and boundary value problems in general. Three lectures per week. Prerequisites: Mathematics 301 and 401; Physics 301-302. Credit, three hours.

405-406. ELECTRONIC PHYSICS. An intermediate course in applied electronics. One lecture and two laboratory periods per week. Prerequisites: Physics 303-304. Credit, six hours.

407. QUANTUM MECHANICS. A course in the basic principles of quantum mechanics covering the Schrodinger equation, operators and transformation theory, angular momentum, atomic structure, and perturbation theory. Three lectures per week. Prerequisites: Mathematics 301; Physics 301-302 and 303-304. Credit, three hours.

408. **THEORETICAL AND EXPERIMENTAL RESEARCH.** A seminar course for senior physics majors covering selected topics on an intermediate level. Credit, two hours.

THE DEPARTMENT OF PSYCHOLOGY

The objectives of the Department of Psychology are to lay a broad foundation for graduate studies in psychology; to provide students of other departments with the fundamentals of human behavior; and to contribute to the field of psychology by the conduct of basic and applied research.

The Department offers courses required for state certification as a psychological examiner, some of the courses required for state certification as a school psychologist, and courses for students desirous of orientation in the field of psychology for general cultural development.

For a major in Psychology, thirty-five hours distributed as follows are required: Psychology 201, 204, 206, 207, 302, 303 or 305, 400, 412, 413, 420, 422, and 423.

CURRICULUM IN PSYCHOLOGY

Freshman Year

First Semester	Hours	Second Semester	Hours
Biology 101	4	Biology 102	4
Education 101	1	Health Education 101	2
History 101	3	History 102	3
English 101	3	English 102	3
Psychology 201	3	Psychology 204	3
Physical Education 100	1	Physical Education Elective (100 Level)	1
		History 104	1
	15		17

Sophomore Year

First Semester	Hours	Second Semester	Hours
French 101 or German 101	3	French 102 or German 102	3
Humanities 201	4	Humanities 202	4
Mathematics 101	3	Mathematics 102	3
Psychology 207	3	Psychology 206	3
Elective (Social Science 201)	3	Elective	3
Physical Education Elective (100 Level)	1	Physical Education Elective (100 Level)	1
	17		17

Junior Year

First Semester	Hours	Second Semester	Hours
English 200	2	French 202 or German 202	3
French 201 or German 201	3	Philosophy 201	3
Psychology 302	3	Psychology 400	3
Psychology 303 or 305	3	Psychology 412	3
Electives	6	Electives	6
	17		18

Senior Year

First Semester	Hours	Second Semester	Hours
Psychology 413	3	Psychology 420	2
Psychology 423	3	Psychology 422	3
Electives	9	Electives	7
	15		12

PSYCHOLOGY

101. **DEVELOPMENTAL READING.** Lecture and practice course in developing reading efficiency and abilities to the fullest extent possible. Areas of emphasis include critical reading skills, vocabulary enlargement, and versatility in reading. Credit, one hour.

201. **INTRODUCTION TO GENERAL PSYCHOLOGY.** A survey of several areas of psychological activity with emphasis on learning, perception, motivation, personality, physiological and neurological bases of behavior. Prerequisite to all other courses in psychology. Credit, three hours.

204. **EDUCATIONAL PSYCHOLOGY.** The analysis and application of principles of learning, motivation and teaching to contemporary educational problems. Credit, three hours.

206. **APPLIED PSYCHOLOGY.** The application of psychological principles to the various fields of life such as employment psychology, training, human engineering, psychopharmacology, advertising and consumer research and individual differences. Credit, three hours.

207. **SCIENTIFIC METHOD IN PSYCHOLOGY.** An examination of the scientific method and its application to the study of behavior. Credit, three hours.

208. **MENTAL HYGIENE.** A study of the problems of human adjustment with emphasis on causation and prevention of common maladjustments. Prerequisite: Psychology 201. Credit, three hours.

302. **EDUCATIONAL TESTS AND MEASUREMENTS.** A study of the major statistical concepts and techniques employed by the psychologist and the educator. Methods of test construction, evaluation and description of tests used in schools, clinics and industry are included. Credit, three hours.

303. **CHILD PSYCHOLOGY.** A thorough study of the development of individuals from birth to preadolescence including child care and the physical, emotional, intellectual, social and psychological factors of development. Credit, three hours.

305. **ADOLESCENT PSYCHOLOGY.** A study of individual development from puberty to late adolescence. Special attention is given to the psychological characteristics and problems peculiar to adolescence with emphasis on the evaluation and solution of such problems. Credit, three hours.

306. **PRINCIPLES OF HUMAN ENGINEERING.** A survey of the principles and techniques employed by the psychologist in the design of equipment. Credit, three hours.

308. **PERSONALITY.** Primary emphasis in this course is given to theories of personality and the assessment of personality. Freud's Psycho-analytic theory, Jung's Analytic, Murray's Biosocial Theory and

Social Psychological theories are among some of the theories discussed. Credit, three hours.

400. **EXPERIMENTAL PSYCHOLOGY.** A survey of the experimental methods and principles used in the design of experiments in psychology. Reading and interpretation of experimental literature in learning, social sensation and perception are stressed. Prerequisite: Psychology 207. Credit, three hours.

402. **ABNORMAL PSYCHOLOGY.** A study of mental disorders with emphasis on causes, symptoms, and treatment. Credit, three hours.

404. **PSYCHOLOGY OF EXCEPTIONAL CHILDREN.** An intense study of the problems of exceptional children including mental deficiency, the gifted child and neurological, physical and sensory defects of the individual. Credit, three hours.

409. **READING CLINIC PRACTICUM.** A laboratory course covering diagnosis, corrective and remedial procedures for dealing with various types of reading disabilities. Two laboratory periods per week. Credit, two hours.

411. **INTRODUCTION TO GUIDANCE AND COUNSELING.** An overview of guidance and counseling principles and techniques including tools and organization. Credit, three hours.

412. **PHYSIOLOGICAL PSYCHOLOGY.** A study of the biological foundations of behavior with emphasis on the nervous system as the major agency in the organization and unity of the individual. Prerequisite: Psychology 207. Credit, three hours.

413. **LEARNING AND MOTIVATION.** The role of learning and motivation in behavior. Credit, three hours.

416. **SOCIAL PSYCHOLOGY.** A study of the impact of social institutions on the behavior of the individual and the impact of the individual on the group including a discussion of attitudes, beliefs, public opinion, propaganda, leadership, prejudice, and international tension. Credit, three hours.

420. **RESEARCH SEMINAR.** A course designed to meet the needs of students who desire to do individual research. Prerequisites: Psychology 207 and 400. Open by permission of the instructor. Credit, two hours.

422. **HISTORY AND SYSTEMS OF PSYCHOLOGY.** A course covering the history of current viewpoints with emphasis on behaviorism, functionalism, gestalt psychology, and psychoanalysis. Designed primarily for students with considerable work in psychology. Prerequisites: Psychology 207, 400 and 413. Credit, three hours.

423. **ADVANCED STATISTICS.** A course covering simple and complex analyses of variance, correlational analyses and non-parametric statistics. Prerequisite: Psychology 302. Credit, three hours.

THE DEPARTMENT OF SOCIOLOGY AND ANTHROPOLOGY

The Department of Sociology and Anthropology offers a selection of courses devoted to the scientific study of human society. It offers students opportunities for developing the central core of a liberal education program and for preparing for entrance to graduate school and the school of social work. The Department also provides service courses for students majoring in other areas.

For a major in Sociology, twenty-seven hours including the following are required: Sociology 201, 202, 303, 401, 405, and 408.

CURRICULUM IN SOCIOLOGY

Freshman Year

First Semester	Hours	Second Semester	Hours
English 101	3	English 102	3
Biology 101 or Chemistry 101	4	Biology 102 or Chemistry 102	4
Mathematics 101	3	Mathematics 102	3
History 101	3	History 102	3
Education 101	1	Health Education 101	2
Physical Education 100	1	Physical Education Elective (100 Level)	1
	15		16

Sophomore Year

First Semester	Hours	Second Semester	Hours
Humanities 201	4	Humanities 202	4
Foreign Language 101	3	Foreign Language 102	3
Sociology 201	3	Sociology 202	3
Psychology 201	3	History 104	1
English 200	2	Elective	3
Physical Education Elective (100 Level)	1	Physical Education Elective (100 Level)	1
	16		15

Junior Year

First Semester	Hours	Second Semester	Hours
History 201	3	History 202	3
Foreign Language 201	3	Foreign Language 202	3
Sociology 303	3	Electives	9
Electives	6		
	15		15

Senior Year

First Semester	Hours	Second Semester	Hours
Sociology 401	3	Sociology 408	3
Sociology 405	3	Electives	12
Electives	9		
	15		15

SOCIOLOGY

201. **INTRODUCTION TO SOCIOLOGY.** Devoted to description and analysis of group life and to the development of a systematic conceptual framework. Credit, three hours.

202. **SOCIAL DEVIATION.** A sociological study of selected social problems, such as crime, juvenile delinquency, and alcoholism. Prerequisite: Sociology 201. Credit, three hours.

205. **ANTHROPOLOGY.** An introductory course. Surveys records of the emergence and development of man. Major emphasis is placed upon the development of culture. Credit, three hours.

301. **JUVENILE DELINQUENCY.** The delinquency problem. Factors associated with delinquency. Preventive measures. Rehabilitation. Prerequisites: Sociology 201 and 202 Credit, three hours.

302. **RURAL SOCIOLOGY.** The development of rural society in the United States. Analysis of change in rural society since World War II. Credit, three hours.

303. **CULTURE, SOCIETY AND PERSONALITY.** An intensive study of the factors and processes which shape the individual to group life. Prerequisites: Sociology 201 and 202. Credit, three hours.

304. **RACE RELATIONS.** A study of the basic nature of interracial relations. Analyzes problems connected with the larger minority groups in the United States. Prerequisite: Sociology 201. Credit, three hours.

305. **URBAN SOCIOLOGY.** The ecology, social processes, organization, and problems of the urban community. Recent developments are emphasized. Prerequisite: Sociology 201. Credit, three hours.

308. **CRIMINOLOGY.** The nature and extent of crime in the United States; theories of crime; problems of rehabilitation. Prerequisites: Sociology 201 and 202. Credit, three hours.

309. **LEADERSHIP AND RECREATION.** An attempt to meet the need for theoretical and practical preparation for work with children and youth. Social and psychological backgrounds of recreational problems; needs at different development levels; program building. Prerequisite: Sociology 201. Credit, three hours.

310. **SOCIAL STRATIFICATION.** Analysis of stratification theories and of major empirical researches in the area. Considers effects of social stratification in the United States. Prerequisites: Sociology 201, 202, 303, and junior or senior standing. Credit, three hours.

401. **THE FAMILY.** Historical evolution of the family; family structures and functions; current changes and problems. Prerequisites: Sociology 201, 202, and senior standing. Credit, three hours.

402. **COURTSHIP AND MARRIAGE.** Undertakes to develop knowledge, understanding, and attitudes which will enable youth to experience courtship and marriage constructively. Prerequisites: Sociology 201 and 202. Credit, three hours.

405. **THE FIELD OF SOCIAL WORK.** A systematic presentation of the major areas with an introduction to their general problems and techniques. Prerequisites: Sociology 201 and senior standing. Credit, three hours.

408. **SOCIOLOGICAL THEORIES.** Description and critical study of the more important sociological theories of the nineteenth and twentieth centuries. Prerequisites: Sociology 201 and senior standing. Credit, three hours.

412. **METHODS OF RESEARCH IN SOCIOLOGY.** An introduction to research problems, design, and procedures in sociology. Prerequisites: Sociology 201, 202, 303, and senior standing. Credit, three hours.

MILITARY SCIENCE

The objective of this course is to enable eligible students to remain in college and earn the Army rank of Second Lieutenant while retiring their military obligation.

Freshman Year			
First Semester	Hours	Second Semester	Hours
	None		None
Sophomore Year			
First Semester	Hours	Second Semester	Hours
	None		
		Indoctrination	2
		Military Courtesy and Customs	2
		Military Justice	1
		Maintenance and Cost Consciousness	1
		Drills and Ceremonies	5
		Field Sanitation and Personal Hygiene	1
		First Aid	2
		CBR and Atomic Warfare Indoctrination	2
		Guard Duty	2

Members will receive 10 weeks instruction in Basic Combat Training during the summer months at an active Army Installation.

Junior Year			
First Semester	Hours	Second Semester	Hours
Orientation	2	Inspections	5
Study Methods	2	Methods of Instruction	20
Military Leadership	16	Associate Arms	17
Drill and Command	18	Use of the Compass	2
Organization of ROAD Division	6	Communications	10
Inspection	4	Weapons Training	14
Map and Aerial Photo Reading	10		
	58		68

Senior Year			
First Semester	Hours	Second Semester	Hours
Infantry Division	5	Signal Communications	15
Methods of Instruction	20	Basic Medical Subjects, Intelligence, Combat Orders	16
Administration and Logistics	16	Motor Vehicle Operation	5
Military Law	5	Associate Arms	10
	46		46

Two-week summer period on campus immediately following graduation. Students who successfully complete this course will be appointed as Second Lieutenant on the last day of this period.

FIRST WEEK		SECOND WEEK	
Subject	Hours	Subject	Hours
Operation of US Property and Fiscal Office	4	Small Unit Tactics	34
Customs of the Service	1		
Efficiency Reports	2		
Enlistment and Military Obligation	2		
Class A Agent Finance	1		
Career Management	2		
Small Unit Tactics	23		
	35		34

INDOCTRINATION. An introduction and explanation of the conduct of Stages I and II of the Delaware National Guard Preparatory Course. Policies, procedures and areas of responsibility are reviewed in detail.

MILITARY COURTESY AND CUSTOMS. Conference which includes the customs of the service, proper conduct and individual responsibilities and obligations.

MILITARY JUSTICE. Conference covering the rights of the individual with respect to the provision of the Uniform Code of Military Justice.

MAINTENANCE AND COST CONSCIOUSNESS. Command responsibility for supply and resupply economy including a discussion of procedure for accomplishing proper care, preservation and conservation of clothing and equipment. Preventive maintenance, sources of maintenance information, and the need for continuing emphasis on cost consciousness.

FIELD SANITATION AND PERSONAL HYGIENE. The control of communicable disease through the use of improvised practical devices for water disposal, personal hygiene, water purification, and insect and rodent control and the prevention of nonbattle casualties.

FIRST AID. The importance of complete, realistic and continuous training in first aid, with emphasis on the use of field expedients to preserve life on the battle field under conventional, unconventional warfare.

CHEMICAL, BIOLOGICAL, RADIOLOGICAL AND ATOMIC WARFARE. Individual protection against CBR operations. Field decontamination procedures, medical and biological effects of nuclear weapons on personnel and the responsibilities of the commander for training in those areas.

GUARD DUTY. Purpose, duties and responsibilities of individuals concerned with guard duty. This period will consist of a conference and demonstration.

ORIENTATION. Conference covering the Standing Operating Procedures, policies and conduct of Stages III through VII of the Delaware National Guard Academy Officer Candidate School Preparatory Course and Officer Candidate School in non-ROTC Colleges.

STUDY METHODS. Explanation of the proper methods of study to insure maximum retention of material presented.

MILITARY LEADERSHIP. Concept of military leadership, problems of command and human behavior.

DRILL AND COMMAND. Conference and practical exercises on the subjects outlined in Army Field Manual 22-5 which includes the school of the soldier with and without his weapon and emphasis on development of a command voice.

ORGANIZATION OF ROAD DIVISION. The study of the squad, platoon and company structure within the Infantry, Armored, Mechanized and Airborne Divisions.

INSPECTIONS. Conferences and practical exercises in the proper procedure for conducting or participating in formal "in-ranks" inspections.

MAP AND AERIAL PHOTOGRAPH READING. Fundamentals and theory of map reading, land and night navigation, aerial photograph reading.

METHODS OF INSTRUCTION. Introduction to methods of instruction. Conferences on the various stages of preparation and instruction. Practical demonstration by each student.

ASSOCIATE ARMS. Conferences on combat and service branches of the Army to include Infantry, Armor, Artillery, Engineer. Orientation on Army Aviation and Special Forces.

USE OF THE COMPASS. Conference and practical exercise on the use of the lensatic compass.

COMMUNICATIONS. Conference and practical exercise in radio-telephone procedure, portable radio sets, wire communication, and a general study of infantry radio sets.

STUDENT ROSTER

CANDIDATES FOR THE DEGREE OF BACHELOR OF ARTS

Name	Major Field
Sondra Jean Allen	English
Tony James Ames	History
Barbara Joyce Badger	Sociology
Tyrone Belford	History
Ernestine Cynthia Brittingham	Sociology
Julius Campbell, Jr.	Sociology
Sandra Gladys Carter	English
Nayada Louise Dorsett	Sociology
Noble Clarkson Earl, IV	Sociology
Alexander Leroy Edomy	History
Paul Matthew Ellison	Sociology
Carolyn Elizabeth Faison	History
Judy P. Ferrell	Sociology
Jerry Conwell Flowers	English
Cassilda Miriam Gabbadon	Sociology
Delores Jane Gaines	English
Beverly Kyle Galloway	Sociology
Kenneth Robert Hale	Sociology
DeEdwin Hursey	History
Jo Ann Joyce Ives	History
Carolyn Shirley Jackson	History
Loretha Jefferson	English
Carolyn Theresa Johnson	Sociology
Janice Marcella Kersey	Sociology
James Scott King	History-English
Miles Laster	History
Theodore Foster Laws, Jr.	History
Patricia Ann Lawson	English
Maynard Leon Miles	English
M. Jeannette Myers	English
Loucius Norwood, II	Sociology
Thomas Edison Nottingham	History
Roberta Mae Peters	Sociology
Andrea Norris Plummer	Sociology
Marjorie Lucille Reynolds	Sociology
Deborah Jean Roberts	Sociology
Geraldine Emma Roberts	Sociology
Joseph Myers Saunders	History
Marlene Anita Saunders	Sociology
Barbara J. Sheridan	English
Shirley Jo Anne Shirer	Sociology
Edward Slaughter	Sociology

CANDIDATE FOR THE DEGREE OF BACHELOR OF ARTS (Continued)

Name	Major Field
Roland C. Stewart	History
Iris Jean Taylor	Sociology
Marvin Princellous Thomas	Sociology
Deloris Wanda Washington	English
Sandra Mary West	Sociology
Bessie M. White	History
Rita V. Woods	English

CANDIDATES FOR THE DEGREE OF BACHELOR OF SCIENCE

Name	Major Field
Mayola Marie Allen	Elementary Education
Linda Grace Anderson	Elementary Education
Clarence Harvey Bagwell	Business Administration
John Barber, Jr.	Business Administration
Doris Ann Betner	Business Education
Gloria Jean Blake	Psychology
Grace Washam Bowles	Music Education
Grover Lee Boyd	Business Administration
Clarence Brown	Business Administration
Donald Linwood Brown	Mathematics
Rhoda Malinda Brown	Chemistry
William Ronald Brown	Psychology
Ellene Ann Burbage	Business Education
William Doman Butcher	Business Administration
Carole Diane Calloway	Business Education
Louvenia Inez Collins	Mathematics
Charles Edward Conaway	Economics
Ernest Maxwell Congo	Business Administration
Carol Elaine Craig	Elementary Education
Roland Hewitt Daniels	Health and Physical Education
Michael Davis	Business Education
Betty Lingo Dickens	Business Education
Michael Jeanne Dixon	Health and Physical Education
Shirley Marie Eason	Music Education
Duncan Oliver Elder	Business Administration
Jarrett Everett Engrum	Elementary Education
Phyllis Edwina Ervin	Elementary Education
Dolores Marie Fountain	Secretarial Science
Delores Louise Freeman	Elementary Education
Charles George Gleadow	Physical Education (Medically Allied Fields)
Bernadette Corsey Graham	Business Education
Gary Dean Gray	Elementary Education

CANDIDATES FOR THE DEGREE OF BACHELOR OF SCIENCE
(Continued)

Name	Major Field
Geneva Laverne Green	Elementary Education
Earl Herberto Harley	Chemistry
Patricia Ellen Harris	Elementary Education
Preston T. Hebron, Jr.	Elementary Education
Ina Ellen Hobbs	Business Administration
Berlin N. Hollingsworth	Business Administration
Alonzo Thomas Hunter	Biology
Samuel Hunter	Biology
Isaac Evans Jackson	Agriculture
James Clifton Jackson	Business Administration
Linda Jackson	Health and Physical Education
Mary Magdalene Jackson	Elementary Education
Robert Stenton Jackson	Biology
Juanita Jacobs	Elementary Education
Patricia Ann Jefferson	Business Education
Phyllis Jenkins	Elementary Education
Clarise Marie Johnson	Chemistry
Theodore Lloyd Johnson	Business Administration
Robert Malcolm Keen	Elementary Education
Donald Lee	Business Administration
Thomas Bassey Leecost, Jr.	Chemistry
Ruth Evelyn Little	Home Economics Education
David McKinley Marshall	Business Administration
Rachel Covington Marshall	Business Education
Claudia V. Maxwell	Elementary Education
Leola Mays	Elementary Education
Sandra Ann McCullough	Biology
Kathleen McGuire	Elementary Education
Mary Elizabeth McKnight	Health and Physical Education
Diane Maria Middlebrooks	Business Administration
Sherman Nathaniel Miller	Mathematics
Janet Ellen Mitchell	Elementary Education
Constance Ilene Moody	Elementary Education
Norman Nathaniel Moore	Business Administration
Anthony Myles Overton, Jr.	Biology
Brock Louis Parker	Mathematics
Doris Ann Peters	Elementary Education
Robert Douglas Pinckney	Health and Physical Education
William Maurice Pitts	Elementary Education
Wanza Norman Poole	Health and Physical Education
Janice Elaine Pritchett	Elementary Education
Marion Ruth Proffitt	Elementary Education
Wayne Jerome Puckham	Psychology
Marguerite Elizabeth Quinn	Business Education

CANDIDATES FOR THE DEGREE OF BACHELOR OF SCIENCE
(Continued)

Name	Major Field
Douglas Randolph	Health and Physical Education
Beverly Ann Ross	Business Education
David Russell Sauls	Elementary Education
Paul Myron Selby	Biology
Mary Smith Short	Elementary Education
Bernadette Ann Sims	Elementary Education
Clayton Linwood Singleton	Health and Physical Education
Beverly Fagin Smith	French
Barbara A. Stinson	Music Education
Jean Marcella Sudler	Business Education
John Edwin Taylor	Elementary Education
John Howard Terry, Jr.	Health and Physical Education
Ronald Frisby Thomas	Elementary Education
Elissa Hepburn Walker	Business Education
Marcia Braxton Walker	Business Administration
Adrienne Lenore Walls	Business Education
Joan Bonita Waring	Business Administration
Clara Whitfield	Elementary Education
Clifford Wilson, Jr.	Health and Physical Education

SENIORS

Name	Major Field	City and State
Allen, Mayola	Elementary Education	Millsboro, Delaware
Allen, Sondra	English	Atlantic City, New Jersey
Ames, Tony	History	Lewes, Delaware
Anderson, Linda	Elementary Education	Wilmington, Delaware
Badger, Barbara	Sociology	New Haven, Connecticut
Bagwell, Clarence	Business Administration	Camden, New Jersey
Banks, Jacqueline	Elementary Education	Bridgeville, Delaware
Barber, John	Business Administration	Philadelphia, Pa.
Batten, Mable	Elementary Education	Woodstown, N. J.
Belford, Tyrone	History	Palmyra, New Jersey
Betner, Doris	Business Education	Philadelphia, Pa.
Blake, Albert	History	Bridgeville, Delaware
Blake, Gloria	Psychology	Atlantic City, New Jersey
Bowles, Grace	Music	New Windsor, New York
Boyd, Grover	Business Administration	Wilmington, Delaware
Brewton, Bernard	Business Administration	New Rochelle, N. Y.
Brittingham, Ernestine	Sociology	Lewes, Delaware
Brown, Clarence	Business Administration	Trenton, N. J.
Brown, Donald	Mathematics	Salem, New Jersey
Brown, Rhoda	Chemistry	Philadelphia, Pennsylvania

SENIORS (continued)

Name	Major Field	City and State
Brown, William R.	Psychology	Camden, New Jersey
Burbage, Ellene	Business Education	Bridgeville, Delaware
Butcher, William	Business Administration	Wilmington, Delaware
Calloway, Carole	Business Education	Wilmington, Delaware
Campbell, Julius	Sociology	Trenton, New Jersey
Carter, Anna	Elementary Education	Frankford, Delaware
Carter, Sandra	English	Wilmington, Delaware
Clark, Mary	Physical Education	Chester, Pennsylvania
Collins, Joseph	Biology	Milton, Delaware
Collins, Louvenia	Mathematics	Houston, Delaware
Conaway, Charles	Economics	Milton, Delaware
Conroy, Michael	Physical Education	Dover, Delaware
Craig, Carol	Elementary Education	Philadelphia, Pa.
Daniels, Roland	Physical Education	Dover, Delaware
Davis, Michael	Business Education	Wilmington, Delaware
Dewey, Fred	Elementary Education	Dover, Delaware
Dixon, Michael	H. & P. Education	Perrineville, N. J.
Dorsett, Nayada	Sociology	Port Jefferson Station, N. Y.
Dorsey, Brian	Business Administration	Philadelphia, Pa.
Eason, Shirley	Music	Camden, New Jersey
Edmunds, Robert	History	Dover, Delaware
Edomy, Alexander	History	Wilmington, Delaware
Elder, Duncan	Business Administration	Cambridge, Mass.
Ellison, Paul	Sociology	Dover, Delaware
Elzie, Mary	Elementary Education	Dover, Delaware
Engrum, Jarrett	Elementary Education	Houston, Texas
Ervin, Phyllis	Elementary Education	Brandywine, Maryland
Faison, Carolyn	History	Richmond, Virginia
Ferrell, Judy	Sociology	Queens Village, New York
Flowers, Jerry	English	Wilmington, Delaware
Fountain, Dolores	Secretarial Science	Milford, Delaware
Freeman, Delores	Elementary Education	Wyoming, Delaware
Gabbadon, Cassilda	Sociology	Philadelphia, Pennsylvania
Gaines, Delores	English	Dover, Delaware
Galloway, Beverly	Sociology	Pensacola, Florida
Gibson, William	Business Administration	Miami, Florida
Gilbert, John	Business Administration	Washington, D. C.
Gleadow, Charles	P. Ed. (Med. Allied Fields)	Dover, Delaware
Graham, Bernadette	Business Education	Wenonah, New Jersey
Grandison, Charles	Elementary Education	New Castle, Delaware
Gray, Gary	Elementary Education	Trenton, New Jersey
Green, Geneva	Elementary Education	Cleveland, Ohio
Grier, Clayton	Physical Education	Philadelphia, Pennsylvania
Hale, Kenneth	Sociology	New York, New York

SENIORS (continued)

Name	Major Field	City and State
Hall, Vivian	Elementary Education	Clarksville, Delaware
Harley, Earl	Chemistry	Providence, Rhode Island
Harmon, Diana	Mathematics	Wilmington, Delaware
Harris, Patricia	Elementary Education	Harrington, Delaware
Heath, Nancy	Home Economics	Greenwood, Delaware
Hebron, Preston	Elementary Education	Wilmington, Delaware
Hobbs, Geraldine	Business Education	Wenonah, New Jersey
Hobbs, Ina	Business Administration	Greenwood, Delaware
Hollingsworth, Berlin	Business Administration	Dover, Delaware
Holloman, Mary	Home Economics	Nassau, Delaware
Hunter, Alonzo	Biology	Trenton, New Jersey
Hunter, Samuel	Biology	Newark, New Jersey
Hursey, DeEdwin	History	Bridgeton, New Jersey
Ives, JoAnn	History	Jamesburg, New Jersey
Jackson, Carolyn	History	Bridgeton, New Jersey
Jacks, Isaac	Agriculture	Millsboro, Delaware
Jackson, James	Business Administration	New York, New York
Jackson, Linda	H. & P. Education	Philadelphia, Pa.
Jackson, Mary	Elementary Education	Wilmington, Delaware
Jackson, Robert	History	Bridgeville, Delaware
Jackson, Robert Stenton	Biology	Atlantic City, N. J.
Jacobs, Juanita	Elementary Education	Monroeville, New Jersey
Jefferson, Loretha	English	Philadelphia, Pennsylvania
Jefferson, Patricia	Business Education	Painter, Virginia
Jenkins, Phyllis	Elementary Education	Philadelphia, Pa.
Johnson, Carolyn	Sociology	Chester, Pennsylvania
Johnson, Christine	Home Economics	Seaford, Delaware
Johnson, Clarise	Chemistry	Philadelphia, Pennsylvania
Johnson, David	H. & P. Education	Newburgh, New York
Johnson, Roosevelt	Business Education	Dover, Delaware
Johnson, Sadie	Business Administration	Dover, Delaware
Johnson, Theodore	Business Administration	Trenton, New Jersey
Joyner, Lemuel	Mathematics	Wilmington, Delaware
Keen, Robert	Elementary Education	Smyrna, Delaware
Kersey, Janice	Sociology	Wilmington, Delaware
King, James Scott	History	Marion, South Carolina
Lane, M. Franklin	Business Administration	Newark, Delaware
Laster, Miles	History	Bridgeton, New Jersey
Laws, Theodore	History	Chester, Pennsylvania
Lawson, Patricia	English	Wilmington, Delaware
Lee, Donald	Business Administration	Brooklyn, New York
Lewis, Nancy	Elementary Education	Dover, Delaware
Lingo, Betty	Business Education	Bridgeton, New Jersey
Little, Ruth	Home Economics	Wilmington, Delaware

SENIORS (continued)

Name	Major Field	City and State
Lobo, James	Business Education	Harrington, Delaware
Loper, Paul	Elementary Education	Wilmington, Delaware
Marshall, Rachel	Business Education	Wilmington, Delaware
Mascoll, Stephen	History	Cambridge, Massachusetts
Maxwell, Claudia	Elementary Education	Sharon Hill, Pa.
Mays, Leola	Elementary Education	Wilmington, Delaware
McCullough, Sandra	Biology	Philadelphia, Pennsylvania
McGuire, Kathleen	Elementary Education	Salem, New Jersey
McKnight, Mary	H. & P. Education	Brockton, Massachusetts
Middlebrooks, Diane	Business Administration	Wilmington, Delaware
Miles, Maynard	English	Wilmington, Delaware
Miller, Sherman	Mathematics	Dover, Delaware
Mitchell, Janet	Elementary Education	Chester, Pennsylvania
Mondine, Francia	Art	Washington, D. C.
Moody, Constance	Elementary Education	Wilmington, Delaware
Moore, Norman	Business Administration	Richmond, Virginia
Myers, M. Jeannette	English	Dover, Delaware
Myers, Martha	Elementary Education	Dover, Delaware
Norwood, Loucious	Sociology	Chester, Pennsylvania
Nottingham, Thomas	History	Machipongo, Virginia
Overton, Anthony	Biology	Kankakee, Illinois
Parker, Brock	Mathematics	Dover, Delaware
Peters, Doris	Elementary Education	Wilmington, Delaware
Peters, Roberta	Sociology	Greenfield, Massachusetts
Pinckney, Robert	H. & P. Education	Inwood, L. I., New York
Pitts, William	Elementary Education	Richmond, Virginia
Plummer, Andrea	Sociology	Philadelphia, Pennsylvania
Poole, Wanza	Physical Education	Philadelphia, Pennsylvania
Pritchett, Janice	Elementary Education	New Castle, Delaware
Proffitt, Marion	Elementary Education	Smyrna, Delaware
Puckham, Wayne	Psychology	Wilmington, Delaware
Quinn, Marguerite	Business Education	Wilmington, Delaware
Randolph, Douglas	H. & P. Education	Media, Pennsylvania
Reynolds, Marjorie	Sociology	Wilmington, Delaware
Rice, Alta	Elementary Education	Harrington, Delaware
Ridley, Douglas	Sociology	Cheswold, Delaware
Riley, Joyce	Elementary Education	Smyrna, Delaware
Riley, Roger	Business Education	Philadelphia, Pennsylvania
Rissmiller, Patrick	Physics	Woodside, Delaware
Roberts, Deborah	Sociology	Seaford, Delaware
Roberts, Geraldine	Sociology	Wilmington, Delaware
Ross, Beverly	Business Education	Philadelphia, Pa.
Satterwhite, Elaine	Business Education	Marydel, Maryland
Sauls, David	Elementary Education	Milford, Delaware

SENIORS (continued)

Name	Major Field	City and State
Saunders, Joseph	History	Salem, New Jersey
Saunders, Marlene	Sociology	Wilmington, Delaware
Selby, Paul	Biology	Laurel, Delaware
Sevast, James	Music	Dover, Delaware
Seymore, Tyrone	Elementary Education	Seaford, Delaware
Sheridan, Barbara	English	New Castle, Delaware
Shirer, Shirley	Sociology	Philadelphia, Pennsylvania
Short, Mary	Elementary Education	Selbyville, Delaware
Sims, Bernadette	Elementary Education	Wilmington, Delaware
Singleton, Clayton	H. & P. Education	Cambridge, Massachusetts
Skipwith, Thomasonia	Home Economics	Philadelphia, Pennsylvania
Slaughter, Edward	Sociology	Wilmington, Delaware
Smaw, Darryl	Music	Philadelphia, Pennsylvania
Smith, Beverly	French	Washington, D. C.
Smith, Evelyn	Elementary Education	Millsboro, Delaware
Smith, Patricia	History	Florence, New Jersey
Stewart, Roland	History	Wilmington, Delaware
Stinson, Barbara	Music	Chester, Pennsylvania
Sudler, Jean	Business Education	Dover, Delaware
Tate, Joan	Elementary Education	Wilmington, Delaware
Taylor, Iris	Sociology	Atlantic City, New Jersey
Taylor, John E.	Elementary Education	Greenwood, Delaware
Taylor, Nina	Home Economics	Philadelphia, Pennsylvania
Terry, John	H. & P. Education	Winston-Salem, N. C.
Thomas, Marvin	Sociology	Wilmington, Delaware
Thomas, Ronald	Elementary Education	Smyrna, Delaware
Trott, Peggyann	Mathematics	Georgetown, Delaware
Tucker, Joyce	Elementary Education	Lewes, Delaware
Vincent, Jennifer	History	Wilmington, Delaware
Walker, Elissa	Business Education	Philadelphia, Pennsylvania
Walker, Marcia	Business Administration	Wilmington, Delaware
Walls, Adrienne	Business Education	Nashua, New Hampshire
Waring, Joan	Business Administration	New Castle, Delaware
Washington, Deloris	English	Philadelphia, Pennsylvania
Watson, Elizabeth	Business Education	Wyoming, Delaware
West, Sandra	Sociology	Baltimore, Maryland
White, Bessie	History	Philadelphia, Pennsylvania
White, Marion	Elementary Education	Philadelphia, Pa.
Whitfield, Clara	Elementary Education	Wilmington, Delaware
Wilson, Clifford	H. & P. Education	Chester, Pennsylvania
Woods, Rita	English	Atlantic City, New Jersey
Wright, Howard	History	Lewes, Delaware
Wright, Jeannette	Elementary Education	Bridgeton, New Jersey
Young, Ada	Sociology	Lincoln, Delaware

JUNIORS

Name	Major Field	City and State
Alexander, Cassandra	Physical Education	Philadelphia, Pennsylvania
Allen, Elva	History	Millsboro, Delaware
Anderson, Ernest	Physical Education	Wilmington, Delaware
Baker, Chennita	Elementary Education	Philadelphia, Pa.
Bellinger, Daniel	Psychology	Long Branch, New Jersey
Benson, Robert (Bob)	Economics	Newark, New Jersey
Benson, Mary	English	Dover, Delaware
Bethea, Lamont	Business Administration	Philadelphia, Pa.
Bilton, Byron	Business Ad. Acc.	Wyoming, Delaware
Blackshear, Ruth	Music	Wilmington, Delaware
Braxton, Jane	Elementary Education	Wilmington, Delaware
Brooks, Merle	Business Administration	Chestertown, Md.
Brown, Alan	Business Administration	Wilmington, Delaware
Brown, Stephanie	English	Wilmington, Delaware
Bull, David	Elementary Education	Dover, Delaware
Burris, Joyce	Psychology	Brooklyn, New York
Butler, Cheryl	Physical Education	Philadelphia, Pennsylvania
Bynum, Bernice	English	Bridgeville, Delaware
Bynum, Lina	Business Education	Ellendale, Delaware
Cauthern, Leslie	Business Administration	Lexington, Virginia
Chippie, John	Business Administration	Cheswold, Delaware
Clark, Kenneth	Elementary Education	Elizabeth, New Jersey
Cole, Carolyn	Business Education	Philadelphia, Pennsylvania
Cooper, James	Economics	Seaford, Delaware
Coursey, Charles	Agriculture	Newark, Delaware
Coverdale, Alphonso	Business Ad. Acc.	Philadelphia, Pa.
Davis, Donald	Agriculture	Ellendale, Delaware
Dawson, Robert	History	New York, New York
Dyson, Lynmore	Mathematics	Philadelphia, Pennsylvania
Endler, Bernice	Elementary Education	Wyoming, Delaware
Faison, John	Biology	Philadelphia, Pennsylvania
Francis, Jackqueline	Business Administration	Wilmington, Delaware
Gaines, Janetta	Business Administration	Franklinville, N. J.
Galante, Francis	Physical Education	Dover, Delaware
Gardner, Edward	Physical Education	Allendale, South Carolina
Grabill, Barbara	Elementary Education	Dover, Delaware
Green, Ernest	Music	New Castle, Delaware
Grose, Kenneth	History	Philadelphia, Pennsylvania
Guy, H. Marie	Elementary Education	Wilmington, Delaware
Hackett, Marvin	Business Administration	Wilmington, Delaware
Hall, Frederica	History	Harbeson, Delaware
Hammonds, Benjamin	Sociology	Bronx, New York
Hammonds, Doris	Sociology	New York, New York
Harley, Beatrice	Elementary Education	Providence, R. I.

JUNIORS (continued)

Name	Major Field	City and State
Harmon, Gregory	Elementary Education	Millsboro, Delaware
Holmes, Leon	Business Administration	Wilmington, Delaware
Holmes, Lionel	Biology	Willow Grove, Pennsylvania
Holt, D. Gregory	Business Administration	Willow Grove, Pa.
Homan, Carl	Economics	Bridgeville, Delaware
Horsey, Carol	Elementary Education	Wilmington, Delaware
Horton, Ronald	Business Ad. Acc.	Washington, D. C.
Howard, Emma	Elementary Education	Wilmington, Delaware
Hubbard, Lester	Biology	Camden, New Jersey
Huff, Mary	Business Education	Wilmington, Delaware
Hunt, Geraldine	Business Education	Laurel, Delaware
Hyland, Wanda	Business Education	Laurel, Delaware
Ingram, Sylvia	Elementary Education	Milford, Delaware
Jackson, Robert Sev.	Business Ad. Acc.	Wilmington, Delaware
James, H. Grady	History	East Orange, New Jersey
Johnson, Evangeline	Sociology	Baltimore, Maryland
Johnson, Isabel	Psychology	Philadelphia, Pennsylvania
Johnson, James	Mathematics	Wilmington, Delaware
Joseph, Mary Lou	Business Education	Smyrna, Delaware
Joyner, Juanita	Home Economics	East Orange, New Jersey
Keaton, Isaac	Business Ad. Acc.	Washington, D. C.
Kelly, Bobby	Mathematics	Frankford, Delaware
Kent, Lorraine	Business Education	Wilmington, Delaware
Lane, Gerald	Spanish	Wilmington, Delaware
Lane, Phillip	Psychology	Dover, Delaware
Langrell, Robert	Elementary Education	Lewes, Delaware
Laval, Tyrone	Elementary Education	Paterson, New Jersey
Le Compte, Paula	Elementary Education	Chester, Pennsylvania
Logan, Margaret	Business Education	Philadelphia, Pennsylvania
Marshall, Donald	Business Ad. Acc.	Wilmington, Delaware
Martin, Ben	Business Ad. Acc.	Wilmington, Delaware
Martin, Charles	Physical Education	Painter, Virginia
Maull, Louise	Business Education	Lewes, Delaware
McCants, Tommie	Business Administration	Wilmington, Delaware
McCrea, Claude	Business Ad. Acc.	Lincoln, Delaware
McCullough, Georgie	Elementary Education	Dover, Delaware
McLaughlin, Peter	Natural Resources	Dover, Delaware
Melda, Frani	Elementary Education	Smyrna, Delaware
Mendenhall, Gloria	Music	Orangeburg, South Carolina
Mikell, Stanley	Art Education	Camden, Delaware
Miller, Moltraze	History	Wilmington, Delaware
Mitchell, Christopher	Business Administration	Washington, D. C.
Mitchell, Jacquelyn	Physical Education	Coatesville, Pennsylvania
Mitchell, Joyce	Sociology	Philadelphia, Pennsylvania

JUNIORS (continued)

Name	Major Field	City and State
Mitchell, Judith	Elementary Education	Washington, Pa.
Moody, Purnell	Elementary Education	Wilmington, Delaware
Moore, Kenneth	Business Administration	Dover, Delaware
Moore, Stephanie	Elementary Education	Baltimore, Maryland
Morris, Richard	Physical Education	Houston, Delaware
Moseley, William	Sociology	Washington, D. C.
Mosley, Emma	Biology	Magnolia, Delaware
Oliver, Carolyn	Elementary Education	Georgetown, Delaware
Parham, Peter	History	Roxbury, Massachusetts
Parker, Carlton	Sociology	Bridgeville, Delaware
Paskins, Wayne	Elementary Education	Rehoboth, Delaware
Perry, Rosemary	Elementary Education	Wilmington, Delaware
Perry, Thomas	History	Bainbridge, Georgia
Pettyjohn, Albert	Business Ad. Acc.	Ellendale, Delaware
Pettyjohn, Sandra	Mathematics	Lincoln, Delaware
Phillips, Ramona	Sociology	New Castle, Delaware
Pinkney, Henry	Art Education	Upper Marlboro, Maryland
Pleasant, William	Art Education	Dover, Delaware
Pruden, Betty	Business Education	Wilmington, Delaware
Randolph, Patricia	Biology	Wilmington, Delaware
Rickards, Carolyn	Sociology	Greenwood, Delaware
Rogers, Hayward	History	Rehoboth, Delaware
Roy, Mildred	Elementary Education	Wilmington, Delaware
Rush, John	Business Admn.	Woodbury Heights, N. J.
Sampson, Juanita	Business Education	Philadelphia, Pennsylvania
Sayers, Ronald	Business Administration	Smyrna, Delaware
Schanberger, Robert	Business Administration	Smyrna, Delaware
Scott, Delores	English	Wilmington, Delaware
Scott, Mattie	Elementary Education	Dover, Delaware
Showell, Hazel	English	Milford, Delaware
Sims, Reginald	Sociology	Wilmington, Delaware
Singleton, Henry	Sociology	Cherry Hill, New Jersey
Smith, Janet	Elementary Education	Philadelphia, Pa.
Spellman, Miriam	Home Economics	Ellendale, Delaware
Staples, Patricia	Business Administration	Wilmington, Delaware
Starling, Jeanel	Elementary Education	Lincoln, Delaware
Sudler, Victorine	Biology	Dover, Delaware
Summers, Lloyd	Biology	Middletown, Delaware
Tate, Leroy	Business Administration	Wilmington, Delaware
Taylor, Barbara	Music	St. Georges, Delaware
Taylor, Jerome	History	Philadelphia, Pennsylvania
Thomas, Cheryl	Business Education	Atlantic City, N. J.
Thomas, Lauren	Elementary Education	Philadelphia, Pa.
Thomas, Lorenzo	Physical Education	Philadelphia, Pennsylvania

JUNIORS (continued)

Name	Major Field	City and State
Thomas, Martha	Business Education	Harrington, Delaware
Thompson, Ronald	Sociology	Wilmington, Delaware
Todd, Lulu	Art Education	Newark, Delaware
Tyre, Kendal	Business Ad. Acc.	Frankford, Delaware
Vickers, Mildred	Home Economics	Ellendale, Delaware
Villabona, John	Mathematics	Dover, Delaware
Voughs, Ronald	Business Administration	Cherry Hill, N. J.
Waples, Jean	Elementary Education	Ellendale, Delaware
Warren, Katherine	Sociology	Dover, Delaware
Whatley, Natalie P.	Sociology	Atlanta, Georgia
Wilder, Doretha	English	Dover, Delaware
Wilkerson, Romaine	Business Education	Dover, Delaware
Williams, Billy	Business Administration	New Castle, Delaware
Williams, Jacquelyn	Physical Education	Wilmington, Delaware
Williams, James E.	Elementary Education	Ellendale, Delaware
Wilson, Jennifer	Elementary Education	Newark, Delaware
Womack, Martin	Mathematics	Jamaica, New York
Wright, Jacqueline	English	Wilmington, Delaware

SOPHOMORES

Name	Major Field	City and State
Adderley, Betty	Elementary Education	New Castle, Delaware
Alston, William	History	Wilmington, Delaware
Anderson, John	Business Administration	Wilmington, Delaware
Apostolina, Rosemary	Elementary Education	Dover, Delaware
Atkins, Jacqueline	English	Dorchester, Mass.
Bailey, Deborah	Psychology	Wilmington, Delaware
Baker, Tyrone	Sociology	Philadelphia, Pennsylvania
Bargo, Betty Lou	Music	Dover, Delaware
Bennett, Armentha	Business Education	Laurel, Delaware
Bennett, William	Business Administration	Philadelphia, Pa.
Bennett, William J.	Elementary Education	Trevese, Pennsylvania
Blackshear, Charles	Sociology	Wilmington, Delaware
Bolden, Stephanie	Business Education	Wilmington, Delaware
Bowden, Wilbert	Biology	Seaford, Delaware
Branch, Isabella	Elementary Education	Middletown, Delaware
Brister, Gladys	Psychology	Wilmington, Delaware
Brown, David	Business Administration	Dorchester, Mass.
Brown, Doris K.	Art	Wyoming, Delaware
Brown, Earl	Chemistry	Wilmington, Delaware
Brown, Omega	Sociology	Wilmington, Delaware

SOPHOMORES (continued)

Name	Major Field	City and State
Brown, Robert M.	Business Administration	Hockessin, Delaware
Brown, William H.	Elementary Education	New Castle, Delaware
Burks, Gregory	Business Administration	Smyrna, Delaware
Burton, Sandra	Sociology	Lewes, Delaware
Byrd, Barbara	Elementary Education	Claymont, Delaware
Cain, Lankford	Psychology	Marydel, Delaware
Carey, Stewart	Physical Education	Charlottesville, Virginia
Carney, Bobby Jean	Sociology	Felton, Delaware
Castro, Jose	Business Administration	Smyrna, Delaware
Cephas, Charles	Business Administration	Wilmington, Delaware
Chapman, Thomas	Elementary Education	Wilmington, Delaware
Chippie, Michael	Business Administration	Cheswold, Delaware
Clark, Charles	Biology	Millsboro, Delaware
Clark, Ethlyn	Physical Education	Coatesville, Pennsylvania
Clark, Josephus	Elementary Education	Milford, Delaware
Collins, Maynor	Mathematics	Houston, Delaware
Collins, Nancy	Business Administration	Dorchester, Mass.
Cooper, Winnifred	Physical Education	Magnolia, Delaware
Corbin, Shirley	Business Administration	Wilmington, Delaware
Cornish, Ellsworth	Biology	Wilmington, Delaware
Cosby, Robert	Physical Education	Philadelphia, Pennsylvania
Crews, Tyrone	History	Wilmington, Delaware
Crisden, Sherman	History	Wilmington, Delaware
Crumpler, Oaklyn	Business Administration	Wilmington, Delaware
Deeney, John, Jr.	Business Administration	Milford, Delaware
Dickerson, Cynthia	Elementary Education	Wilmington, Delaware
Dillard, Patricia	Mathematics	New Castle, Delaware
Dorsey, Margaret	Elementary Education	Wilmington, Delaware
Doughty, Rose	Elementary Education	Wilmington, Delaware
Draper, Richard	Business Administration	Felton, Delaware
Drummond, Henrietta	Elementary Education	Parksley, Virginia
Duffy, James	Business Administration	Rehoboth, Delaware
Duker, Timothy	Elementary Education	Milford, Delaware
Dupree, Anthony	Business Administration	Newark, New Jersey
Dutton, Elbert	Biology	Wilmington, Delaware
Edwards, Marionette	Business Education	Wilmington, Delaware
English, Marjorie	Business Education	Wilmington, Delaware
Evans, Connie	Elementary Education	Smyrna, Delaware
Evans, George	History	Wilmington, Delaware
Evans, Stanley	Business Administration	Woodbury, N. J.
Fifer, John	German	Dover, Delaware
Foster, Sean	Business Administration	Wilmington, Delaware
Friesner, Joy	Elementary Education	Farmington, Delaware
Garee, John	Economics	Doyelstown, Pennsylvania

SOPHOMORES (continued)

Name	Major Field	City and State
Ghee, Carl	Spanish	Wenonah, New Jersey
Gillette, Margaret	Elementary Education	Dover, Delaware
Ginsburg, Harriet	Elementary Education	Dover, Delaware
Goerger, Richard	Agriculture	Felton, Delaware
Goerger, Robert	Agriculture	Felton, Delaware
Goldberg, Brian	History	Dover, Delaware
Goldsborough, William	Elementary Education	Dover, Delaware
Gould, Nathan	Elementary Education	Bridgeton, New Jersey
Govatos, Victoria	Sociology	Dover, Delaware
Green, Robert	Elementary Education	Smyrna, Delaware
Grey, Daine	Psychology	Plainfield, New Jersey
Hall, Joseph	Mathematics	Millsboro, Delaware
Hall, Marian	Business Administration	Frankford, Delaware
Haman, Donald	Elementary Education	Delaware City, Delaware
Hammond, Charles	Elementary Education	Milford, Delaware
Harley, Eugene	Physical Education	Sewell, New Jersey
Harmon, Wardell	Sociology	Wilmington, Delaware
Harris, Brenda	Elementary Education	Brooklyn, New York
Haskins, Linda	Elementary Education	Wilmington, Delaware
Hearn, Charles	Business Administration	Laurel, Delaware
Hedderich, Gerlinde	Sociology	Dover, Delaware
Hennessy, John	Psychology	Newark, Delaware
Hickman, Preston	History	Wilmington, Delaware
Hickman, Sandra	Sociology	Windsor, Connecticut
Hicks, Clarence	Business Administration	Dover, Delaware
Hopkins, Nathaniel	Mathematics	Millsboro, Delaware
Horne, George	Business Administration	Bridgeville, Delaware
Horsey, Betty	Psychology	Wilmington, Delaware
Hudson, George	History	Dover, Delaware
Hughes, Wendell	Biology	Greenwood, Delaware
Hunter, Gloria	Business Administration	Pompano Beach, Fla.
Hurt, Robert	Sociology	Wilmington, Delaware
Hyland, Janice	Business Education	Laurel, Delaware
Jackson, Valerie	Business Education	Wilmington, Delaware
James, Francine	Elementary Education	Newark, Delaware
Jenkins, Jule	Mathematics	Seaford, Delaware
Jervey, Diane	Business Education	Wilmington, Delaware
Johns, Joyce	Elementary Education	Wilmington, Delaware
Johnson, Edward	Sociology	Brooklyn, New York
Jones, Shirley	H. & P. Education	Willow Grove, Pa.
Larkin, Brenda	Secretarial Science	Wilmington, Delaware
Laws, Ronald	Mathematics	Wilmington, Delaware
Lee, Louis	Physical Education	Willow Grove, Pa.
Leecost, Patricia	Mathematics	Richmond, Virginia

SOPHOMORES (continued)

Name	Major Field	City and State
Lewis, Joyce	Physical Education	Pemberton, New Jersey
Little, Agnes	Home Economics	Dover, Delaware
Love, Charlene	Elementary Education	Atlantic City, N. J.
Maloney, Jo Ann	Elementary Education	Wilmington, Delaware
Matthews, Clifton	Business Administration	Wilmington, Delaware
Mays, Pauline	Business Education	Wilmington, Delaware
McKinnon, Dorothy	English	Wilmington, Delaware
Meredith, George	Business Ad. Acc.	Montclair, New Jersey
Miller, Gloria	Business Education	Wilmington, Delaware
Minus, Judith	Elementary Education	Coatesville, Pa.
Minus, Mary	Home Economics	Felton, Delaware
Mitchell, Beulah	Home Economics	Townsend, Delaware
Mitchell, Samuel	English	Perth Amboy, New Jersey
Moyer, Reimund	History	Perth Amboy, New Jersey
Murray, Willie	Elementary Education	Woodbury, N. J.
Ndambuki, Bernard	History	Machakes, Kenya
Newsome, Robert	Physical Education	Houston, Delaware
Newton, Joseph	History	Philadelphia, Pennsylvania
Norwood, Christina	Home Economics	New Castle, Delaware
Oates, Linda	Business Education	Wilmington, Delaware
Palmer, Paula	Business Education	Wilmington, Delaware
Parker, Esthelda	Sociology	Milton, Delaware
Parsa, Zohreh	Physics	Iran
Patterson, Alicia	Psychology	Brooklyn, New York
Payne, Robert	Sociology	Wilmington, Delaware
Pendleton, Sylvia	Business Education	Dover, Delaware
Pinkett, Gilbert	Business Administration	New Castle, Delaware
Pizzadili, Giovan John	Business Administration	Felton, Delaware
Potts, Larry	Sociology	Smyrna, Delaware
Prettyman, James	Business Ad. Acc.	Milton, Delaware
Quinn, James	History	Freeland, Pennsylvania
Randolph, Alfreda	Business Education	Wilmington, Delaware
Redding, Howard	Biology	Wilmington, Delaware
Reed, Iva	Elementary Education	Milford, Delaware
Roberts, Leander	History	Accomac, Virginia
Robinson, Barbara	Business Education	Smyrna, Delaware
Robinson, Cynthia	Elementary Education	Philadelphia, Pa.
Robinson, Harold	Art Education	Asbury Park, New Jersey
Ruben, Fred	Physical Education	Philadelphia, Pennsylvania
Rutter, Deborah	Elementary Education	Wilmington, Delaware
Saunders, Charles E.	Elementary Education	Wilmington, Delaware
Saunders, Norris	History	Wilmington, Delaware
Scott, Doris	Business Education	Felton, Delaware
Scurry, Andrea	Elementary Education	Bronx, New York

SOPHOMORES (continued)

Name	Major Field	City and State
Settle, Carolyn	French	Newark, Delaware
Shelton, William	Mathematics	Millsboro, Delaware
Shephard, Charles	Business Ad. Acc.	Dover, Delaware
Sheppard, Richard	Psychology	Wilmington, Delaware
Short, Jewett	Business Administration	Wilmington, Delaware
Showell, Gregory	History	Milford, Delaware
Smith, Gene	Elementary Education	Selbyville, Delaware
Smith, Helen	Business Education	Wilmington, Delaware
Smith, Ida	Business Education	Dover, Delaware
Smith, Irene	Business Education	Wilmington, Delaware
Sorden, Doris	Sociology	Wilmington, Delaware
Soreny, Victor	Physics	Smyrna, Delaware
Spencer, Cecelia	Elementary Education	Wilmington, Delaware
Spikes, Charles	Psychology	Elizabeth, New Jersey
Squirrel, Michael	Physical Education	Baltimore, Maryland
Stafford, Carol	English	Wilmington, Delaware
Staples, Paulette	Elementary Education	Fieldale, Virginia
Stevenson, Lorraine	Business Education	Middletown, Delaware
Stewart, Guy	Business Administration	Ardmore, Pa.
Tate, Charles	Chemistry	Wilmington, Delaware
Tate, Richard	Biology	Wilmington, Delaware
Taylor, Geraldine	Elementary Education	Dover, Delaware
Taylor, Gwendolyn	Sociology	Dover, Delaware
Taylor, Mervin	Business Administration	Millsboro, Delaware
Taylor, Shirley	Elementary Education	Millsboro, Delaware
Toliver, Edith	Sociology	Bridgeville, Delaware
Torrence, Tanya	Sociology	Wilmington, Delaware
Udoka, Johnson	Business Administration	Eastern Nigeria
Walker, Ellis	Physical Education	Coatesville, Pennsylvania
Wallace, Nelson	Art Education	Dover, Delaware
Waples, Ella	Elementary Education	Millsboro, Delaware
Ward, Anna	Elementary Education	Lewes, Delaware
Ward, Paul	Physical Education	Dover, Delaware
Waters, Floyd	Music Education	Wilmington, Delaware
Watson, Janice	Elementary Education	Smyrna, Delaware
Watson, Nathaniel	History	Newark, Delaware
Watson, Reginald	History	Wilmington, Delaware
Watson, Robert L.	Business Ad. Acc.	Wilmington, Delaware
Weaver, Patrick	Economics	Dover, Delaware
Webb, Joyce	Elementary Education	Dover, Delaware
West, Cheryl	Elementary Education	Georgetown, Delaware
White, Cleveland	History	Wilmington, Delaware
White, Elliot	Elementary Education	Piscataway, N. J.
Whye, William	Business Administration	Wilmington, Delaware

SOPHOMORES (continued)

Name	Major Field	City and State
Wich, John	Psychology	Dover, Delaware
Williams, Alphonso	History	Wilmington, Delaware
Williams, Gertrude	Physics	Wyoming, Delaware
Winchester, Dwight	Business Education	Wilmington, Delaware
Woodard, Emory, III	History	Wilmington, Delaware
Woolsey, John	Elementary Education	Dover, Delaware
Wright, Calvin	Business Administration	Philadelphia, Pa.
Wynder, William, Jr.	Mathematics	Dover, Delaware
Yancey, Bradford	Physical Education	Stoneham, Massachusetts
Yancey, Carl	Physical Education	Stoneham, Massachusetts

FRESHMEN

Name	Major Field	City and State
Adams, Joseph	Business Administration	Hurlock, Maryland
Allen, Mary	Elementary Education	Rehoboth, Delaware
Ames, Edward	Art Education	Paterson, New Jersey
Amos, Kent	Business Administration	Washington, D. C.
Arbogast, Harold	History	Smyrna, Delaware
Armstrong, John B.	Natural Resources	Delaware City, Delaware
Armstrong, John W.	Business Administration	Wilmington, Delaware
Bailey, Gloria	Elementary Education	Millsboro, Delaware
Bailey, James	Business Education	Frederica, Delaware
Barckley, Matilda	Elementary Education	Nanticoke, Maryland
Barkley, Marie	Music	Seaford, Delaware
Rates, William E.	Art Education	Wilmington, Delaware
Batson, Shirley	Business Education	Seaford, Delaware
Baynard, Stephanie	Elementary Education	Wyoming, Delaware
Beachum, Shirley	Business Administration	Wilmington, Delaware
Beasley, Leroy	Sociology	Cambridge, Maryland
Bedford, Nicholas	Elementary Education	Dover, Delaware
Bee, Sylvester	Art Education	Buffalo, New York
Benton, William	Biology	Dover, Delaware
Betts, Willard	Biology	Frederica, Delaware
Biles, Mary	Business Education	Rehoboth, Delaware
Bolden, James	History	Jersey City, New Jersey
Bouldin, Charles	Sociology	Brooklyn, New York
Bowers, Michael	Agriculture	Clayton, Delaware
Bradford, Donald	Business Administration	Philadelphia, Pa.
Bradley, David	Elementary Education	Trenton, New Jersey
Brown, Charles	Business Administration	Smyrna, Delaware
Brown, Janice	Elementary Education	Houston, Delaware
Bull, Linda	Biology	Dover, Delaware

FRESHMEN (continued)

Name	Major Field	City and State
Bumpus, Dorene	Biology	Seaford, Delaware
Burbage, Geraldine	Business Education	Bridgeville, Delaware
Burbage, Soleste	Elementary Education	Bridgeville, Delaware
Burris, George	Sociology	Wilmington, Delaware
Burris, Marva	Elementary Education	Brooklyn, New York
Burwell, Wesley	Business Administration	Brooklyn, New York
Bush, Michael	Biology	Woodside, Delaware
Butts, Theresa	Business Administration	Wilmington, Delaware
Byrd, Gwendolyn	Business Education	Claymont, Delaware
Cademartori, Kenneth	Business Administration	Dover, Delaware
Caldwell, James	Elementary Education	Denton, Maryland
Calloway, Marlene	Elementary Education	Westville, New Jersey
Campbell, Carolyn	Business Administration	Millsboro, Delaware
Carpenter, Ruth	Elementary Education	Port Penn, Delaware
Carter, Barbara	Business Education	Dover, Delaware
Carter, Brenda	Psychology	Wilmington, Delaware
Carter, Gloria	Elementary Education	Philadelphia, Pa.
Carter, James	Business Administration	Wilmington, Delaware
Carter, Jane	Elementary Education	Dover, Delaware
Carter, Toni	Psychology	McLean, Virginia
Cave, Claude	Biology	Brooklyn, New York
Cephas, Rebecca	Elementary Education	Wilmington, Delaware
Chancy, Thomas	Elementary Education	Wilmington, Delaware
Chapman, Ruth	Elementary Education	Wilmington, Delaware
Childs, Clifford	Business Ad. Acc.	Trenton, New Jersey
Chippie, Doris	Elementary Education	Cheswold, Delaware
Clemons, Isaac	Mathematics	Wilmington, Delaware
Cline, Karen	Mathematics	Frederica, Delaware
Colbert, Maxine	Physical Education	Philadelphia, Pa.
Cole, William	Economics	Royal Oak, Maryland
Coleman, Cleo	English	Greenwood, Delaware
Coleman, Geraldine	Elementary Education	Seaford, Delaware
Coleman, Joyce	Business Education	Seaford, Delaware
Collins, Marvin	Business Administration	Philadelphia, Pa.
Cook, Gladys	Business Administration	Seaford, Delaware
Cooper, Beverly	Elementary Education	Dover, Delaware
Corso, Janet	Business Education	Clayton, Delaware
Crawford, Jo Anne	French	Wilmington, Delaware
Dance, Joan	Sociology	Plainfield, New Jersey
Dance, Sharolyn	Elementary Education	Plainfield, New Jersey
Danner, Charles	Music	Dover, Delaware
Day, Desi	Business Administration	Asbury Park, N. J.
Debrick, Eleanor	Physical Education	Wilmington, Delaware
Dickerson, Adolphus	Business Administration	Baton Rouge, La.

FRESHMEN (continued)

Name	Major Field	City and State
Dillard, Robert	History	Wilmington, Delaware
Di Salvo, Joseph	Elementary Education	Wyoming, Delaware
Dixon, Deborah	Elementary Education	Dover, Delaware
Dixon, Samuel	English	Wyoming, Delaware
Dorman, Leland	Economics	Seaford, Delaware
Doughty, Susie	French	Frankford, Delaware
Downes, Jane	French	Dover, Delaware
Driver, John W.	Business Administration	Marlboro, New Jersey
Duffy, Jeron	History	Rehoboth, Delaware
Duffy, Jonathan	Elementary Education	Rehoboth, Delaware
Dunning, Charmaine	Med. Alld. Fields	Lewes, Delaware
Easton, Elsie	Physical Education	Dover, Delaware
Ellegood, Sandra	Business Administration	Wilmington, Delaware
Elzey, Myra	Business Education	Laurel, Delaware
Emeigh, Gary	Art Education	Smyrna, Delaware
Evans, Curtis	Business Administration	Bridgeville, Delaware
Fair, James	Business Administration	Somerset, New Jersey
Farrow, Norma	Business Education	Felton, Delaware
Fearon, John	Business Administration	Smyrna, Delaware
Fellows, Marjorie	Sociology	Easton, Pennsylvania
Fields, Cheryl	Psychology	Wilmington, Delaware
Fisher, Mary	Sociology	Dover, Delaware
Fogg, Charity	Elementary Education	Seaford, Delaware
Frankfather, Brian	Business Administration	Smyrna, Delaware
Frazier, Talmadge	Business Administration	Plainfield, N. J.
Freeman, Joseph	Business Admn. Gen.	Philadelphia, Pa.
Frierson, Harvey	Sociology	New York, New York
Fuller, George	Mathematics	Wilmington, Delaware
Futrell, Melvin	Elementary Education	Newport News, Va
Gibson, Walter	Business Administration	Dover, Delaware
Glass, Herman	Business Ad. Acc.	Chester, Pennsylvania
Gmuer, June	Elementary Education	Dover, Delaware
Graham, Patricia	Sociology	Neptune, New Jersey
Graham, Renecia	Biology	Wilmington, Delaware
Greene, Brenda	Sociology	Millsboro, Delaware
Greenidge, David	H. & P. Education	Cambridge, Massachusetts
Griffin, Arlene	Biology	Dover, Delaware
Griffin, Darryl	Business Ad. Acc.	Dover, Delaware
Guy, Mary	Art Education	Cheswold, Delaware
Hackley, Maxine	Elementary Education	Camden, Delaware
Haddick, Harold	Mathematics	Dover, Delaware
Haines, James	H. & P. Education	Philadelphia, Pa.
Hanzer, Patricia	Sociology	Lewes, Delaware
Harding, Marita	Business Education	Delaware City, Delaware

FRESHMEN (continued)

Name	Major Field	City and State
Harmon, Harold	Business Administration	Dover, Delaware
Harmon, Sherry	Mathematics	Frankford, Delaware
Harris, David	Business Education	New Castle, Delaware
Haugh, Robert	English	Delaware City, Delaware
Hawthorne, Robert	Mathematics	Baltimore, Maryland
Hazzard, Jacqueline	Elementary Education	Wilmington, Delaware
Hearn, Alice	Elementary Education	Harrington, Delaware
Henderson, Anthony	Business Administration	Wilmington, Delaware
Henry, Elva	English	Townsend, Delaware
Hill, Franklin	Business Ad. Acc.	Wilmington, Delaware
Hines, Gary	Business Administration	Wilmington, Delaware
Hoffner, David	Business Administration	Felton, Delaware
Holloway, Mercedes	Elementary Education	Wilmington, Delaware
Hood, Arthur	Chemistry	Philadelphia, Pennsylvania
Horn, Deborah	Elementary Education	Philadelphia, Pa.
Howell, Cheryl	History	Philadelphia, Pennsylvania
Hunter, Delores	Physical Education	Coatesville, Pennsylvania
Hynson, Theodore	Business Administration	Wilmington, Delaware
Isele, Karl	Chemistry	Dover, Delaware
Jackson, Mae	Elementary Education	Wilmington, Delaware
Jackson, Paulette	Elementary Education	Millsboro, Delaware
Jackson, Sandra	Sociology	Wilmington, Delaware
Jacobs, Paulette	Business Ad. Acc.	Wilmington, Delaware
Johnson, Alan	Business Administration	Wilmington, Delaware
Johnson, Althea	Business Education	Wilmington, Delaware
Johnson, Clifton	History	Richmond, Virginia
Johnson, Forrest	Mathematics	Dover, Delaware
Johnson, Maria	H. & P. Education	Smyrna, Delaware
Johnson, Rose	Business Education	Delaware City, Delaware
Jones, Andrea	Business Education	Wilmington, Delaware
Kelley, Shirley	Mathematics	Frankford, Delaware
Kelly, Christopher	Mathematics	Dover, Delaware
Kesler, Tegid	Business Ad. Acc.	Wilmington, Delaware
King, Leon	Business Administration	Wilmington, Delaware
Lakey, Stanley	Psychology	Delaware City, Delaware
Lane, Sheridan	Business Administration	Wilmington, Delaware
Lawson, Joyce	Elementary Education	Wilmington, Delaware
Lewis, George	Physical Education	Baltimore, Maryland
Lewis, Richard	Art Education	Wilmington, Delaware
Livingston, Tyrone	Elementary Education	Wilmington, Delaware
Lloyd, Ronald	Elementary Education	Ardmore, Pennsylvania
Logan, Faquita	Business Education	Wilmington, Delaware
Loomis, Margaret	Elementary Education	Dover, Delaware
Maciarello, John	Elementary Education	Camden, Delaware

FRESHMEN (continued)

Name	Major Field	City and State
Maciarello, Mary	Elementary Education	Camden, Delaware
Maddox, Carl	Sociology	Wilmington, Delaware
Madric, Arthur	History	Wilmington, Delaware
Madric, Carolyn	Elementary Education	Wilmington, Delaware
Marsh, Andrew	History	Dover, Delaware
Matthews, Patricia	Psychology	Philadelphia, Pennsylvania
Mays, Charles	Business Administration	Wilmington, Delaware
McNeill, Patricia	Elementary Education	Wilmington, Delaware
Meares, Carolyn	Sociology	Forest Hill, Maryland
Melton, Toni	Business Education	Wilmington, Delaware
Merritt, Robert	Business Administration	Wilmington, Delaware
Milan, Herbert	Elementary Education	Atlantic City, N. J.
Miles, William	Psychology	Dover, Delaware
Miller, George	Mathematics	New York, New York
Miller, Lillian	Business Ad. Acc.	Lewes, Delaware
Milligan, Edward	Business Administration	Trenton, New Jersey
Mills, Gary	Business Administration	New Brunswick, N. J.
Mishoe, Lois	Home Economics	New York, New York
Monson, Thomas	History	Philadelphia, Pennsylvania
Moore, Joel	Psychology	New Castle, Delaware
Moore, Sharon	Elementary Education	Wilmington, Delaware
Moore, Willie	Physical Education	Baltimore, Maryland
Morris, Donald	Business Administration	Felton, Delaware
Morris, Yvonne	Elementary Education	Wilmington, Delaware
Moulder, Winston	Elementary Education	Atlanta, Georgia
Munson, Roy	Physical Education	Baltimore, Maryland
Nance, Sadie	Business Education	Smyrna, Delaware
Nicholson, Sandra	Sociology	Smyrna, Delaware
Nunn, Norma	History	Harrington, Delaware
Osburn, Emmett	Business Administration	Wilmington, Delaware
Palmer, Constance	Home Economics	Seaford, Delaware
Palmer, Donald	Chemistry	New Castle, Delaware
Payne, Ronald	Business Administration	Felton, Delaware
Pendleton, Cheryl	Elementary Education	Dover, Delaware
Penn, Marian	Sociology	Dover, Delaware
Pennick, James	Elementary Education	Philadelphia, Pa.
Perry, Robert	Agriculture	Middletown, Delaware
Petrucci, Evelyn	Elementary Education	Dover, Delaware
Petty, Eugene	Art Education	New Castle, Delaware
Pettyjohn, Dorothy	Biology	Ellendale, Delaware
Phillips, Eleanor	English	Dover, Delaware
Pierce, Frederick	Psychology	Irvington, New Jersey
Pierson, Phillip	Business Ad. Acc.	Wilmington, Delaware
Pinder, Janet	Sociology	Bridgeville, Delaware

FRESHMEN (continued)

Name	Major Field	City and State
Pinkett, Patricia	Sociology	Wilmington, Delaware
Portlock, Linda	Business Education	Delaware City, Delaware
Powell, Joy	English	Magnolia, Delaware
Powell, Linda	Psychology	Wilmington, Delaware
Pulley, Walburton	Art Education	Baltimore, Maryland
Richards, John	Agriculture	Smyrna, Delaware
Riley, Willie, Jr.	Biology	Newark, New Jersey
Roach, Evelyn	Elementary Education	Dover, Delaware
Roberts, Joseph	Business Administration	Wilmington, Delaware
Roberts, William	Business Administration	Dover, Delaware
Rogers, Dennis	Sociology	Harrington, Delaware
Rolsal, Marlene	Business Education	Felton, Delaware
Ross, Tony	Elementary Education	Milford, Delaware
Roy, Marie	Psychology	Wilmington, Delaware
Rush, Geraldine	Spanish	Woodbury Heights, New Jersey
Rutter, Jean	Business Education	Wilmington, Delaware
Salters, Edward	Business Administration	Lewes, Delaware
Satterthwaite, Roslyn	Elementary Education	Philadelphia, Pa.
Scott, Cecil	Business Administration	Lincoln, Delaware
Showells, Delema	French	Lewes, Delaware
Sipple, Charlene	Elementary Education	Felton, Delaware
Sivels, Annie	Elementary Education	Ellendale, Delaware
Skinner, Robert, Jr.	Business Administration	Townsend, Delaware
Slade, Fred	Biology	Frankford, Delaware
Slay, Samuel, Jr.	Business Ad. Acc.	Philadelphia, Pennsylvania
Smith, Leonard	Business Administration	Philadelphia, Pa.
Smith, Nancy	Business Education	Delaware City, Delaware
Smith, Valerie	Psychology	Newark, New Jersey
Sokoloff, Alan	Art Education	Smyrna, Delaware
Speight, Dorothy	Business Education	Bridgeville, Delaware
Spencer, Cecelia	Elementary Education	Wilmington, Delaware
Stearns, Dorothy	Psychology	Dover, Delaware
Stephens, Benjamin	Sociology	Washington, D. C.
Sterling, Michael	Elementary Education	Smyrna, Delaware
Stewart, Rosetta	Sociology	Atlantic City, New Jersey
Stewart, William	Mathematics	Jersey City, New Jersey
Sullivan, Larry	Agriculture	Dover, Delaware
Swiggett, Thomas	Business Administration	Smyrna, Delaware
Teague, Joyce	Home Economics	Hingham, Massachusetts
Thomas, Carolyn	Secretarial Science	Wilmington, Delaware
Tice, Audrey	History	Wilmington, Delaware
Tokley, James	English	Bridgeville, Delaware
Tolver, Betty	Psychology	Cinnaminson, New Jersey
Trader, Wayne	Biology	Wilmington, Delaware

FRESHMEN (continued)

Name	Major Field	City and State
Triplett, Vester	Sociology	Wilmington, Delaware
Tue, Audrey	Business Education	Dover, Delaware
Tull, Lex	Business Administration	Smyrna, Delaware
Tyre, Leamond	Mathematics	Frankford, Delaware
Urian, John	H. & P. Education	Smyrna, Delaware
Urian, Kathryn	Physical Education	Smyrna, Delaware
Vines, Bennie	Physical Education	Washington, D. C.
Wade, Oveta	Mathematics	Dover, Delaware
Walker, Willie	Business Administration	Brooklyn, New York
Walls, John	Physical Education	Bronx, New York
Waples, Charles	Chemistry	Millsboro, Delaware
Ward, Reginald	Business Administration	Wilmington, Delaware
Washington, Ira	Sociology	Wilmington, Delaware
Watson, Charles	Elementary Education	Wilmington, Delaware
Welch, Gary	History	East Orange, New Jersey
Wharton, Eric	Physical Education	Philadelphia, Pennsylvania
Whetstone, Jesse	Business Administration	Newark, New Jersey
Whitaker, Juan	Business Education	Philadelphia, Pa.
White, John	Elementary Education	Dover, Delaware
White, Lorene	Business Education	Dover, Delaware
Whitsett, Shirley	Elementary Education	Smyrna, Delaware
Wiggins, Shirley	Elementary Education	Smyrna, Delaware
Wilkins, Bernie	Business Administration	Wilmington, Delaware
Williams, Dwight	History	Washington, D. C.
Williams, James V.	Business Administration	Wilmington, Delaware
Williams, John R.	English	Dover, Delaware
Williams, Joseph	Business Administration	Wilmington, Delaware
Williams, Nathaniel	Business Administration	Lewes, Delaware
Williams, Paul	Elementary Education	Dover, Delaware
Williams, Willie	English	Seaford, Delaware
Wilson, Janet	Business Education	Smyrna, Delaware
Wilson, Joan	Business Administration	Wilmington, Delaware
Wilson, Linda	Elementary Education	Smyrna, Delaware
Winfield, Beverly	Business Education	Wilmington, Delaware
Wintjen, Lawrence	Art Education	Milford, Delaware
Wisher, Aaron	Agriculture	Townsend, Delaware
Wood, William	Business Administration	Harrington, Delaware
Woodall, Julian	Physical Education Rec.	Clayton, Delaware
Wright, Arthur	Physical Education	Newark, Delaware
Wright, Janice	Elementary Education	Wilmington, Delaware
Wyatt, Leslie	Psychology	Dover, Delaware
Young, Gonzelous	Mathematics	Lincoln, Delaware

SPECIAL STUDENTS

Name	Major Field	City and State
Bevans, James		Dover, Delaware
Bowman, Alverta	Business Administration	Wilmington, Delaware
Dewberry, Kenneth	Business Administration	Dover, Delaware
Ebert, James	History	Dover, Delaware
Ezzell, Michael		Rocky Mount, North Carolina
Fornaro, Cosmo		Dover, Delaware
Govatos, Albert	Physical Education	Dover, Delaware
Hammond, Clayton		Dover, Delaware
Howard, Alice		Dover, Delaware
Landry, G. Verlene		Dover, Delaware
Lederer, Theodora		Dover, Delaware
Luther, Thomas		Dover, Delaware
May, Victor	Business Administration	Dover, Delaware
Mills, Willie	Physical Education	Dover, Delaware
Mullett, Ernest	English	Greenwood, Delaware
Pace, Benedict	Mathematics	Dover AFB, Delaware
Robbins, John	Business Administration	Smyrna, Delaware
Stevens, Nathaniel		Hartly, Delaware
Stone, Reppard		Baltimore, Maryland
Valcarce, Ondina		Dover, Delaware
Vitale, Ralph	Art	Wyoming, Delaware
Williams, Patricia	Elementary Education	Dover, Delaware

EVENING STUDENTS

Name	City and State
Allen, Ora	Dover, Delaware
Apostolina, Alexander	Dover, Delaware
Armstrong, Charles	Delaware City, Delaware
Ashley, Wayne W.	Dover, Delaware
Banks, Patricia E.	Bowers, Delaware
Barclay, Daniel R.	Dover, Delaware
Bender, Virginia R.	Greenwood, Delaware
Benton, William D.	Dover, Delaware
Berry, Joyce A.	Millsboro, Delaware
Biddle, William R.	Dover, Delaware
Bonniwell, Robert A.	Felton, Delaware
Bourassa, Barbara	Dover, Delaware
Brown, James C.	Dover, Delaware
Brown, Patricia	Wyoming, Delaware
Brown, Robert L.	Wyoming, Delaware
Bryan, Jean E.	Dover, Delaware

EVENING STUDENTS (continued)

Name	City and State
Bures, Vera M.	Woodside, Delaware
Bush, Elizabeth D.	Woodside, Delaware
Cannon, Isaac	Bridgeville, Delaware
Cannon, Winfield E.	Dover, Delaware
Coppadge, Ruby L.	Dover, Delaware
Daniels, Audrey	Dover, Delaware
Davis, Richard E.	Dover, Delaware
Del Vecchio, Frank A.	Wyoming, Delaware
DiSalvo, Joseph M.	Wyoming, Delaware
Dones, James	Dover, Delaware
Durdin, Vivian	Dover, Delaware
Durgan, Robert W.	Dover, Delaware
Edison, Sarah B.	Dover, Delaware
Ellison, Linda	Dover, Delaware
Engrem, Charles	Smyrna, Delaware
Erne, Marie	Felton, Delaware
Euseary, Jonathan	Dover AFB, Delaware
Evans, Mary	Smyrna, Delaware
Fields, Isabel K.	Sudlersville, Maryland
Foard, Lloyd R.	Blades, Delaware
Fortugno, Frances C. (Sister)	Rehoboth, Delaware
Franklin, Barbara	Dover, Delaware
Friedman, Rhoda	Milford, Delaware
Frisby, Gilbert F.	Smyrna, Delaware
Gage, George F.	Smyrna, Delaware
Gamberg, David	Dover, Delaware
Gardner, Nancy	Dover, Delaware
Garrison, Gamaliel E.	Dover, Delaware
Gerald, Willie, Jr.	Dover, Delaware
Gibson, JoAnne B.	Dover, Delaware
Grigsby, Ethel A.	Dover, Delaware
Hagey, Sallie M.	Dover, Delaware
Hahs, James A.	Magnolia, Delaware
Hansen, Randall L.	Clayton, Delaware
Harris, Thomas C., Jr.	New Castle, Delaware
Henry, David W.	Dover, Delaware
Hill, Minnie H.	Dover, Delaware
Jarrell, Eldred K.	Dover, Delaware
Jones, Charles M.	Milford, Delaware
Knab, Earl A., Jr.	Dover AFB, Delaware
Lane, Mary L.	Dover, Delaware
Lane, Shirley H.	Dover, Delaware
Lavender, Dewey R.	Townsend, Delaware
Layton, Elaine J.	Dover, Delaware

EVENING STUDENTS (continued)

Name	City and State
Longoria, Maria	Dover, Delaware
Maager, Dietrich F.	Dover, Delaware
Matthews, Frances	Dover, Delaware
McGinnis, Mary C.	Smyrna, Delaware
McNomee, Richard B.	Ridgely, Maryland
Miller, Gwynelle W.	Dover, Delaware
Mitchell, Ellen A.	Dover, Delaware
Moller, Charles L.	Frederica, Delaware
Monroe, Stephen W.	Dover, Delaware
Neild, Carol M.	Camden, Delaware
Nicholson, Theresa L.	Smyrna, Delaware
Olson, David	Dover, Delaware
Peterson, Gerald M.	Ventnor, New Jersey
Phelps, Seaton	Felton, Delaware
Portlock, Mary	Middletown, Delaware
Pritchard, David	Dover, Delaware
Quinn, Bertrand, Jr.	Dover, Delaware
Richards, Beatrix	Sudlersville, Maryland
Roberts, James	Easton, Maryland
Robino, M. Aloysius (Sister)	Rehoboth, Delaware
Rowe, Jean L.	Camden, Delaware
Satchell, Frankye	Seaford, Delaware
Scheibelhoffer, Kathy L.	Dover, Delaware
Scott, Claude A.	Dover, Delaware
Settles, Alberta L.	Smyrna, Delaware
Sheppard, Janice	Clayton, Delaware
Siegel, Alexander R.	Dover, Delaware
Skinner, Charles L.	Dover, Delaware
Skinner, Marian	Dover, Delaware
Smith, Bradford	Dover, Delaware
Smith, Maria B.	Dover, Delaware
Smith, Rosa	Milford, Delaware
Smith, Sidney R.	Smyrna, Delaware
Sokoloff, Mary	Smyrna, Delaware
Sousa, Ambrose (Sister)	Rehoboth, Delaware
Tarabicos, Nick J.	Dover, Delaware
Tarlen, Daniel	Brooklyn, New York
Taylor, Harold D.	St. Georges, Delaware
Torgerson, Ronald J.	Dover, Delaware
Van Pelt, Roberta	Dover AFB, Delaware
Vanderplasse, Gerald	Smyrna, Delaware
Warrington, Floyd	Dover, Delaware
Webb, Francis A.	Houston, Delaware
White, Cassie	Dover, Delaware

EVENING STUDENTS (continued)

Name	City and State
White, John L.	Dover, Delaware
Williams, Diane F.	Smyrna, Delaware
Williams, Ida V.	Dover, Delaware
Wilson, Susye K.	Delmar, Delaware
Wright, Sheridan	Wilmington, Delaware
Wynder, Minnie	Dover, Delaware
Young, Thorris R.	Lincoln, Delaware
Zaback, Charlotte P.	Dover, Delaware

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