

DELAWARE STATE COLLEGE

DOVER, DELAWARE



Catalogue 1963-1964

With Announcement for the
Seventy-Third Session 1964-1965

DELAWARE STATE COLLEGE

CATALOGUE

A Record of 1963-1964

Announcements for the Year Beginning
September 8, 1964 and Ending May 31, 1965

1964

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, Counseling, and Testing

Placement of Students and Graduates: The Directors 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

TELEPHONE NUMBER: 734-8271

EXTENSION 21—Office of the President
EXTENSION 23—Office of the Dean of the College
EXTENSION 24—Office of the Registrar
EXTENSION 25—Office of the Business Manager
EXTENSION 41—Office of the Director of Admissions, Counseling, and Testing
EXTENSION 62—Library
EXTENSION 63—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 77—Office of the Director of Alumni and Public Relations

NIGHT TELEPHONE NUMBERS

734-5606—Infirmary
734-5283—Tubman Hall
734-5116—Laws Hall
734-5141—Conwell Hall

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ACADEMIC CALENDAR

1964-1965

September 8 (Tuesday)	Faculty Institute
September 9-11 (Wed., Thurs., Fri.)	Freshman Orientation
September 14, 15 (Monday, Tuesday)	Registration
September 16 (Wednesday)	Class Instruction Begins Late Registration Begins
September 18 (Friday)	Last Day of Late Registration and Program Changes
October 3 (Saturday)	Homecoming
October 25 (Sunday)	Parents' Day
November 9-11 (Mon., Tues., Wed.)	Mid-Semester Examinations
November 25-29	Thanksgiving Recess
November 30 (Monday)	Classes Begin at 8 A.M.
December 19-January 3	Christmas Recess
January 4 (Monday)	Classes Begin at 8 A.M.
January 21, 22, 25, 26, 27 (Thurs., Fri., Mon., Tues., Wed.)	First Semester Examinations
January 28-29 (Thursday, Friday)	Freshman Orientation
February 4, 5 (Thursday, Friday)	Registration
February 8 (Monday)	Class Instruction Begins Late Registration Begins
February 12 (Friday)	Last Day of Late Registration and Program Changes
February 14 (Sunday)	Founders' Day
March 6 (Saturday)	Career Conference
March 7-12 (Sunday through Friday)	Religious Emphasis Week
March 24-26 (Wed., Thurs., Fri.)	Mid-Semester Examinations
April 3 (Saturday)	High School Day
April 16-19	Spring Recess
April 20 (Tuesday)	Classes Begin at 8 A.M.
May 1 (Saturday)	Sophomore-Senior Examinations
May 17-21 (Monday through Friday)	Senior Examinations
May 24-28 (Monday through Friday)	Semester Examinations
May 29 (Saturday)	Alumni Day
May 30 (Sunday)	Baccalaureate
May 31 (Monday)	Commencement

HISTORY

Delaware State College, situated on the DuPont Highway, U.S. 13, less than one mile north of Dover, the State Capitol, 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 Christian ethics and 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, 1965
MRS. THELMA YOUNG, Vice President	Wilmington,	June, 1966
HAROLD H. KELLER, Secretary	Laurel,	June, 1969
BERNARD YOUNG	Milford,	June, 1969
WILLIAM G. DIX	Bridgeville,	June, 1968
MRS. EDMUND N. CARPENTER, II	Wilmington,	June, 1968
EDWARD W. HAGEMEYER	Wilmington,	June, 1964
HAROLD SCHMITTINGER	Dover,	June, 1967
JAMES W. W. BAKER	Georgetown,	June, 1967
HOWARD STEVENSON	Dover,	June, 1964
JAMES H. WILLIAMS	Dover,	June, 1965

EX OFFICIO

The Governor of the State of Delaware, ELBERT N. CARVEL, Dover
The President of the College, LUNA I. MISHOE, Dover

OFFICERS OF ADMINISTRATION

LUNA I. MISHOE, PH.D.
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

FRED C. KING, M.Ed.
Director of Admissions, Counseling, and Testing
 B.S., Cheyney State Teachers College; M.Ed., University of Pittsburgh

WILLIAM A. DANIEL, PH.D.
Registrar
 A.B., Virginia Union University; A.M., Ph.D., University of Chicago

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

ROBERT G. OLIVER, JR., B.S.
Business Manager
 B.S., South Carolina State College

YUSHU PU, PH.D.
Head Librarian
 B.A., West China Union University; B.A., National Szechwan University;
 M.A., M.S.L.S., Ph.D., University of Michigan

ADMINISTRATIVE ASSISTANTS

OFFICE OF THE PRESIDENT

PEGGY L. WHITE, B.S., *Secretary and Assistant to the President*
 GRETA C. LEVANT, B.S., *Secretary*

OFFICE OF THE DEAN OF THE COLLEGE

*CAROLYN W. ARNELL, *Secretary to the Dean*
 *JOANNE BLOCKSOM, B.S., *Secretary to the Dean*
 ETHEL A. GRIGSBY, *Secretary to the Faculty*
 MARY R. PORTLOCK, B.S., *Secretary to the Faculty*

OFFICE OF ADMISSIONS, COUNSELING, AND TESTING

**ESTHER B. GIVENS, B.S., *Secretary*

OFFICE OF THE BUSINESS MANAGER

*CHARLIE ARNELL, B.S., *Assistant Business Manager*
 ROGER H. WILSON, B.S., *Assistant Business Manager*
 MINNIE H. HILL, B.S., *Bookkeeper*
 *MARY L. LANE, B.S., *Bookkeeper*
 *ALEXANDER L. HORNER, *Assistant Bookkeeper*
 ERNESTINE HARVEY, *Secretary*
 LINDA ELLISON, *Clerk*
 LOLITA HOWELL, *Switchboard Operator*

OFFICE OF THE REGISTRAR

JEAN A. WILSON, B.S., *Secretary to the Registrar*
 **ESTHER B. GIVENS, B.S., *Secretary*

OFFICE OF STUDENT PERSONNEL

**KATE PHARR, B.S., *Secretary*

LIBRARY

JESTINA T. HENDERSON, M.S.L.S., *Associate Librarian*
 MERCEDES B. BROWN, M.S.L.S., *Assistant Librarian*
 MAZIE H. CALDWELL, B.S., *Assistant Librarian*
 EVELYN BEALE, A.B., *Library Assistant*
 LILLIAN PORTER, *Library Assistant*
 HELEN WALKER, *Library Assistant*
 CHRISTINE McNULTY, *Secretary*

COLLEGE HEALTH SERVICE

EDWARD S. DENNIS, M.D.
 MARY B. ROSCOE, R.N.
 LETTIE YADACUS, R.N.

MAINTENANCE AND PLANT OPERATIONS

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

DINING HALL

HARRIETTE J. JONES, *Director of Food Services*

RESIDENCE HALLS

LAURIE F. JOHNSON, M.A., *Dean of Women*
 CORA E. WARREN, B.S., *Assistant Dean of Women and Director of Tubman Hall*
 NORWOOD DAVIS, B.S., *Director of Conwell Hall*
 JIMMIE C. NICKENS, B.S., *Director of Laws Hall*
 EVA V. HOLDEN, *Assistant to Director of Conwell Hall*
 MARIA B. SMITH, *Assistant to Directors of Women's Residence Halls*

*Part of the year

**Part-time

DEPARTMENTAL ASSISTANTS

MADLINE BOLDEN, B.M.
*Assistant in the Department of Music Education
and Director of the Choir*

JOYCE J. TAYLOR, B.S.
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FACULTY

PROFESSORS

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Director of Practice Teaching*
B.S., M.S., South Carolina State College; Ph.D., Ohio State University

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ASSOCIATE PROFESSORS

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

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 B.A., St. Francis College; M.A., George Washington University

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 B.S., Alderson-Broadus College; M.A., Bowling Green State University

BLANCHE JORDAN, M.A.
Instructor of Psychology and Assistant in Educational
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 B.S., Howard University; M.A., Hunter College

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 B.S., Florida A. & M. University; M.A., New York University

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Head of the Department of Music
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TOSSIE E. TAYLOR, JR., M.S.
Instructor of Biology
 B.S., M.S., North Carolina College

*Part of the year

MARGARET THORPE, M.S.
Instructor of Home Economics
 B.S., Shaw University; M.S., North Carolina College

HARRY WASHINGTON, III, M.A.
Instructor of Mathematics and Chemistry
 B.A., Talladega College; M.A., New York University

VISITING LECTURERS

SAMUEL M. ARNOLD, B.A., LT. COL.
Lecturer in Military Science and Tactics
 B.A., University of Delaware

*VIRGINIA M. DENNIS, M.A.
Lecturer in Department of Health and Physical Education
 B.S., Hampton Institute; M.A., New York University

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

*Part of the year

FACULTY COMMITTEES FOR THE 1963-64 ACADEMIC YEAR

ADMINISTRATIVE COUNCIL

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MR. R. OLIVER, JR.	DR. R. HENDERSON
DR. W. DANIEL	MR. F. KING
MR. F. FRANKLIN	DR. Y. PU

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MR. J. WILLIAMS	MRS. L. FRANKLIN
MISS H. WILLIAMS	MR. E. LEVANT
DR. M. BAKER	MR. R. OLIVER, JR.
DR. T. LI	MR. H. WILLIAMS— <i>Student</i>
MR. U. WASHINGTON	

CURRICULUM COMMITTEE

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DR. W. WYNDER	MR. A. BRAGG
MRS. E. MOORE	MR. J. PRICE
DR. H. WEAVER	DR. Y. PU
MR. J. WILLIAMS	DR. E. HARRIS
MR. R. WALKER	

FACULTY EXECUTIVE COMMITTEE

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DR. M. THOMASSON	MISS H. WILLIAMS
MR. R. WALKER	DR. E. HARRIS
DR. W. WYNDER	

FACULTY RESEARCH COMMITTEE

DR. M. CALDWELL— <i>Chairman</i>	MR. J. HOWELL
MR. A. BRAGG	DR. T. LI
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FACULTY COUNCIL

MRS. E. MOORE— <i>Chairman</i>	MISS N. PATRICK
MR. U. WASHINGTON	MRS. L. FRANKLIN
MR. C. KENNERLY	MR. J. BLANCHARD— <i>Student</i>

FACULTY—STAFF WELFARE COMMITTEE

MR. R. OLIVER, JR.— <i>Chairman</i>	MR. R. WALKER
MR. E. TALBERT	MISS M. MORRISON
MR. H. WASHINGTON, III	

LIBRARY COMMITTEE

DR. Y. PU— <i>Chairman</i>	MRS. M. BROWN
MRS. J. HENDERSON	MR. A. BRAGG
MRS. M. CHRISTOPHE	MRS. L. SAULSBURY
MISS M. THORPE	MR. M. DREW— <i>Student</i>

LYCEUM COMMITTEE

MR. R. STONE— <i>Chairman</i>	MR. J. GARDNER
MISS M. MORRISON	MR. J. MCCOLLOUGH
MISS N. HOMAN	MR. E. ATKINSON— <i>Student</i>

SCHOLARSHIP COMMITTEE

DR. R. HENDERSON— <i>Chairman</i>	DR. W. WYNDER
DR. E. HARRIS	MR. F. KING
MR. J. PRICE	MISS J. DAWKINS
MR. F. FRANKLIN	MR. R. OLIVER, JR.

STUDENT PERSONNEL COMMITTEE

MR. F. FRANKLIN— <i>Chairman</i>	MR. N. DAVIS
DR. T. LI	MRS. L. THOMASSON
MISS L. JOHNSON	MR. E. TALBERT
MISS C. WARREN	REV. P. MABRY

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, Counseling and Testing; the Business Manager; the Director of Student Personnel and Placement; Alumni and Public Relations; the Faculty; Audio-Visual Aids Center; Reading 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 Biological Sciences, Education and Psychology, Music Education, Physical Sciences; and the offices of the Student Government and the College newspaper (The Hornet), 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 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 medical doctor are employed.

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

Trades Building. This structure houses classrooms, workshops, and offices of the Department of Agriculture.

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 an 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 Wom-

en'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.

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 makes 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.

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 collegiate and inter-collegiate basis.

Greek Letter Organizations

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.

Assemblies

College Assemblies are held once each week. The programs include addresses by visiting lecturers, student programs, concerts, etc.

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, 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)	\$300.00
College Fee	60.00
Registration Fee (not refundable)	30.00
Medical Fee	15.00
*Student Insurance	15.00
Student Activity Fee	35.00
Room and Board	470.00
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	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	\$ 3.00
Agriculture 202	3.00

*Student Insurance is required of all full-time students. This insurance covers, with limitations, medical and hospital charges due to accidents or illnesses.

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

Agriculture 308	2.50
Agriculture 416	2.50
Art 202	5.00
Art 204	2.00
Art 301	2.00
Art 302	5.00
Biology	7.00
Business Machines	5.00
***Chemistry	8.00
Home Economics 102	5.00
Home Economics 104	3.00
Home Economics 202	3.00
Home Economics 203	8.00
Home Economics 207	5.00
Home Economics 208	8.00
Home Economics 301	3.00
Home Economics 304	3.00
Home Economics 305	5.00
Home Economics 308	3.00
Home Economics 312	8.00
Home Economics 402	5.00
Physics	5.00
Typing	5.00

***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.

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.

	First Semester		Second Semester		Total Per Yr.
	First Pay- ment	Second Pay- ment	First Pay- ment	Second Pay- ment	
Room and Board	\$120.75	\$114.25	\$120.75	\$114.25	\$470.00
Registration Fee	15.00		15.00		30.00
College Fee	15.00	15.00	15.00	15.00	60.00
Student Activity Fee	8.75	8.75	8.75	8.75	35.00
Tuition	75.00	75.00	75.00	75.00	300.00
Medical Fee	3.75	3.75	3.75	3.75	15.00
Student Insurance	15.00				15.00
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 9/14/64	11/16/64	Second Semester 2/4/65	4/13/65	Total Per Yr.
*Boarding Resident Student	\$179.50	\$143.00	\$164.50	\$143.00	\$630.00
Boarding Non-Resident Student	254.50	218.00	239.50	218.00	930.00
Non-Boarding Resident Student	58.75	23.75	43.75	28.75	160.00
Non-Boarding Non-Resident Student	133.75	103.75	118.75	103.75	460.00

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 student 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.

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

Withdrawal Refunds

Students withdrawing from College after the beginning of classes are entitled to refunds of regular semester fees according to the following schedule:

- Within ten days—All regular fees refunded except the registration fee and one-sixth of the room and board fee;
- Within thirty days—One-half of the regular fees for the semester and one-third of the room and board fee;
- Within fifty days—Refund of one-half of the room and board fee for the semester only. Thereafter, no refund.

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, deportment, 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, Counseling, and Testing, 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, Counseling, and Testing 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. Admission to any of the regularly scheduled courses will be denied fourteen calendar days after classes have begun.

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.

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 issued at the end of each semester. Advisory grades are given at intervals of nine weeks during the academic 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 twelve or more semester hours during the preceding semester, earned a scholastic average of 3.0 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—World 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. Two full years of physical education are generally required.

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 101, 102, 201, 202—P. E. Skills	4

Humanities 14

Required of all:

The Humanities 201-202—World Literature, Fine Arts, Music, Philosophy	8
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Six additional hours to be selected from:

Art 102—Appreciation of Art	2
Art 201—Fine Arts	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—Religions of Mankind	3
Spanish 101-102—Elementary Spanish	6
Spanish 201-202—Intermediate Spanish	6

Natural Sciences 14

Required of all:

Mathematics 101—Introduction to Mathematics	3
*Mathematics 102—Introduction to Mathematics	3

or

Mathematics 104—Analytic Geometry	3
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Eight to ten credits to be selected from:

Biology 101-102—General Zoology and Botany	8
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*Biology, Chemistry, Mathematics, and Physics majors are to substitute Mathematics 104 for Mathematics 102.

Chemistry 101-102—General Chemistry	8
Physics 201-202—General Physics	10
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
Government 201—American 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 and Western Civilization.

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 classes in English Composition and in Western Civilization 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 these courses. It is necessary for students in this group to earn a cumulative average of at least 1.70 by the end of the first year. If such an average is not earned, they will be dismissed from the College. The program also provides for students to be transferred, depending upon their academic performance during the freshman year, from one particular Track to another.

CURRICULUM ORGANIZATION

The curriculum of the College for the 1963-64 school year involved twelve departments: Agriculture, Biology, Economics and Business Administration, Education and Psychology, Health and Physical Education, History and Political Science, Home Economics, Literature and Lan-

guages, Mathematics, Music Education, Physical Sciences, and Sociology and Anthropology.

In the 1964-65 school year, the curriculum will involve the following departments: Agriculture, Biology, Chemistry, Economics and Business Administration, Education, English, Foreign Languages, Health and Physical Education, History and Political Science, Home Economics, Mathematics, Music Education, 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 juniors, 300; and those primarily for seniors, 400. Hyphenated numbers (e.g. English 101-102) represent year courses.

THE DEPARTMENT OF AGRICULTURE

The Department of Agriculture offers both professional courses set up to prepare students for educational service and also technical courses designed to develop production skills. It offers some courses which may be selected by students of other departments as a part of their study programs. These experiences are designed to prepare teachers of vocational agriculture for the secondary schools; to train present and prospective farmers for a more permanent, proficient, and prosperous agriculture; to prepare students for prospective positions of leadership in agriculture and related agricultural industries; to develop an appreciation for the place of agriculture and rural life in a democratic society; and to aid students in developing an appreciation of the role of science in the production, processing, and marketing of agricultural products.

CURRICULUM IN AGRICULTURE

Freshman Year			
First Semester		Second Semester	
	Hours		Hours
English 101	3	English 102	3
History 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 101	1	Physical Education 102	1
	15		16
Sophomore Year			
First Semester		Second Semester	
	Hours		Hours
Humanities 201	4	Humanities 202	4
English 200	2	Philosophy 202	3
Philosophy 201	3	Biology 202	4
Psychology 201	3	Chemistry 104	4
Chemistry 103	4	Physical Education 202	1
Physical Education 201	1		
	17		16

Junior Year

First Semester	Hours	Second Semester	Hours
Biology 303	4	English 204	3
Biology 305	4	Agriculture 206	3
Economics 307	3	Agriculture 208	3
English 203	3	Agriculture 210	3
Agriculture 301	3	Agriculture 302	3
	17	History 104	1
			16

Senior Year

First Semester	Hours	Second Semester	Hours
Biology 307	4	Agriculture 310	3
Agriculture 304	3	Agriculture 308	3
Agriculture 313	3	Agriculture 309	3
Agriculture 317	3	Agriculture 414	3
Agriculture 409	3	Agriculture 416	3
	16		15

CURRICULUM IN AGRICULTURAL EDUCATION

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
Biology 101	4	Biology 102	4
Education 101	1	Health Education 101	2
Physical Education 101	1	Physical Education 102	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 201	1	Physical Education 202	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 411	1	Agriculture 414	3
Education 415	3	Agriculture 416	2
Agriculture 405	3		
Agriculture 409	3		
	16		16

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 food 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. 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. 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.

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 201 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. 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.

403. AGRICULTURAL 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.

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-one hours distributed as follows are required: Biology 101, 201, 202, 204, 303, 305, and 401.

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

(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 101	1	Physical Education 102	1
Biology 101	4	Biology 102	4
Mathematics 101	3	Mathematics 104	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
Physical Education 201	1	Physical Education 202	1
German 101 or French 101	3	German 102 or French 102	3
Biology 201	4	Biology 202	4
	16		16

Junior Year

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

Senior Year

First Semester	Hours	Second Semester	Hours
Biology 305	4	Biology 303	3
Physics 201	5	Physics 202	5
Biology 401	4	Electives	4-6
Electives	3-5		
	16-18		12-14

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
Physical Education 101	1	Physical Education 102	1
Biology 101	4	Biology 102	4
Mathematics 101	3	Mathematics 104	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
Physical Education 201	1	Physical Education 202	1
French 101 or German 101	3	French 102 or German 102	3
Biology 201	4	Biology 202	4
Psychology 201	3	Education 204	3
	19		19

Junior Year

First Semester	Hours	Second Semester	Hours
Government 201	3	Psychology 204	3
Psychology 305	3	Psychology 302	3
Physics 201	5	Physics 202	5
French 201 or German 201	3	French 202 or German 202	3
English 200	2	Biology 204	4
	16		18

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

BIOLOGY

101. GENERAL ZOOLOGY. An introduction to the study of animal life with emphasis upon basic concepts and a phylogenetic survey of the animal kingdom. Morphology, physiology, and life history are included in the survey. Some attention is given to the relationship of the animal to its environment. Two lectures and two laboratory periods per week. Credit, four hours.

102. GENERAL BOTANY. An introduction to the study of plant life stressing basic concepts, the biology and seed plants, and a brief phylogenetic survey of the plant kingdom. Two lectures and two laboratory periods per week. Credit, four hours.

201. COMPARATIVE VERTEBRATE ANATOMY. A comparative study of the vertebrate groups 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 classification and identification of plants. Particular emphasis is placed on the field study of plants found in this region. Two lectures and two laboratory periods per week. Prerequisite: Biology 102. Credit, four hours.

203. 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.

204. HUMAN PHYSIOLOGY. Elementary principles of physiology with emphasis upon the function of the human organs and organ systems. Two lectures and two laboratory periods per week. Prerequisite: Biology 101. Credit, four hours.

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 and 102. Credit, three hours.

304. HISTOLOGY 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 and 102 or Biology 101 and 204. Credit, four hours.

307. ENTOMOLOGY. A study of the morphology, classification, life history, distribution, and economic importance of insects, including field work. Two lectures and two laboratory periods per week. Prerequisite: Biology 101. Credit, four hours.

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.

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, 405-406, 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-two hours distributed as follows are required: Chemistry 101-102, 201, 301-302, 303-304, and 405-406.

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 Student Affiliates of the American Chemical Society 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 101	1	Physical Education 102	1
	18		19

Sophomore Year

First Semester	Hours	Second Semester	Hours
Chemistry 201	4	Biology 101	4
Chemistry 301	5	Chemistry 302	5
German 201	3	German 202	3
Mathematics 201	3	Mathematics 202	3
Physics 201	5	Physics 202	5
	20		20

Junior Year

First Semester	Hours	Second Semester	Hours
Biology 102	4	Chemistry 304	4
Chemistry 303	4	Chemistry 306	4
Humanities 201	4	Chemistry 308	4
Mathematics 205	3	Humanities 202	4
Physical Education 201	1	Mathematics 206	3
Psychology 201	3	Physical Education 202	1
	19		20

Senior Year

First Semester	Hours	Second Semester	Hours
Chemistry 405	1	Chemistry 406	1
English 200	2	Elective (Chemistry)	3
History 104	1	Electives	12
Elective (Chemistry, Math. or Physics)	3		
Elective (Social Science 201)	3		
Electives	6		
	16		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	5	Mathematics 104	3
Physical Education 101	1	Physical Education 102	1
	<hr/> 18		<hr/> 19

Sophomore Year

First Semester	Hours	Second Semester	Hours
Chemistry 201	4	Biology 101	4
Chemistry 301	5	Chemistry 302	5
German 201	3	German 202	3
Mathematics 201	3	Mathematics 202	3
Physics 201	5	Physics 202	5
	<hr/> 20		<hr/> 20

Junior Year

First Semester	Hours	Second Semester	Hours
Biology 102	4	Chemistry 304	4
Chemistry 303	4	Education 204	3
Humanities 201	4	Humanities 202	4
Mathematics 205	3	Mathematics 206	3
Physical Education 201	1	Physical Education 202	1
Psychology 201	3	Psychology 204	3
	<hr/> 19		<hr/> 21

Senior Year

First Semester	Hours	Second Semester	Hours
Chemistry 405	1	Chemistry 406	1
Education 312	3	Education 412	8
Education 403	3		
Education 405	3		
Education 411	1		
English 200	2		
History 104	1		
Psychology 305	3		
Elective (Social Science 201)	3		
	<hr/> 20		<hr/> 9

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 agriculture and home economics. Three lectures and one 150-minute laboratory period per week. Corequisites: Mathematics 101 and 102 or 104. Credit, four 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. GLASS BLOWING. 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 201 and 301-302; Mathematics 201-202; Physics 201-202. Corequisite: 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; spectography; 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. Prerequisite: Chemistry 303. Corequisite: Chemistry 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 geometrical 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. Credit, three hours.

403. 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.

405-406. 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	4	History 102	3
Biology 101 or Chemistry 101	4	Biology 102 or Chemistry 102	1
Physical Education 101	1	Physical Education 102	1
Foreign Language	3	Foreign Language	3
Education 101	1	Business 108	3
Health Education 101	2		
	<u>17</u>		<u>17</u>

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	3
Foreign Language	3	Mathematics 102	3
Mathematics 101	3	Physical Education 202	1
Physical Education 201	1	Electives	3
	<u>17</u>		<u>17</u>

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
	<u>14</u>		<u>16</u>

Senior Year

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

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, seasonal and cyclical fluctuations; index number theory, construction, and application; correlation; applications of statistical techniques to economic and business problems. Prerequisite: Economics 307. Credit, three hours.

312. ECONOMIC HISTORY. The economic development of the United States from the period of settlement to the present time. Emphasis on the origin and growth of leading American industries; changes in industrial organizations; commercial and monetary developments. Credit, three hours.

314. CONTEMPORARY ECONOMIC PROBLEMS. An introduction to economic reasoning; an analysis of the problems 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. Prerequisite: 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
Physical Education 101	1	Physical Education 102	1
Foreign Language	3	Foreign Language	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	3	Foreign Language	3
Mathematics 101	3	Mathematics 102	3
Physical Education 201	1	Physical Education 202	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 101	1	Physical Education 102	1
Foreign Language	3	Foreign Language	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	3	Foreign Language	3
Mathematics 101	3	Mathematics 102	3
Physical Education 201	1	Physical Education 202	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	Physical Education 102	1
Education 101	1	Geography 102	3
Secretarial Science 101	2	Secretarial Science 102	2
History 101	3	History 102	3
Physical Education 101	1	History 104	1
	16		17

Sophomore Year

First Semester	Hours	Second Semester	Hours
Business 205	3	Business 206	3
Secretarial Science 201	2	Secretarial Science 202	2
Secretarial Science 103	3	Secretarial Science 104	3
Physical Education 201	1	Physical Education 202	1
Mathematics 101	3	Business 108	3
Business 211	3	Mathematics 102	3
Humanities 201	4	Humanities 202	4
	<hr/> 19		<hr/> 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	Philosophy 202	3
Psychology 201	3	Secretarial Science 302	3
Music 101	2	Psychology 302	3
Art 102 or 201	2		
	<hr/> 18		<hr/> 18

Senior Year

First Semester	Hours	Second Semester	Hours
Business 401	3	Education 412	8
Business 301	3	Business 328	3
Business 327	3	Secretarial Science 402	3
Secretarial Science 401	3		
Electives	3		
Education 411	1		
	<hr/> 16		<hr/> 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.

205-206. ACCOUNTING I AND II. An elementary course. Considers fundamental accounting principles, concepts of debit and credit, records, simple forms, and other basic items. Prerequisite for Business 206 is Business 205. Credit, six 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.

305-306. ACCOUNTING III AND IV. Provides instruction in more advanced and complex accounting procedures, particularly those con-

nected with the work of corporations and other modern types of business organization. Prerequisites for Business 305 are Business 205 and Business 206. Prerequisites for Business 306 are Business 205, Business 206 and Business 305. Credit, six 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
Physical Education 101	1	Physical Education 102	1
Education 101	1	History 102	3
Health Education 101	2	History 104	1
History 101	3	Business 108	3
	<u>16</u>		<u>17</u>

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
Physical Education 201	1	Humanities 202	4
Mathematics 101	3	Physical Education 202	1
Humanities 201	4	Mathematics 102	3
Music 101	2		
	<u>18</u>		<u>16</u>

Junior Year

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

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		
	<u>15</u>		<u>12</u>

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 student 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

(Formerly in the Department of Education and Psychology)

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 schools.

Fields of study in this Department are Art and Elementary Education. Courses in education are also 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
Mathematics 101	3	Mathematics 102	3
Education 101	1	Health Education 101	2
Physical Education 101	1	Physical Education 102	1
	<hr/> 15		<hr/> 16

Sophomore Year

First Semester	Hours	Second Semester	Hours
History 101	3	History 102	3
Humanities 201	4	Humanities 202	4
Philosophy 201	3	Philosophy 202	3
Science 201	4	Psychology 204	3
Music 101	2	Art 102	2
History 104	1	English 200	2
Physical Education 201	1	Physical Education 202	1
	<hr/> 18		<hr/> 18

Junior Year

First Semester	Hours	Second Semester	Hours
Education 301	3	Education 302	3
Education 303	3	Education 308	3
Music 201	3	Psychology 302	3
Psychology 303	3	History 202	3
History 201	3	Geography 101	3
Art 201	2	Art 202	2
	<hr/> 17		<hr/> 17

Senior Year

First Semester	Hours	Second Semester	Hours
Education 411	1	Education 400	8
Education 413	3	Health Education 308	3
Education 312	3		
Education 305	3		
Physical Education 303	3		
Education 304	2		
Elective	3		
	<hr/> 18		<hr/> 11

ART

102. ART APPRECIATION. This is a survey course in art illustrated with prints, slides, and filmstrips, treating periods and outstanding personalities in painting, sculpture and architecture from pre-historic times to the present. Special attention is given to methods of teaching art in the elementary school and in related fields. Credit, two hours.

201. FINE ARTS. This course includes color theory, exercises in line drawings, perspective, charcoal, crayon, pencil, water color, pastel, lettering, outdoor sketches, plant life, blackboard illustrations, border designs, and methods of teaching drawings and lesson planning. Credit, two hours.

202. INDUSTRIAL ARTS. This course includes experiences in clay modeling and pottery, chip carving, block printing, batik, tie dying, sten-

cil application, spinning, weaving, puppet making, collages and lessons in paper cutting; making of mobiles and other proctive projects. Two laboratory periods per week. Credit, two hours.

204. MARIONETTES, MASKS, AND SHADOWS. This course includes the construction of masks, shadow puppets, and the manipulation of marionettes. Credit, three hours.

301. DRAWING, PAINTINGS, AND DESIGN. This course is designed to develop the ability of the student who is interested in art but has not had the opportunity to take formal training in art courses. It deals with line color, form, and design. An intensive study of color, along with its application to painting, is emphasized. Credit, three hours.

302. CERAMICS, MODELING AND SCULPTURE. This is a beginning course which is designed for students who are not familiar with clay paper mache, and plaster and their possibilities. Emphasis is placed on design and originality in form. Modeling and sculpture techniques are stressed. Credit, three hours.

303. POTTERY. This is a more advanced course than ceramics. It may be taken, however, as a beginning course without first having had ceramics. Emphasis is placed on designing and building of free form pottery, the building on the hand potter's wheel, throwing on electric potter's wheel; surface enrichment; preparation and applications of low fired and high fired glazes; placing and firing the kilns. Credit, three hours.

304. LETTERING. This is an elementary course designed mainly for elementary teachers but without prerequisites. It consists of lettering with various pens, paints and crayons, layout, cards, book pages, simple booklets, and posters. The historic development in writing and lettering from ancient to modern times will also be stressed. Emphasis will be placed upon modern styles of lettering. Credit, two hours.

305. POSTER MAKING. This course is designed mainly for elementary and high school teachers and people who are interested in commercial art. The development of the poster as a means of visual aid in the classroom and as a medium of advertising in industry is studied. This course offers the student the opportunity to develop creative ability and work in several media: constituents of a good poster in representing ideas, practice in lettering on posters, lessons in paper cutting, and free brush work on posters. Credit, two hours.

306. INTERIOR DESIGN. This course is designed to study the problems of furnishing and decorating the home with emphasis on the artistic and practical ways and experiences for improving it. There will be exercises in color harmonies and color theory. Traditional and contemporary period styles in furniture are taught. Credit, three hours.

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. This course deals with scientific methods of teaching the elementary child how to read effectively. Attention is given to how desirable habits, skills, and appreciations may be developed in and through reading. Some attention is given to the use of reading tests and remedial devices for reading disabilities. Prerequisites: Education 204 and Psychology 204. Credit, three hours.

302. TEACHING OF ENGLISH IN ELEMENTARY SCHOOLS. English courses of study for elementary schools are studied. Opportunities in which prospective teachers participate through drills, reviews, and recitations concerned with increasing their own skill in correct oral and written usage are provided. Prerequisites: Education 204 and Psychology 204. 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 wholesale personality growth. Prerequisites: Education 204, Psychology 204. 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.

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.

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 textbooks, and the construction of a syllabus are emphasized. Demonstrations of classroom procedure and practice teaching are also covered. Credit, three hours.

411. SEMINAR IN TEACHER TRAINING. A study of the role of practice 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 practice teaching in the field of Vocational Agriculture. Credit, eight hours.

412H. PRE-SERVICE TRAINING IN THE SECONDARY SCHOOL. This course provides experience in observing and participating in responsible practice 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.

THE DEPARTMENT OF ENGLISH

(Formerly in the Department of Literature and Languages)

The Department of English makes several important contributions to the experience and background of the student. It fosters a desire to develop the ability to communicate with clarity, accuracy, and effectiveness in speaking and writing and to read critically and leisurely, with the aim of understanding man and his world. Courses in the Department contribute to an understanding of and an appreciation for man's cultural heritage in philosophy, religion, and the fine arts. An acquaintance with one or more foreign languages and the literature of these languages is encouraged.

For a major in English, thirty hours distributed as follows are required: English 200, 203, 306-307, eleven hours of electives in English, and Humanities 201-202.

CURRICULUM IN ENGLISH

(Students following this curriculum who desire to teach on the secondary level should elect the courses in education and psychology required for certification.)

Freshman Year			
First Semester		Second Semester	
	Hours		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 101	1	Physical Education 102	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 202	1
Physical Education 201	1	Electives	6
Elective (Social Science 201)	3		
	<hr/> 16		<hr/> 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
	<hr/> 16		<hr/> 16

Senior Year

First Semester	Hours	Second Semester	Hours
English 402	3	English 403	3
Electives	12	Electives	9
	<hr/> 15		<hr/> 12

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.

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

204. **THE ENGLISH LANGUAGE.** This course is an intensive study of the nature and structure of modern English stressing sentence structure, current usage, and vocabulary. Credit, three hours.

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.

401. **VICTORIAN LITERATURE.** The aim of this course is to present selected readings of the major poets of the period, Tennyson, Browning, Rosetti, 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.

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. Prerequisites: English 101-102. Credit, eight hours.

PHILOSOPHY

201. **INTRODUCTION TO PHILOSOPHY.** This introductory course is designed to familiarize the student with the purpose, problems, and methods of philosophical thinking. It aims to lead the student to organize his own life-view and world-view in the light of a critical examination of his ideas of typical philosophic positions. Credit, three hours.

202. **RELIGIONS OF MANKIND.** The aim of this course is to increase the student's awareness of the role of religion in the history of the world. A study is made of the origins, founders, and basic philosophies affecting mankind in his relationship to the universe. Credit, three hours.

203. **ETHICS.** This course is a philosophical investigation into the nature and obligation of man. A study of the chief theories of human conduct and moral judgment will be made with this bearing on a correct interpretation of the meaning and value of the moral life. Credit, three hours.

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

301. **POLITICAL PHILOSOPHY.** This course is an historical account and analysis of political ideas of western thought. Credit, three hours.

THE DEPARTMENT OF FOREIGN LANGUAGES

(Formerly in the Department of Literature and 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 graduate 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.

Students who have completed at least two years of a language on the high school level may take a standardized examination for exemption from the elementary course in that language, but must take twelve additional hours to satisfy the college or departmental requirements for a foreign language.

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 101	1	Physical Education 102	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
Physical Education 201	1	Physical Education 202	1
Foreign Language 201	3	Foreign Language 202	3
Psychology 201	3	Foreign Language 102 (in minor)	3
English 200	2	Education 204	3
Foreign Language 101 (in minor)	3		
	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 (in minor)	3
Education 405	3	Elective	3
Foreign Language 201 (in minor)	3		
	18		15

Senior Year

First Semester	Hours	Second Semester	Hours
Education 403	3	Education 412	8
Education 411	1	Foreign Language 306	3
Education 409	3	Foreign Language 302 (in minor)	3
Foreign Language 305	3		
Foreign Language 301 (in 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, Fenelon, Corneille, Racine and Moliere. Class conducted in French. Prerequisite: 12 semester hours of French. Credit, six 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.

305-306. 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.

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.

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. Prerequisite: 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 development 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.

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
Education 101	1	English 102	3
English 101	3	Mathematics 102	3
History 101	3	History 102	3
Biology 101	4	Biology 102	4
Mathematics 101	3	Health Education 101	2
Physical Education 101	1	Physical Education 102	1
	15		16

Sophomore Year

First Semester	Hours	Second Semester	Hours
English 200	2	Humanities 202	4
Humanities 201	4	Biology 204	4
Psychology 201	3	Education 204	3
Physical Education 201	1	Physical Education 202	1
Biology 203	4	History 104	1
Philosophy 201	3	Philosophy 202	3
or		or	
Music 101	2	Art 102	2
		or	
		Art 201	2
	16 - 17		15 - 16

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
Physical 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	English 102	3
English 101	3	Mathematics 104	3
History 101	3	History 102	3
Mathematics 101	3	Chemistry 102	4
Chemistry 101	4	Physical Education 102	1
Physical Education 101	1	Health Education 101	2
	15		16

Sophomore Year

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

Junior Year

First Semester	Hours	Second Semester	Hours
Biology 203	4	Biology 204	4
Home Economics 301	3	Physics 202	5
Physics 201	5	German 202	3
German 201	3	Health Education 308	3
Electives	2	Physical Education 312	3
	17		18

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
		Electives	5
	15		18

CURRICULUM IN HEALTH EDUCATION

Freshman Year

First Semester	Hours	Second Semester	Hours
Education 101	1	English 102	3
English 101	3	Mathematics 102	3
History 101	3	History 102	3
Physical Education 101	1	Health Education 101	2
Mathematics 101	3	Physical Education 102	1
Chemistry 101	4	Chemistry 102	4
	<hr/> 15		<hr/> 16

Sophomore Year

First Semester	Hours	Second Semester	Hours
Biology 101	4	Humanities 202	4
Humanities 201	4	Education 204	3
Psychology 201	3	Physical Education 202	1
Physical Education 201	1	English 200	2
Sociology 201	3	Health Education 204	2
History 104	1	Psychology 204	3
	<hr/> 16	Health Education 216	2
			<hr/> 17

Junior Year

First Semester	Hours	Second Semester	Hours
Biology 203	4	Biology 204	4
Home Economics 301	3	Health Education 308	3
Philosophy 201	3	Philosophy 202	3
Health Education 305	3	Physical Education 310	3
Health Education 311	3	Health Education 314	3
	<hr/> 16		<hr/> 16

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
Physical Education 409	3	Education 312	3
Health Education 413	2	Electives	2
Electives	2		<hr/> 17
	<hr/> 14		

CURRICULUM FOR RECREATION

Freshman Year

First Semester	Hours	Second Semester	Hours
Education 101	1	English 102	3
English 101	3	Mathematics 102	3
History 101	3	History 102	3
Physical Education 101	1	Biology 102	4
Mathematics 101	3	Health Education 101	2
Biology 101	4	Physical Education 102	1
	<hr/> 15		<hr/> 16

Sophomore Year

First Semester	Hours	Second Semester	Hours
Biology 203	4	Biology 204	4
Humanities 201	4	Humanities 202	4
Psychology 201	3	Psychology 204	3
Physical Education 201	1	Physical Education 202	1
Sociology 201	3	Sociology 202	3
Music 101	2	Physical Education 205	1
	<hr/> 17		<hr/> 16

Junior Year

First Semester	Hours	Second Semester	Hours
Physical Education 311	1	History 104	1
Art 201	2	Physical Education 302	1
Physical Education 301	1	Physical Education 304	3
Physical Education 309	2	Physical Education 306	1
Physical Education 303	3	Art 102	2
Physical Education 307	3	English 200	2
Physical Education 315	1	Physical Education 312	3
Sociology 301	3	Electives	3
	<hr/> 16		<hr/> 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
	<hr/> 15		<hr/> 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.

311. MENTAL HYGIENE. Determinants of personality structure emphasizing psychogenic development of normal behavior; roles of home, school, and community in prevention of maladjustment. Credit, three hours.

314. 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

101. **PHYSICAL EDUCATION SKILLS.** Progressive practice of skills and techniques in touch football, basketball, social dance, Tennis I, Swimming I, Swimming II, and badminton. Credit, one hour.

102. **PHYSICAL EDUCATION SKILLS.** Progressive practice of skills and the techniques in track and field, volleyball, Swimming II, softball, folk and square dance, Tennis I, and Swimming I. Credit, one hour.

103. **INTRODUCTION TO HEALTH AND PHYSICAL EDUCATION.** Designed to give an over-view of the field of physical education. Credit, three hours.

201. **PHYSICAL EDUCATION SKILLS.** Progressive practice of skills and techniques in: Tennis I, badminton, paddle tennis, fencing, trampoline, bowling, and modern dance. Credit, one hour.

202. **PHYSICAL EDUCATION SKILLS.** Progressive practice in skills and techniques in: Tennis II, archery, Swimming II, golf, recreational sports, tap dance, paddle tennis, apparatus. Credit, one hour.

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.

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 the senior high school. 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.

For a major in History, thirty-six hours distributed as follows are required: History 101-102, 201-202, 301-302, 305, 306, 308, 401, 403, and 404.

For a minor in History, twenty-four hours distributed as follows are required: History 101-102, 201-202, 301-302, 306, and 404.

CURRICULUM IN HISTORY AND POLITICAL SCIENCE

(Students following this curriculum who desire to teach on the secondary level should elect the courses in education and psychology required for certification.)

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
Physical Education 101	1	Physical Education 102	1
Education 101	1	Health Education 101	2
	15		16

Sophomore Year

First Semester	Hours	Second Semester	Hours
Humanities 201	4	Humanities 202	4
Foreign Language 101	3	Foreign Language 102	3
Government 201	3	History 202	3
Physical Education 201	1	Physical Education 202	1
English 200	2	History 104	1
Electives	3	Government 202	3
	16		15

Junior Year

First Semester	Hours	Second Semester	Hours
Foreign Language 201	3	Foreign Language 202	3
History 301	3	History 302	3
Psychology 201	3	Electives	9
Electives	6		
	15		15

Senior Year

First Semester	Hours	Second Semester	Hours
History 404	4	Electives	15
Electives	12		
	16		15

GEOGRAPHY

101. **HUMAN GEOGRAPHY.** This course is concerned with the relationship between man and land and with changes that have been 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.

GOVERNMENT

201. **AMERICAN GOVERNMENT.** Analysis and description of the organization and functioning of the federal government, with some attention to state government. Credit, three hours.

202. **COMPARATIVE GOVERNMENT.** A survey of the political systems of Britain, France, the United States, Russia, Germany, and a selected number of major powers of Asia. Credit, three hours.

HISTORY

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

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

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, economic, and social developments are given adequate emphasis. Credit, six hours.

301-302. **HISTORY OF ENGLAND.** The political, social, economic, and cultural growth of the English national state. Credit, six hours.

305. **THE AMERICAN FRONTIER.** This course deals with the history of the frontier from the period of the settlement until the closing years of the nineteenth century and interprets it as a factor in the shaping of the civilization of the United States. Offered in alternate years. 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 in source" will be developed among the students 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.

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

312. **ECONOMIC HISTORY OF THE UNITED STATES.** A study of the development of economic activity in the United States, with major emphasis upon such post-Civil War phenomena as the rise of industry, transportation and communication systems, labor organization, commercialization of agriculture, and the role of government in the economy. Credit, three hours.

401. **CONTEMPORARY CIVILIZATION.** World developments in the twentieth century, with primary emphasis on western Europe. Considerable attention is given to recent changes in Africa, the Near East, and the Far East. Offered in alternate years. Credit, three hours.

402. **CONSTITUTIONAL HISTORY OF THE UNITED STATES.** Covers the entire period of the constitution. Changing interpretations during and since the era of Chief Justice Marshall and recent trends receive close attention. Offered in alternate years. Credit, three hours.

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.

404. **SEMINAR IN HISTORY.** Prescribed for seniors in history. An introduction to historiography and methodology. Individual research problems in some field of special interest are conducted to develop an understanding, appreciation, and skills in the use of the literature in the field, and in the use of appropriate techniques in the solution of historical problems. Prerequisite: Senior standing in the department or consent of the departmental chairman. 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	History 104	1
Mathematics 101	3	Mathematics 102	3
Education 101	1	Art 102	2
Health Education 101	2	Home Economics 106	3
Home Economics 101	3	Home Economics 102	3
Physical Education 101	1	Physical Education 102	1
	17		16

Sophomore Year

First Semester	Hours	Second Semester	Hours
History 101	3	History 102	3
Humanities 201	4	Humanities 202	4
Chemistry 103	4	Chemistry 104	4
Psychology 201	3	Psychology 204	3
Home Economics 203	3	English 200	2
Physical Education 201	1	Physical Education 202	1
	<hr/> 18		<hr/> 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	4
Art 201	2		
	<hr/> 18		<hr/> 16

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	2		
Music 101	2		
	<hr/> 17		<hr/> 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 104	3
Mathematics 101	3	Mathematics 102	3
Education 101	1	Home Economics 106	3
Home Economics 101	3	Home Economics 102	3
Physical Education 101	1	Physical Education 102	1
Health Education 101	2		
	<hr/> 17		<hr/> 16

Sophomore Year

First Semester	Hours	Second Semester	Hours
History 101	3	History 102	3
Humanities 201	4	Humanities 202	4
Chemistry 103	4	Chemistry 104	4
Psychology 201	3	Psychology 204	3
Home Economics 203	3	Home Economics 204	3
Physical Education 201	1	Physical Education 202	1
	<hr/> 18		<hr/> 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 102	2
	<hr/> 16		<hr/> 17

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 201	2		
Biology 305	4		
Home Economics 405	3		
	<hr/> 16		<hr/> 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 duties of a home to give practice in good management on a given income. Marriage problems and family relationships are discussed with emphasis on human values, social, and recreational needs of family members. Six weeks residence. Prerequisites: Home Economics 203, 301, and 303. Credit, six hours.

407. EXPERIMENTAL COOKERY. Influence of selection and preparation of ingredients, methods of manipulation and cookery on the palatability and nutritive value of foods. Use of inexpensive foods for improving diet. Prerequisite: Home Economics 102. One lecture and two laboratory periods per week. Credit, three hours.

409. QUANTITY COOKERY. Practice in handling food in large quantities, making menus, preparing and serving meals in school cafeterias, estimating profit and loss, and use of institutional equipment. Principles of cafeteria, school lunch, and nursery school management stressed. One lecture and two laboratory periods per week. Credit, three hours.

THE DEPARTMENT OF MATHEMATICS

The Department of Mathematics aims to provide opportunities for all students to develop functional competence in mathematics; to develop an appreciation for the contributions of mathematics to science, business, economics, and the social studies; to develop the power of critical thinking; to prepare majors for careers in teaching, government, and industry; to provide an adequate mathematical background for those students planning to do graduate work in mathematics.

For a major in Mathematics, thirty hours distributed as follows are required: Mathematics 101, 104, 201-202, and eighteen hours of electives in mathematics from courses numbered 200 or above.

For a minor in Mathematics, twenty-one hours distributed as follows are required: Mathematics 101, 104, 201-202, and nine hours of electives in mathematics from courses numbered 200 or above.

CURRICULUM IN MATHEMATICS

(Students following this curriculum who desire to teach on the secondary level should elect the courses in education and psychology required for certification.)

Freshman Year

First Semester	Hours	Second Semester	Hours
Biology 101 or Chemistry 101	4	Biology 102 or Chemistry 102 ..	4
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
Physical Education 101	1	Physical Education 102	1
	<u>15</u>		<u>16</u>

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 201	3	Mathematics 202	3
Physics 201	5	Physics 202	5
Physical Education 201	1	Physical Education 202	1
	<u>16</u>	History 104	<u>1</u>
			<u>17</u>

Junior Year

First Semester	Hours	Second Semester	Hours
French 201 or German 201	3	French 202 or German 202	3
Electives (Mathematics)	6	Electives (Mathematics)	6
Psychology 201	3	Electives	6
Elective	3	English 200	2
Elective (Social Science 201) ..	3		
	<u>18</u>		<u>17</u>

Senior Year

First Semester	Hours	Second Semester	Hours
Elective (Mathematics)	3	Elective (Mathematics)	3
Electives	12	Electives	12
	<u>15</u>		<u>15</u>

MATHEMATICS

101-102. INTRODUCTION TO MATHEMATICS. A course designed to acquaint students with the nature of mathematics with special emphasis on the fundamental operations of mathematics. Treatment of number systems, solution of equations, radicals and exponents, logarithmic and trigonometric functions, and functions and graphs. Credit, six hours.

104. COLLEGE ALGEBRA AND TRIGONOMETRY. A course treating algebraic and trigonometric functions, logarithms, solution of equations, trigonometric identities and equations, and inverse functions. Designed primarily for students wishing to continue study in mathematics and the sciences. Prerequisite: Mathematics 101. Credit, three hours.

105-106. MATHEMATICS FOR ELEMENTARY TEACHERS. A course devoted to the structure of the real number system and its subsystems. Credit, six hours.

201. CALCULUS WITH ANALYTIC GEOMETRY I. A treatment of the straight line, limits, derivatives of algebraic functions, rates, maxima and minima, and the antiderivative. Prerequisite: Mathematics 104. Credit, three hours.

202. CALCULUS WITH ANALYTIC GEOMETRY II. A continuation of Mathematics 201 covering conic sections, the definite integral, derivatives of transcendental functions, and integration by various methods. 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. 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, multiple integrals, and an introduction to differential equations including solution of elementary

first and second order equations. Prerequisite: Mathematics 205. Credit, three hours.

301. DIFFERENTIAL EQUATIONS. Solutions of ordinary differential equations and their applications to various types of problems. Prerequisite: Mathematics 206. Credit, three hours.

302. LINEAR ALGEBRA. Introduction to sets, logic, the theory of dimensional vector spaces, and matrices. Prerequisite: Mathematics 202. Offered in odd alternate years. Credit, three hours.

303. THEORY OF PROBABILITY. Fundamentals of combinatorial analysis, events, conditional probability, and statistical independence; binominal, 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.

499. SEMINAR IN MATHEMATICS. A discussion of selected topics in mathematics. Prerequisite: Consent of the Department. Credit, one hour.

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 101	1	Physical Education 102	1
Music Education 105	1	Health Education 101	2
Education 101	1	Music Education 106	1
Music Education 107 or 115	1	Music Education 108 or 116	1
Music Education 105 (piano)	1	Music Education 106 (piano)	1
Music Education 113	2	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
Physical Education 201	1	Physical Education 202	1
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
	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	Psychology 204	3
English 200	2	History 104	1
Music Education 310 or 317	2	Music Education 202	3
Music Education 321	2	Music Education 312	1
Music Education 105	1	Music Education 106	1
Music Education 106	1	Music Education 306	1
Music Education 307 or 315	1	Music Education 308 or 316	1
	18	Music Education 314	1
			18

Senior Year

First Semester	Hours	Second Semester	Hours
Education 411	1	Education 412	8
Education 403	3	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 311	1		
Music Education 313	1		
Music Education 401	1		
Music Education 403	1		
Music Education 415	1		
	17		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, one hour.

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, one hour.

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. COUNTERPOINT. A study of the various orders, imitation, thematic construction, analysis and practical written exercises of the various contrapuntal forms. Credit, two 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 PHYSICS AND ASTRONOMY

The Department of Physics and Astronomy seeks to provide a thorough training in physics for students desiring to prepare for a career as a physicist in industrial and research laboratories or as a teacher of physics in secondary schools. The Department also provides majors in physics with the courses required for graduate study. Course offerings are available to majors in other areas wishing supplemental training in the principal fields of physics.

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

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

CURRICULUM IN PHYSICS

Freshman Year

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

Sophomore Year

First Semester	Hours	Second Semester	Hours
French 201, German 201 or		French 202, German 202 or	
Russian 201	3	Russian 202	3
Humanities 201	4	Humanities 202	4
Mathematics 201	3	Mathematics 202	3
Physical Education 201	1	Physical Education 202	1
Physics 201	5	Physics 202	5
Psychology 201	3	Elective	3
	19		19

Junior Year

First Semester	Hours	Second Semester	Hours
Biology 101	4	Biology 102	4
English 200	2	Mathematics 206	3
History 104	1	Physics 302	3
Mathematics 205	3	Physics 304	3
Physics 301	3	Electives	6
Physics 303	3		
Elective (Social Science 201) ..	3		
	19		19

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
Chemistry 101	4	Chemistry 102	4
Education 101	1	English 102	3
English 101	3	French 102, German 102 or	
French 101, German 101 or		Russian 102	3
Russian 101	3	Health Education 101	2
History 101	3	History 102	3
Mathematics 101	3	Mathematics 104	3
Physical Education 101	1	Physical Education 102	1
	18		19

Sophomore Year

First Semester	Hours	Second Semester	Hours
French 201, German 201 or		French 202, German 202 or	
Russian 201	3	Russian 202	3
Humanities 201	4	Humanities 202	4
Mathematics 201	3	Mathematics 202	3
Physical Education 201	1	Physical Education 202	1
Physics 201	5	Physics 202	5
Psychology 201	3	Psychology 204	3
	19		19

Junior Year

First Semester	Hours	Second Semester	Hours
Biology 101	4	Biology 102	4
English 200	2	Education 204	4
History 104	1	Education 312	3
Mathematics 205	3	Mathematics 206	3
Physics 303	3	Physics 304	3
Psychology 305	3	Psychology 302	3
Elective (Social Science 201) ..	3		
	19		19

Senior Year

First Semester	Hours	Second Semester	Hours
Education 403	3	Education 412	8
Education 405	3	Physics 402	4
Education 411	1		
Mathematics 301	3		
Astronomy 201	4		
Physics 401	4		
	18		12

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, ten 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 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, direct-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 303-304. Credit, eight hours.

404. MATHEMATICAL METHODS OF PHYSICS. An intermediate course covering physical dimensions and fundamental units, potential theory, vectors, dyadics, 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: Mathematics 301; Physics 303-304. Corequisites: Physics 401 and 402. Credit, six hours.

407. QUANTUM MECHANICS. A course in the basic principles of quantum mechanics covering the Schroedinger 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

(Formerly in the Department of Education and 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	1	English 102	3
Physical Education 101	1	History 102	3
Psychology 201	3	Physical Education 102	1
English 101	3	Psychology 204	3
		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
Physical Education 201	1	Physical Education 202	1
Psychology 207	3	Psychology 206	3
Elective (Social Science 201)	3	Elective	3
	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

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.

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.

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.

419. SENSATION AND PERCEPTION. A study of the anatomy and physiology of receptor processes and the correlated experiences. 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, 406, 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
Physical Education 101	1	Physical Education 102	1
Education 101	1	Health Education 101	2
	15		16

Sophomore Year

First Semester	Hours	Second Semester	Hours
Humanities 201	4	Humanities 202	4
Foreign Language 101	3	Foreign Language 102	3
Physical Education 201	1	Physical Education 202	1
Sociology 201	3	Sociology 202	3
Psychology 201	3	History 104	1
English 200	2	Elective	3
	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
Economics 201	3		
Elective	3		
	15		15

Senior Year

First Semester	Hours	Second Semester	Hours
Sociology 401	3	Sociology 408	3
Sociology 405	3	Sociology 406	3
Electives	9	Electives	9
	15		15

SOCIOLOGY

201. INTRODUCTION TO SOCIOLOGY. A study of group structure, functions, processes, and products. Development of a conceptual framework for use in the systematic study of group life. Credit, three hours.

202. SOCIAL INTERACTION. A study of interpersonal relations, including role behavior; socialization; subcultures and the person; and other phenomena. Designed primarily for majors and minors in sociology. Prerequisite: Sociology 201. Credit, three hours.

206. ANTHROPOLOGY. An introductory course. Devotes some time to the emergence and development of man. Major emphasis is 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; rural social organization; the nature and direction of rural change. Credit, three hours.

303. SOCIAL DEVIATION. A course investigating several areas in which social deviations give rise to major social problems: crime, divorce, juvenile delinquency, and others; employing concepts and principles developed in Introduction to Sociology and Social Interaction. Prerequisites: Sociology 201 and 202. Credit, three hours.

305. URBAN SOCIOLOGY. The ecological structure, social processes, organization and problems of the urban community. Recent urban trends. 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 developmental levels; program building. Prerequisite: Sociology 201. Credit, three hours.

401. THE FAMILY. Historical evolution of the family; family structures and functions; current changes and problems. Prerequisites: Sociology 201 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 senior standing. Credit, three hours.

404. 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.

405-406. 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, six 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.

STUDENT ROSTER

CANDIDATES FOR THE DEGREE OF BACHELOR OF ARTS

Name	Major Field
Arnell, Malcolm	Sociology
Baine, Joshua	History
Ballard, Don Everett	History
Bender, Paul Lester	English
Bishop, Clyde	Sociology
Davis, Bruce Watson	Sociology
Davis, James	English
Dicks, Patricia Alice	Sociology
Griffin, Zella Mae	English
Harley, Gwendolyn Lee	Sociology
Hayward, Woodrow, Jr.	History
Holland, Vincent Rudolph	Sociology
Korb, Donald Dale	Sociology
Livingston, Roland Earl	History
Moyer, Charles Milton	History
Perry, Celestine Loretta	Sociology
Still, William Howard	Sociology

CANDIDATES FOR THE DEGREE OF BACHELOR OF SCIENCE

Name	Major Field
Arnell, Sandra Reynolds	Business Education
Bailey, Robert Lee	Business Administration
Bass, Mildred Bernice	Elementary Education
Bessellieu, Charles Henry	Elementary Education
Bost, Charles Albert	Health and Physical Education
Bowles, George Leonard, Jr.	Health and Physical Education
Brooks, Dennis Elwood	Music Education
Brown, Watson Foster	Chemistry
Bunting, Robert	Business Administration
Cannon, Barbara Diane	Business Education
Clark, William, Jr.	Elementary Education
Cole, Shirley Ernestine	Secretarial Science
Conway, Donald Purnell	Health and Physical Education
Cora, Ralph Antonio	Health and Physical Education
Dupee, Alver Douglas	Elementary Education
Edmonds, Edgenell	Elementary Education
Evans, Hazel Nadine	Elementary Education
Ferrell, Paul, Jr.	Business Administration
Gamell, David Phillips	Biology
Grayson, Fannie Norcum	Elementary Education
Gunnell, Larry Roscoe	Health and Physical Education
Hanks, Woody	Health and Physical Education
Harmon, Patricia Selena	Elementary Education

Candidates for the Degree of Bachelor of Science (Continued)

Name	Major Field	City and State
Harris, Dorothy Delores	Health and Physical Education	
Henderson, Emma Jean	Business Education	
Hines, Barbara Ward	Home Economics Education	
Holmes, Samuel Frederick	Business Education	
Johnson, Courtney Elizabeth	Music Education	
Jordan, Clarence Howard	Business Administration	
Jordan, Essie Hunt	Business Education	
Jubilee, Leroy Thomas	Agricultural Education	
Lawson, Alphonso	Business Education	
Lewis, James	Biology	
Lingo, Marita Matthews	Health and Physical Education	
McDougal, Gail Patrice	Elementary Education	
Mumford, Ernestine	Business Education	
Nickens, Virginia Lois	Business Education	
Osborne, Frederic Theodore	Elementary Education	
Palmer, Pauline Allen	Health and Physical Education	
Perkins, Terrence Courtney	Health and Physical Education	
Peters, Barbara Spady	Elementary Education	
Pleasant, Loretta Sudler	Elementary Education	
Prator, Flair Ann	Elementary Education	
Price, Dorothy Ruth	Elementary Education	
Rice, Georganna Beamer	Home Economics Education	
Rickards, Ermadine Catherine	Home Economics Education	
Saunders, Barbara Angela	Home Economics Education	
Short, William Alfred	Health and Physical Education	
Singleton, Juanita Lola	Business Education	
Smith, Irene H.	Business Education	
Steward, Martha Townsend	Biology	
Swiggett, Edward	Agricultural Education	
Swiggett, Sandra Danessa	Elementary Education	
Swinton, Nathaniel	Biology	
Terry, Jannie Bennett	Home Economics Education	
Tunnell, Wynell	Business Education	
Turner, Doris Ann	Elementary Education	
Walker, Willie Blease, Jr.	Business Administration	
Wilkins, David	Elementary Education	
Williams, Herman	Health and Physical Education	
Wilson, Raymond Theodore	Mathematics	

SENIORS

Name	Major Field	City and State
Arnell, G. Sandra	Business Education	Dover, Delaware
Arnell, Malcolm	Sociology	Dover, Delaware
Baer, Patricia	Secondary Education	Dover, Delaware

SENIORS (continued)

Name	Major Field	City and State
Bailey, F. Bryan	Secretarial Science	Dover, Delaware
Bailey, Robert	Business Administration	Dover, Delaware
Baine, Joshua	History	Wilmington, Del.
Ballard, Don	History	Wilmington, Del.
Bass, Mildred	Elementary Education	Dover, Delaware
Bell, Austin	Chemistry	Wilmington, Del.
Bender, Paul	English	Greenwood, Del.
Bessellieu, Charles	Elementary Education	Frederica, Del.
Bishop, Clyde	Sociology	Newark, Delaware
Bost, Charles	H. & P. Education	Concord, N. C.
Bowles, George	H. & P. Education	Martinsville, Va.
Brooks, Dennis	Music Education	Wilmington, Del.
Brown, Watson	Chemistry	Wilmington, Del.
Bunting, Robert	Business Administration	Asbury Park, N. J.
Cannon, Alkay	Home Economics	Seaford, Delaware
Cannon, Barbara	Business Education	Seaford, Delaware
Chappel, Luke	Biology	New Haven, Conn.
Cheatham, Maurice	H. & P. Education	Spartanburg, N. C.
Clark, William, Jr.	Elementary Education	Williamstown, N. J.
Cole, Shirley	Secretarial Science	Wilmington, Delaware
Congo, Ernest	Business Education	Newark, Delaware
Conway, Donald	H. & P. Education	Washington, D. C.
Cora, Ralph	H. & P. Education	New York, N. Y.
Davis, Bruce	Sociology	Clinton, Maryland
Davis, James	English	Milford, Delaware
Dicks, Patricia	Sociology	Brooklyn, New York
Dillard, Hestene	Elementary Education	New Castle, Delaware
Dupee, Alver	Elementary Education	Fieldale, Virginia
Edmonds, Edgenell	Elementary Education	Dover, Delaware
Evans, Hazel	Elementary Education	Farmingdale, N. J.
Ferguson, Diana	Music Education	Wilmington, Del.
Ferrell, Paul	Business Administration	New York, N. Y.
Francis, Leola	Chemistry	Cape May Court House, N. J.
Gamell, David	Biology	Wilmington, Delaware
Garrison, Esther	Business Education	Selbyville, Delaware
Gooss, Carol	Elementary Education	Dover, Delaware
Grayson, Fannie	Elementary Education	Dover, Delaware
Griffin, Zella	English	Burton, S. C.
Gunnell, Larry	H. & P. Education	Hightstown, N. J.
Hanks, Woody	H. & P. Education	New York, New York
Harley, Gwendolyn	Sociology	Wilmington, Delaware
Harmon, Patricia	Elementary Education	Marshallton, Delaware
Harris, Dorothy	H. & P. Education	Wilmington, Delaware
Hayward, Woodrow	History	Brooklyn, New York
Henderson, Emma	Business Education	Bronx, New York

SENIORS (continued)

Name	Major Field	City and State
Henry, Charles	History	Georgetown, Delaware
Hines, Barbara	Home Economics Education	Kenton, Delaware
Hogsten, James	H. & P. Education	Felton, Delaware
Holland, Vincent	Sociology	Wilmington, Delaware
Holmes, Samuel	Business Education	Woodstown, N. J.
Holt, Wardell	H. & P. Education	Willow Grove, Pa.
Jackson, Marilyn	Elementary Education	Wilmington, Delaware
Johnson, Courtney	Music Education	Brandywine, Maryland
Johnson, Frances	Home Economics Education	Seaford, Delaware
Johnson, Harold	H. & P. Education	Richmond, Virginia
Johnson, Margaret L.	Sociology	Imlaystown, N. J.
Jordan, Clarence	Business Administration	Chester, Pa.
Jordan, Essie H.	Business Education	Philadelphia, Pa.
Jubilee, Leroy	Agricultural Education	Millsboro, Delaware
Lawson, Alphonso	Business Education	Washington, D. C.
Lewis, James	Biology	Philadelphia, Pa.
Lingo, Marita	H. & P. Education	Dover, Delaware
Livingston, Roland	History	Wilmington, Delaware
McDougal, Gail	Elementary Education	Dover, Delaware
Marsh, William	History	Smyrna, Delaware
Morris, Charlotte	Home Economics	Nassau, Delaware
Mosley, Laura	Biology	Birmingham, Alabama
Moyer, Charles	History	Dover, Delaware
Mumford, Ernestine	Business Education	Selbyville, Delaware
Nickens, Virginia	Business Education	Laurel, Maryland
Nutter, Harvey	Elementary Education	Philadelphia, Pa.
Osborne, Frederic	Elementary Education	New Haven, Conn.
Palmer, Pauline	H. & P. Education	Philadelphia, Pa.
Perkins, Terrence	H. & P. Education	Seaford, Delaware
Perry, Celestine	Sociology	Washington, D. C.
Peters, Barbara	Elementary Education	Selbyville, Delaware
Pleasant, Loretta S.	Elementary Education	East Orange, N. J.
Postley, Douglas	H. & P. Education	Philadelphia, Pa.
Prator, Flair	Elementary Education	Vineland, New Jersey
Price, Dorothy	Elementary Education	Wilmington, Delaware
Ransom, Sallye	Home Economics	Rehoboth, Delaware
Rice, Georganna	Home Economics Education	Milford, Delaware
Rickards, Ermadine	Home Economics Education	Greenwood, Del.
Riley, Joyce	Elementary Education	Smyrna, Delaware
Ryder, Sylvia	Business Education	Dover, Delaware
Saunders, Barbara	Home Economics Education	Mt. Vernon, N. Y.
Scott, John	History	Georgetown, Delaware
Short, William	H. & P. Education	Wilmington, Delaware
Singleton, Juanita	Business Education	Chester, Pennsylvania
Smith, Irene	Business Education	Monroeville, New Jersey

SENIORS (continued)

Name	Major Field	City and State
Smith, Joseph	History	Wilmington, Delaware
Stephens, Joseph	Elementary Education	Dover, Delaware
Steward, Martha	Biology	Harrington, Delaware
Stewart, Granville	Elementary Education	Lewes, Delaware
Still, William	Sociology	Camden, New Jersey
Swiggett, Edward	Agricultural Education	Smyrna, Delaware
Swiggett, Sandra	Elementary Education	Smyrna, Delaware
Swinton, Nathaniel	Biology	Charleston, S. C.
Taylor, Pauline	Elementary Education	Dover, Delaware
Terry, Jannie B.	Home Economics Education	Dorchester, Mass.
Tunnell, Wynell	Business Education	Nassau, Delaware
Turner, Doris	Elementary Education	Wilmington, Del.
Walker, Willie	Business Administration	Wilmington, Del.
Waters, Effie	Sociology	Middletown, Del.
West, Bernice	Elementary Education	Laurel, Delaware
White, Charles	Biology	Dover, Delaware
White, Melva	Elementary Education	Berlin, Maryland
Wilkins, David	Elementary Education	Elizabeth, N. J.
Williams, Herman	H. & P. Education	Wilmington, Del.
Wilson, James	Agricultural Education	Smyrna, Delaware
Wilson, Raymond	Mathematics	Wilmington, Del.
Wylie, Samuel	Elementary Education	Milford, Delaware

JUNIORS

Name	Major Field	City and State
Anderson, Linda	Sociology	Wilmington, Delaware
Anderson, Sylvester	History	Wilmington, Delaware
Atkinson, Edward	Music Education	Philadelphia, Pa.
Avent, Marva	Music Education	Glassboro, New Jersey
Banks, Jacqueline	Elementary Education	Bridgeville, Delaware
Batten, Ira	Sociology	Norristown, Pa.
Bell, Charles	H. & P. Education	Laurel, Delaware
Berry, John	Sociology	Bridgeton, New Jersey
Betancourt, Michael	Mathematics	New York, New York
Bivins, Marva	History	Aliquippa, Pa.
Blakey, Brenda	H. & P. Education	Washington, D. C.
Blanchard, John	History	Wilmington, Delaware
Bratten, Bertha	Biology	Frankford, Delaware
Brown, Sandra	H. & P. Education	Wilmington, Delaware
Brummell, Louis	H. & P. Education	Bridgeville, Delaware
Bryan, Frances	Elementary Education	Wilmington, Delaware
Burton, Andrew	Elementary Education	Wilmington, Delaware
Butts, Donald	Elementary Education	Bridgeton, New Jersey

JUNIORS (continued)

Name	Major Field	City and State
Byrd, Calvin	Sociology	Wilmington, Delaware
Chandler, Margaret	Business Education	Townsend, Delaware
Cheeks, Mary	Elementary Education	Winston-Salem, N. C.
Cirwithian, Delores	Elementary Education	Milton, Delaware
Clark, Darryl	Sociology	Buffalo, New York
Clark, Dianne	Elementary Education	Camden, New Jersey
Coleman, James	History	Harrington, Delaware
Collins, Alfred	Sociology	Princess Anne, Md.
Conaway, Ernest	H. & P. Education	Millsboro, Delaware
Cooper, Newell	History	Redbank, New Jersey
Daniels, Roland	H. & P. Education	Dover, Delaware
Dixon, Randell, Jr.	Biology	Atlanta, Georgia
Dorman, Granville	Biology	Seaford, Delaware
Douglas, Julia	Business Education	Philadelphia, Pa.
Drayton, Betty	Elementary Education	Bridgeville, Del.
Drayton, Carey	Agriculture	Bridgeville, Del.
Drew, Martin	English	Frankford, Delaware
Dupee, Leroy	Mathematics	Fieldale, Virginia
Faulkner, Gene	H. & P. Education	Winston-Salem, N. C.
Fitchett, Rose	Elementary Education	Dover, Delaware
Fooks, Jo Ann	H. & P. Education	Philadelphia, Pa.
France, James	Mathematics	Richmond, Virginia
Francis, Barbara	Elementary Education	Wilmington, Delaware
Freeman, Thomas	Business Administration	Dover, Delaware
Flyzik, Paul	Accounting	Dover, Delaware
Gaines, Delores	English	Cherry Hill, N. J.
Gaines, Regina	H. & P. Education	Columbia, Delaware
Gardner, Nancy	History and Political Science	Dover, Delaware
Godfrey, William	English	Charleston, S. C.
Golden, Carolyn	Sociology	Wilmington, Delaware
Goldsborough, Carolyn	Physical Education	Dover, Delaware
Grays, Yvonne H.	Business Education	Milton, Delaware
Hamilton, Howard	Mathematics	East Orange, N. J.
Hammitt, Sarah	Business Education	Miami, Florida
Harmon, Flossie	Elementary Education	Ellendale, Delaware
Harmon, Waymon	Agriculture	Rehoboth, Delaware
Harris, Robert	Elementary Education	East Orange, N. J.
Harris, Ronald	Business Administration	Elkins Park, Pa.
Hartman, James	Economics	Dover, Delaware
Holloway, Robert	Music Education	Wilmington, Del.
Hopkins, John	Business Administration	Wilmington, Del.
Jackson, Bruce	Mathematics	Millsboro, Delaware
Jackson, Joseph	Music Education	Dover, Delaware
Jacobs, Walter	Sociology	Langhorne, Pa.
Jenkins, Ann	Business Education	Newark, New Jersey

JUNIORS (continued)

Name	Major Field	City and State
Johnson, Lola	Home Economics Education	Wilmington, Del.
Johnson, Rayford	Med. Alld. Physical Educ.	Trenton, New Jersey
Johnson, Stanley	H. & P. Education	Norristown, Pa.
Johnson, Thomas	Elementary Education	Winston-Salem, N. C.
Johnson, Wilbur	Sociology	Elizabeth, N. J.
Jones, Alvah	Elementary Education	Willow Grove, Pa.
Kellam, Albert	Biology	Millsboro, Delaware
Kennedy, James	Business Administration	Coatesville, Pa.
Land, John	H. & P. Education	Bronx, New York
Lee, Martin	Elementary Education	Willow Grove, Pa.
Lett, Carleton	Biology	Wilmington, Del.
Lewis, Nancy	Elementary Education	Dover, Delaware
Loper, Marie	Elementary Education	Lincoln, Delaware
Marshall, David	Business Administration	Wilmington, Del.
Matthews, Norman	Business Administration	Seaford, Delaware
Maynard, Tina	H. & P. Education	Newark, New Jersey
McKenna, Edward	Business Administration	Dover, Delaware
McKibbins, Bobby	H. & P. Education	Philadelphia, Pa.
Michael, Zella	H. & P. Education	Philadelphia, Pa.
Miffin, Kenneth	History	Georgetown, Delaware
Miller, Nathaniel	Mathematics	Winston-Salem, N. C.
Mitchell, Ida	Home Economics Education	Newark, N. J.
Montgomery, Chester	Mathematics	Greeneville, Tenn.
Montgomery, Mary	Business Education	Cambridge, Maryland
Moore, William	Business Administration	Wilmington, Del.
Morris, Freddie	Elementary Education	Laurel, Delaware
Mosley, Hilda	Business Education	Dover, Delaware
Murchison, Eloise	Business Education	Philadelphia, Pa.
Murray, Pearl	Business Education	Charleston, S. C.
Nicholas, Juanita	History	Philadelphia, Pa.
Parker, Elizabeth	Business Education	Wilmington, Delaware
Poole, Albert	Mathematics	Lincoln, Delaware
Prettyman, John	Business Administration	Milton, Delaware
Price, James	Sociology	Wilmington, Delaware
Pritchett, Forrest	Sociology	Atlantic City, N. J.
Pritchett, Maurice	Elementary Education	Wilmington, Delaware
Pritchett, Roberta	Business Education	New Castle, Delaware
Ragin, Angela	H. & P. Education	Philadelphia, Pa.
Reed, Jean	Business Education	Baltimore, Md.
Ridgeway, Don	Business Administration	Wilmington, Del.
Robinson, Gloria (Mrs.)	Elementary Education	Dover, Delaware
Robinson, Leonia	Elementary Education	Lewes, Delaware
Sammons, Ferne	Elementary Education	Lewes, Delaware
Sauls, Rosa	Business Education	Milford, Delaware
Saunders, Anita	Elementary Education	Washington, D. C.

JUNIORS (continued)

Name	Major Field	City and State
Saunders, Charles	Biology	Philadelphia, Pa.
Scott, Maggie	Elementary Education	Lincoln, Delaware
Shands, William	Business Administration	Dinwiddie, Va.
Smith, Clauszell	Mathematics	Ridgeway, Virginia
Smith, George	Sociology	Dover, Delaware
Smith, Idell	Elementary Education	Dover, Delaware
Smith, Janice	Elementary Education	Newark, New Jersey
Smith, Missouri	Elementary Education	Salem, New Jersey
Smith, Patricia	History	Florence, N. J.
Spurlock, Robert	History	Wilmington, Del.
Stargell, Marva	English	Rahway, New Jersey
Stillwell, Sandy	H. & P. Education	Boston, Mass.
Street, Richard	History	Millsboro, Delaware
Strong, Jimmie	H. & P. Education	Atlanta, Georgia
Swiggett, Gloria	Home Economics	Smyrna, Delaware
Taliaferro, Muriel	Elementary Education	Wilmington, Del.
Tate, Phyllis	Elementary Education	Wilmington, Del.
Taylor, Edward	H. & P. Education	Millsboro, Delaware
Van Sparrentak, Norman	Business Administration	Dover, Delaware
Wait, Patricia	English	Dover, Delaware
Walker, Clarence	English	Atlantic City, N. J.
Walker, Earl	Elementary Education	Middletown, Delaware
Walker, Terry	English	Dover, Delaware
Ward, John	Business Administration	Dover, Delaware
Webb, Marlane	Business Education	Dover, Delaware
Webster, Thomas	Accounting	Wilmington, Delaware
West, James	Elementary Education	Laurel, Delaware
West, Shirley	Elementary Education	Laurel, Delaware
White, Albert	H. & P. Education	New York, New York
White, Lester C.	History	Camden, New Jersey
Wilkerson, Betty	Business Administration	Wilmington, Del.
Williams, Albert	Elementary Education	Trenton, New Jersey
Williams, Annelle	H. & P. Education	Dorchester, Mass.
Wilson, John	Biology	Dover, Delaware
Woods, Sylvia	Sociology	Dover, Delaware
Woolford, Sylvester	Business Administration	New Castle, Delaware
Wright, Donald	Sociology	Medford, Mass.
Wright, Gordon	Business Administration	Roosevelt, New York
Young, Eva L.	Elementary Education	Lincoln, Delaware
Zaback, Charlotte	English	Dover, Delaware

SOPHOMORES

Name	Major Field	City and State
Allen, Darlene	Elementary Education	Cornwall, Pa.
Alston, Betty	Chemistry	Seaford, Delaware
Andrews, Janet	Elementary Education	Philadelphia, Pa.
Austin, Clarence	Agriculture	Horntown, Va.
Bagwell, Mazie	Elementary Education	Wilmington, Del.
Bailey, Claude	Business Administration	Wilmington, Del.
Bailey, Richard	Chemistry	Philadelphia, Pa.
Baker, Robert	Secondary Education	Levittown, N. Y.
Barnes, Arthur	History	Capeville, Va.
Bethel, Shereatha	Business Education	Dover, Delaware
Blackmon, Elbert	Business Administration	Jersey City, N. J.
Boardley, Grace	Elementary Education	Wilmington, Del.
Braxton, Mary	Elementary Education	Woodstown, N. J.
Brewer, Alice	Elementary Education	Dover, Delaware
Brewton, Bernard	Business Administration	New Rochelle, N. Y.
Brown, Alan	Business Administration	Wilmington, Del.
Brown, Donald	Mathematics	Salem, New Jersey
Brown, William	Sociology	Camden, New Jersey
Bryan, Gloria	Elementary Education	Hightstown, N. J.
Bryan, James	Mathematics	Dover, Delaware
Burton, Randall	Accounting	Wilmington, Del.
Bushnell, Diana	Elementary Education	Dover, Delaware
Butcher, William	Business Administration	Wilmington, Del.
Cannon, Eugene	English	Wilmington, Del.
Carlos, Ronald	Sociology	New York, N. Y.
Carter, Charles	Biology	Dover, Delaware
Cherry, Thomas	P.Ed. Med. Aid.	New York, N. Y.
Clark, Joan	Business Education	Milford, Delaware
Collins, Elliott	History	Wilmington, Del.
Coverdale, Marilee	Elementary Education	Greenwood Delaware
Crowell, James	Physical Education	Trenton, N. J.
Daniels, Jeff	History	Dover, Delaware
Devine, Roberta	Elementary Education	Philadelphia, Pa.
Dewey, Fred	Elementary Education	Dover, Delaware
Dixon, Sharon	Business Education	Chester, Pa.
Dorman, Oliver	Mathematics	Seaford, Delaware
Dorsett, Charles	History	Port Jefferson, N. Y.
Dorsey, John	Elementary Education	Wilmington, Del.
Draine, William	Sociology	Millsboro, Delaware
Duvall, Patricia	Elementary Education	Dover, Delaware
Earl, N. Clarkson	H. & P. Education	Dover, Delaware
Eason, Shirley	Music Education	Camden, New Jersey
Edmunds, Robert	Mathematics	Dover, Delaware
Elzie, Mary	Elementary Education	Dover, Delaware
Engrum, Jarrett	Elementary Education	Houston, Texas

SOPHOMORES (continued)

Name	Major Field	City and State
Fitchett, Carolyn	Elementary Education	Cape Charles, Va.
Freeman, Delores	Elementary Education	Wyoming, Delaware
Frisby, Ronald	History	Bridgeville, Del.
Gaines, Bertha	Mathematics	Laurel, Delaware
Gaines, Donald	History	Seaford, Delaware
Gaither, Albert	Elementary Education	Wilmington, Del.
Gilfillian, Basil	H. & P. Education	Wilmington, Del.
Gipson, Richard	Chemistry	Cranford, New Jersey
Gist, Dorothy	Mathematics	Wilmington, Del.
Graham, Eddie	Business Administration	Conshohocken, Pa.
Grandison, Charles	Elementary Education	Wilmington, Del.
Hall, Joyce	Elementary Education	Clarksville, Del.
Harley, Sandra	Biology	Wilmington, Del.
Harmon, Jeraldine	Sociology	Millsboro, Del.
Harris, Kathryn	Elementary Education	Milford, Del.
Harris, Mabel	Music Education	Woodstown, N. J.
Harris, Thomas	Accounting	Wilmington, Del.
Heath, Nancy	Home Economics	Greenwood, Del.
Henderson, James	History	Media, Pa.
Henderson, Nina	Home Economics Education	Bronx, New York
Henry, Calvin	Elementary Education	Townsend, Del.
Henry, Patricia	Elementary Education	Salem, New Jersey
Hill, Sharon	Elementary Education	Wilmington, Del.
Hitchcock, Jere	Chemistry	Dover, Delaware
Holland, James	Sociology	Wilmington, Del.
Holmes, Carl	Business Administration	Willow Grove, Pa.
Hopkins, Anna	Elementary Education	Bridgeville, Del.
Hough, Nathan	Accounting	Hickory, N. C.
Hunter, Samuel	Agriculture	Newark, N. J.
Hyland, Evelyn	Biology	Wilmington, Del.
Ivy, Melvyn	Accounting	Washington, D. C.
Jackson, Carolyn	History	Bridgeton, N. J.
Jackson, James	Accounting	Philadelphia, Pa.
Jackson, Thomas	Chemistry	Jamaica, New York
James, Edward	Business Administration	Rosenhayn, N. J.
Jenkins, Thomas	Biology	Wilmington, Del.
Jones, Brenda	Home Economics	Wilmington, Del.
Jones, Robert Lawrence	Business Administration	Wilmington, Del.
Jones, Veronica	Elementary Education	Camden, N. J.
Kent, Charles	Elementary Education	Wilmington, Del.
Knox, Simmie	Biology	Milford, Del.
Lamb, Patricia	History	Philadelphia, Pa.
Langston, James	Sociology	Lawnside, N. J.
Lingo, Betty	Business Education	Bridgeton, N. J.
Little, Ruth	History	Wilmington, Del.

SOPHOMORES (continued)

Name	Major Field	City and State
Loder, Audrey	Business Education	Dover, Delaware
Martin, Wrentie	History & Political Science	Canton, Ohio
Maull, Otelia	Elementary Education	Lewes, Delaware
Mbote, Samuel	Business Administration	Thika, Kenya
McCants, Janice	Sociology	Wilmington, Del.
McCray, Robert	Elementary Education	Frankford, Del.
Melton, Lawrence	Business Education	Wilmington, Del.
Middlebrooks, Diane	Business Administration	Wilmington, Del.
Miles, Maynard	English	Wilmington, Del.
Miles, James	History	Trenton, N. J.
Miller, Sherman	Mathematics	Wilmington, Del.
Mills, Sandra	Sociology	Corona, New York
Moody, George	Elementary Education	Wilmington, Del.
Mullett, Ernest	English	Greenwood, Del.
Oates, Sue	Sociology	Wilmington, Del.
Ochieng, Stevens	History	Kissi, Kenya
Orr, James	Business Administration	Wilmington, Del.
Parker, Wayne	H. & P. Education	Woodbury, N. J.
Peoples, Ellis	Mathematics	Wilmington, Del.
Pinckney, Robert	Physical Education	Inwood, L.I., N. Y.
Pinkston, William	Business Administration	Wilmington, Del.
Poole, Wanza	H. & P. Education	Philadelphia, Pa.
Pritchett, Josephine	Elementary Education	Millsboro, Del.
Ransom, Emma	Elementary Education	Hartford, Conn.
Reckling, Ralph	Biology	Baltimore, Md.
Richardson, Patricia	Sociology	Charleston, S. C.
Riley, Reba	Biology	Selbyville, Del.
Robinson, Gary	Sociology	Camden, N. J.
Robinson, Gloria	Elementary Education	Dover, Delaware
Robinson, Marchita	Biology	Atlantic City, N. J.
Robinson, William	Elementary Education	Dover, Delaware
Roselle, William	History	Philadelphia, Pa.
Rue, Albert	H. & P. Education	Boston, Mass.
Russ, Diana	Mathematics	Wilmington, Delaware
Samuels, Robert	English	Wilmington, Delaware
Satterwhite, Elaine	Business Education	Marydel, Delaware
Saulsbury, Sylvia	Business Education	Camden, Delaware
Sembly, Francis	History	Washington, D. C.
Shelton, Sherita	Sociology	Millsboro, Del.
Sheppard, Albert	Psychology	Wilmington, Del.
Singleton, Clayton	Physical Education	Cambridge, Mass.
Slaughter, Edward	Biology	Wilmington, Delaware
Smith, Alice	Sociology	Dover, Delaware
Speaks, Nathaniel	H. & P. Education	Frankford, Delaware
Spivey, Kirby	Physical Education	Mizpah, New Jersey

SOPHOMORES (continued)

Name	Major Field	City and State
Spurlock, Ronald	History	Wilmington, Delaware
Stallings, Joyce	Elementary Education	Wilmington, Delaware
Stevens, Lafayette	Chemistry	Capeville, Virginia
Stewart, Roland	History	Philadelphia, Pa.
Taylor, Jerome	History	Philadelphia, Pa.
Taylor, John	Physical Education	Millsboro, Delaware
Taylor, Rosa	Elementary Education	Bridgeville, Del.
Terry, John	H. & P. Education	Winston-Salem, N. C.
Thomas, Donald	Business Administration	Wilmington, Del.
Thompson, James	Business Administration	Wenonah, N. J.
Turner, Lamar	Elementary Education	Chester, Pa.
Vogt, Richard	Accounting	Dover, Delaware
Walker, Virginia	Elementary Education	Middletown, Delaware
Washam, Grace	Music Education	Chester, Pa.
Washington, Albert	Sociology	Levittown, N. J.
Washington, Esther	Business Education	Wilmington, Del.
Watson, Dorris	Elementary Education	Camden, N. J.
Webb, Noah	H. & P. Education	Laurel, Delaware
Weeks, Samuel	History	Seaview, Virginia
Welfare, Barbara	Elementary Education	New Haven, Conn.
Wharton, David	Business Education	Wilmington, Del.
White, Sidney	Chemistry	Milford, Delaware
Williams, Jo Ann	Elementary Education	Northeast, Md.
Williams, Robert L.	History	Wilmington, Del.
Wilson, Clifford	H. & P. Education	Chester, Pa.
Wright, Sherid	Business Education	Wilmington, Del.
Young, Berlin	Elementary Education	Milton, Delaware
Young, Robert	Mathematics	Lincoln, Delaware
Young, Theodore	History	Milton, Delaware

FRESHMEN

Name	Major Field	City and State
Adams, Norman	Sociology	Baltimore, Maryland
Allen, Mayola	Biology	Millsboro, Delaware
Allen, Sondra	Elementary Education	Atlantic City, N. J.
Allison, Juanita	Elementary Education	Philadelphia, Pa.
Alston, Robert	Agriculture	Philadelphia, Pa.
Ames, Tony	Elementary Education	Lewes, Delaware
Anthony, Janice	Business Education	Philadelphia, Pa.
Armstrong, Von	History	Philadelphia, Pa.
Asbury, Emily	Business Education	Darby, Pa.
Bagwell, Clarence	Physical Education	Camden, New Jersey
Bailey, Brenda	Elementary Education	Wardtown, Virginia

FRESHMEN (continued)

Name	Major Field	City and State
Barber, John	Business Administration	Philadelphia, Pa.
Barnes, Lucille	Business Education	Seaford, Delaware
Barton, William	History	Atlantic City, N. J.
Belford, Tyrone	History	Palmyra, New Jersey
Benson, Bob	Economics	Newark, N. J.
Berry, Herbert	Physical Education	Trevoze, Pa.
Betner, Doris	Business Education	Philadelphia, Pa.
Blake, Albert	Physics	Bridgeville, Del.
Blake, Gloria	Sociology	Atlantic City, N. J.
Bland, Vernon	Business Administration	Wilmington, Del.
Bolden, Claudia	Elementary Education	Wilmington, Del.
Bowman, Melvin	Biology	Philadelphia, Pa.
Boyd, Grover	Physics	Bridgeville, Del.
Braxton, Marcia	Economics	Wilmington, Del.
Brown, Clarence	Business Administration	Trenton, N. J.
Brown, James	Business Education	Petersburg, Virginia
Brown, Odessa	Business Education	Atlantic, Virginia
Brown, Rhoda	Chemistry	Philadelphia, Pa.
Brown, Saul	Elementary Education	Bridgeton, New Jersey
Bryant, Delores	Business Education	Wilmington, Delaware
Bryant, Doris	Elementary Education	Dover, Delaware
Burbage, Ellene	Business Education	Bridgeville, Delaware
Burke, Patricia	English	Wilmington, Delaware
Burton, Henry	Elementary Education	Wilmington, Delaware
Burton, William	Elementary Education	Philadelphia, Pa.
Cale, Henry	Elementary Education	Odessa, Delaware
Calloway, Carole	Business Education	Wilmington, Delaware
Campbell, Arthur	H. & P. Education	Wilmington, Delaware
Campbell, Julius	Sociology	Trenton, New Jersey
Cannon, Isaac	Agricultural Education	Bridgeville, Delaware
Cardwell, Cossandra	Secretarial Science	Wilmington, Delaware
Carrington, Richard	Sociology	Philadelphia, Pa.
Carter, Anna	Elementary Education	Frankford, Delaware
Carter, Sandra	Elementary Education	Wilmington, Delaware
Cephas, Lloyd	History	Dover, Delaware
Chandler, Franklin	Physical Education	Townsend, Delaware
Chase, Harvey	Sociology	Cordova, Maryland
Chippie, John	Social Science	Cheswold, Delaware
Clark, Mary	Biology	Chester, Pennsylvania
Coleman, Ellsworth	H. & P. Education	Greenwood, Delaware
Collins, Joseph	Physics	Milton, Delaware
Collins, Louvenia	Mathematics	Houston, Delaware
Conaway, Charles	Agriculture	Milton, Delaware
Copes, Leonard	Elementary Education	Auburn, New York
Corsey, Bernadette	Business Education	Wenonah, New Jersey

FRESHMEN (continued)

Name	Major Field	City and State
Coverdale, George	Physical Education	Philadelphia, Pa.
Cox, Ronald	Business Administration	Smyrna, Delaware
Craig, Carol	Elementary Education	Philadelphia, Pa.
Crapper, Randolph	Music Education	Lincoln, Delaware
Curtis, Marshall	Music Education	Wilmington, Delaware
Daniels, Eugene	Business Education	Wilmington, Delaware
DaSilva, Emilio	History & Political Science	Lawrence, Mass.
Davis, Michael	Business Education	Wilmington, Del.
Davis, Mildred	Sociology	Newark, Delaware
Dawson, Robert	Elementary Education	Bronx, New York
Dixon, Michael	H. & P. Education	Jamesburg, N. J.
Dorsey, Brian	Accounting	Philadelphia, Pa.
Drummond, Doris	Physical Education	Accomac, Virginia
Dukes, Ruby	Mathematics	Lincoln, Delaware
Durham, Joyce	Business Education	Dover, Delaware
Dye, Darrell	Accounting	Middletown, Delaware
Dye, Phillip	Chemistry	Middletown, Delaware
Edomy, Alexander	History	Wilmington, Delaware
Edwards, Henry	Physical Education	Inwood, New York
Elder, Duncan	Business Administration	Cambridge, Md.
Ervin, Phyllis	Elementary Education	Brandywine, Md.
Fagin, Beverly		Washington, D. C.
Faison, Carolyn	History	Richmond, Virginia
Faison, John	Biology	Philadelphia, Pa.
Faulkner, Walter	Business Education	Wilmington, Del.
Ferrell, Judy	Sociology	New York, N. Y.
Fisher, George	Business Administration	Denton, Maryland
Flowers, Jerry	Secondary Education	Wilmington, Delaware
Fountain, Dolores	Business Education	Milford, Delaware
Frazier, Talmadge	Sociology	Plainfield, N. J.
Frazier, Tyrone	Business Administration	Washington, D. C.
Gabbadon, Cassilda	Sociology	Philadelphia, Pa.
Gaines, Bruce	Physical Education	Seaford, Delaware
Garrison, Carol	Elementary Education	New York, New York
Garth, Jary	Business Administration	New York, New York
Gaskins, George	Secondary Education	Willow Grove, Pa.
Gibson, William	Chemistry	Miami, Florida
Gilbert, John	Agriculture	Washington, D. C.
Glover, David	Business Administration	Wilmington, Delaware
Goodwin, Raymond	Business Education	Moorestown, N. J.
Gray, Beverly	Physical Education	Philadelphia, Pa.
Gray, Gary	Elementary Education	Trenton, N. J.
Green, Geneva	Elementary Education	Cleveland, Ohio
Grier, Clayton	Physical Education	Philadelphia, Pa.
Griffin, Michael	Sociology	Dover, Delaware

FRESHMEN (continued)

Name	Major Field	City and State
Grose, Kenneth	History	Philadelphia, Pa.
Guy, Hilda	Elementary Education	Wilmington, Del.
Hale, Kenneth	Sociology	New York, N. Y.
Hall, Charles	Elementary Education	Wilmington, Del.
Hall, Vivian	Elementary Education	Clarksville, Del.
Handy, Charles	Elementary Education	Selbyville, Del.
Harley, Earl	Chemistry	Lewes, Delaware
Harmon, Frances	Elementary Education	Milford, Delaware
Harris, Patricia	Elementary Education	Harrington, Del.
Harris, Sylvester	Business Administration	Richmond Hts., Fla.
Harry, Walter	Chemistry	Elizabeth, N. J.
Harvey, Gwendolyn	Elementary Education	Neptune, N. J.
Haynes, Wilfred	Physical Education	New Orleans, La.
Heath, Hattie	Chemistry	Greenwood, Delaware
Heath, Joseph	Music Education	Greenwood, Delaware
Hebron, Preston	Elementary Education	Wilmington, Del.
Helton, Vivian	Elementary Education	Philadelphia, Pa.
Hilliard, Reva	Sociology	Selbyville, Delaware
Hobbs, Geraldine	Secretarial Science	Philadelphia, Pa.
Hobbs, Ina	Biology	Greenwood, Delaware
Holland, Deanna	Political Science	Wilmington, Delaware
Hollingsworth, Berlin	Business Administration	Dover, Delaware
Holloman, Mary	Home Economics Education	Nassau, Delaware
Homan, Carl	Sociology	Kane, Pennsylvania
Hubbard, Lester	Biology	Camden, New Jersey
Hunt, Geraldine	Business Education	Laurel, Delaware
Hunter, Alonzo	Pre-Med	Pompano, Florida
Hursey, DeEdwin	History	Bridgeton, N. J.
Hyland, Barbara	Elementary Education	Laurel, Delaware
Hyland, Wanda	Business Education	Laurel, Delaware
Ives, Jo Ann	History	Jamesburg, N. J.
Jackson, Isaac	Agriculture	Millsboro, Delaware
Jackson, Linda	H. & P. Education	Philadelphia, Pennsylvania
Jackson, Mary	Elementary Education	Wilmington, Delaware
Jackson, Robert	H. & P. Education	Bridgeville, Delaware
Jackson, Robert Severgson	Accounting	Wilmington, Delaware
Jackson, Robert Stenton	Biology	Atlantic City, N. J.
Jacobs, Juanita	Elementary Education	Monroeville, N. J.
James, H. Grady	Biology	East Orange, N. J.
Jamison, Preston	Sociology	Baltimore, Maryland
Jefferson, Loretha	English	Philadelphia, Pa.
Jefferson, Patricia	Business Education	Painter, Virginia
Jenkins, Barbara	Mathematics	Philadelphia, Pa.

FRESHMEN (continued)

Name	Major Field	City and State
Jenkins, Phyllis	Elementary Education	Philadelphia, Pa.
Johns, Alease	Sociology	Wilmington, Delaware
Johnson, Carolyn	Sociology	Chester, Pa.
Johnson, Clarise	Chemistry	Philadelphia, Pa.
Johnson, Theodore	Accounting	Trenton, New Jersey
Jones, Arlene	Elementary Education	Philadelphia, Pa.
Jones, Judy	Sociology	Philadelphia, Pa.
Jones, Nathaniel	Sociology	Freehold, New Jersey
Jones, Randolph	Agriculture	Bridgeville, Delaware
Jones, Robert Lee	History	Bridgeville, Delaware
Jones, Ronald	Biology	Martinsville, Va.
Jones, Sally	Elementary Education	Millsboro, Delaware
Joy, James	Sociology	Dover, Delaware
Kattes, Michael	History	Chester, Pa.
Kersey, Janice	Sociology	Wilmington, Delaware
King, James	History	Marion, S. C.
Lane, M. Franklin	Accounting	Newark, Delaware
Laster, Miles	History	Bridgeton, N. J.
Laws, Theodore	History & Political Science	Chester, Pa.
Lawson, Floyd	Business Administration	Washington, D. C.
Lawson, Patricia	Elementary Education	Wilmington, Del.
Lee, Donald	Business Administration	Brooklyn, N. Y.
Lee, Ralph	History	Bridgeville, Delaware
Levy, Youram	Business Administration	Greenwood, Del.
Lewis, Lucy	Business Education	Frankford, Delaware
Loper, Paul	Elementary Education	Wilmington, Delaware
Loven, Robert	Physical Education	Philadelphia, Pa.
Maddox, Rose Mary	Secondary Education	Climax, Georgia
Manns, Rae Maria	English	Philadelphia, Pa.
Maples, Joan	Sociology	Montclair, New Jersey
Mascoll, Stephen	Mathematics	Cambridge, Mass.
Maxwell, Claudia	Elementary Education	Sharon Hill, Pa.
Mayer, Franklin	Sociology	Newark, Delaware
Mays, Leola	Elementary Education	Wilmington, Delaware
McCauley, Lloyd	Business Administration	Dover, Delaware
McCullough, Sandra	Biology	Philadelphia, Pa.
McFarland, Janet	Elementary Education	Milford, Delaware
McGuire, Kathleen	Elementary Education	Salem, New Jersey
McKenzie, Ervin	Physics	Dover, Delaware
McKnight, Jacqueline	Home Economics Education	Philadelphia, Pa.
McKnight, Mary	H. & P. Education	Brockton, Mass.
Meade, James	Business Administration	Wilmington, Del.
Miller, Martin	Music Education	Dover, Delaware
Miller, Marva	Business Education	Philadelphia, Pa.
Mitchell, Christopher	Physical Education	Washington, D. C.

FRESHMEN (continued)

Name	Major Field	City and State
Mitchell, Elizabeth	Mathematics	Townsend, Delaware
Mitchell, Janet	Business Education	Chester, Pa.
Molock, Harrison	Music Education	Chester, Pa.
Mondine, Francina	Physical Education	Washington, D. C.
Moody, Constance	Elementary Education	Wilmington, Delaware
Moore, Norman	Business Administration	Richmond, Virginia
Moore, Stephanie	Elementary Education	Baltimore, Maryland
Myers, M. Jeanette	English	Lincoln, Delaware
Nabers, Cornelius	English	Altoona, Pennsylvania
Ndambuki, Bernard	History & Political Science	Machalsos, Kenya
Neal, Norman	Physical Education	Delaware City, Del.
Norwood, Loucious	Sociology	Chester, Pa.
Nottingham, Thomas	History	Machipongo, Va.
Nsubuga, Frederick	Chemistry	Mukono, Uganda
Otina, Elly	Economics	Kisumu, Kenya
Overton, Anthony	Biology	Jamestown, N. Y.
Overton, Priscilla	Home Economics	Jamestown, N. Y.
Palmer, Rowena	H. & P. Education	Philadelphia, Pa.
Perry, Brenda	English	Middletown, Del.
Peters, Doris	Elementary Education	Wilmington, Del.
Peters, Roberta	Sociology	Greenfield, Mass.
Pitts, William	Elementary Education	Dover, Delaware
Powell, Diana	Sociology	Philadelphia, Pa.
Prettyman, Noble	Sociology	Milton, Delaware
Price, Ellen	Elementary Education	Viola, Delaware
Price, Robert	History	Washington, D. C.
Pritchett, Beverly	English	Wilmington, Del.
Pritchett, Janice	Elementary Education	Wilmington, Del.
Quesnel, Harris	Business Administration	Dover, Delaware
Quinn, Marguerite	Business Education	Wilmington, Del.
Randolph, Douglas	Physical Education	Media, Pa.
Randolph, Nancy	Music Education	Ellendale, Del.
Reynolds, Marjorie	Sociology	Wilmington, Del.
Rice, Scott	History & Political Science	Milford, Delaware
Riley, Bernice	Biology	Brooklyn, N. Y.
Riley, Roger	Physical Education	Philadelphia, Pa.
Robbins, Herman	Elementary Education	Wilmington, Del.
Roberts, Deborah	Sociology	Seaford, Delaware
Roberts, James	Biology	Wilmington, Del.
Robinson, Cynthia	Biology	Philadelphia, Pa.
Robinson, Leslie	H. & P. Education	Seneca Falls, N. Y.
Robinson, Maureane	English	Dover, Delaware
Rogers, Hayward	History	Rehoboth, Delaware
Rolsal, Nancy	English	Dover, Delaware
Ross, Beverly	Business Education	Philadelphia, Pa.

FRESHMEN (continued)

Name	Major Field	City and State
Ryder, Charles	Business Administration	Dover, Delaware
Sauls, David	Elementary Education	Milford, Delaware
Saunders, Joseph	Physical Education	Salem, New Jersey
Saunders, Kenneth	Sociology	Asbury Park, N. J.
Saunders, Marlene	Sociology	Wilmington, Del.
Scott, Daniel	Elementary Education	Felton, Delaware
Scott, Delores	English	Wilmington, Del.
Scott, Gregory	Elementary Education	Wilmington, Del.
Selby, Paul	Physics	Laurel, Delaware
Seymore, Tyrone	Elementary Education	Seaford, Del.
Shephard, Charles	H. & P. Education	Atlanta, Georgia
Sheridan, Barbara	English	New Castle, Del.
Shirer, Shirley	Sociology	Philadelphia, Pa.
Showell, Hazel	English	Milford, Delaware
Sims, Bernadette	Elementary Education	Wilmington, Del.
Singleton, Henry	Sociology	Cherry Hill, N. J.
Sizemore, Geraldine	Elementary Education	Philadelphia, Pa.
Skipwith, Thomasonia	Home Economics Education	Philadelphia, Pa.
Slaughter, Mary	Elementary Education	Wilmington, Del.
Smaw, Darryl	Music Education	Philadelphia, Pa.
Smith, Agnes	Sociology	Chester, Pa.
Smith, Evelyn	Sociology	Georgetown, Del.
Smith, Roy	Mathematics	Richmond, Virginia
Snead, Bertha	Elementary Education	Wilmington, Del.
Solomon, Charles	Economics	Boston, Mass.
Sorden, Vinnie	Business Education	Wilmington, Del.
Spellman, Miriam	Home Economics	Ellendale, Del.
Stabb, Lillian	Elementary Education	Dover, Delaware
Staples, Patricia	Elementary Education	Wilmington, Del.
Stephens, Mary	Elementary Education	Milford, Delaware
Sterling, Beldon	Mathematics	Smyrna, Delaware
Stinson, Barbara	Music Education	Chester, Pa.
Sudler, Jean	Business Education	Dover, Delaware
Sudler, Victorine	Biologv	Dover, Delaware
Taylor, Carolyn	Home Economics	Roanoke, Virginia
Taylor, Iris	Sociology	Atlantic City, N. J.
Thomas, Brenda	Elementary Education	Wilmington, Del.
Thomas, Marvin	Sociology	Wilmington, Del.
Thomas, Ronald	Elementary Education	Smyrna, Del.
Thompson, Danta	Sociology	Buena Vista, Va.
Thompson, Maureane	Secretarial Science	Cheyney, Pa.
Thompson, Ronald	Sociology	Wilmington, Del.
Thornton, Thomas	History	New Castle, Del.
Todd, Lulu	Elementary Education	Newark, Delaware
Trott, Peggyann	Physics	Georgetown, Del.

FRESHMEN (continued)

Name	Major Field	City and State
Tucker, John	Elementary Education	Pleasantville, N. J.
Tunnell, Wallace	Elementary Education	Millsboro, Delaware
Umoh, Silvanus	Economics	Ikot Ubo, Nigeria
Vincent, Jennifer	History	Wilmington, Delaware
Voughs, Ronald	Mathematics	Cherry Hill, N. J.
Walker, Elissa	Business Education	Philadelphia, Pa.
Walker, Jimmie	Elementary Education	Wilmington, Del.
Walker, Walter	Sociology	Cleveland, Ohio
Walls, Adriene	Secretarial Science	Brunswick, Maine
Waring, Joan	Sociology	New Castle, Del.
Warren, Katherine	Sociology	Milford, Delaware
Washington, Deloris	English	Philadelphia, Pa.
West, Sandra	Sociology	Baltimore, Md.
White, Bessie	History	Philadelphia, Pa.
White, Lester Ted	Elementary Education	Newark, Delaware
Whitfield, Clara	Elementary Education	Wilmington, Del.
Wiest, Rosemarie	Business Administration	Wyoming, Delaware
Wildridge, Stanley	Mathematics	Middletown, Del.
Williams, Diane	Home Economics Education	Smyrna, Del.
Williams, John	Business Administration	Willow Grove, Pa.
Williams, Joseph	Sociology	Miami, Florida
Williams, Robert B.	History & Political Science	Camden, N. J.
Wilson, Jennifer	Elementary Education	Newark, Delaware
Wilson, Nayada	Sociology	Philadelphia, Pa.
Wiltbank, William	Agriculture	Lewes, Delaware
Womack, Martin	Mathematics	Jamaica, New York
Woods, Jake	Elementary Education	Wilmington, Delaware
Woods, Rita	English	Atlantic City, N. J.
Woolson, Robert	Mathematics	Dover, Delaware
Wright, Jeannette	Elementary Education	Bridgeton, N. J.
Wright, Joyce	Business Education	Dover, Delaware
Wylie, Dewitt	Business Administration	Milford, Delaware
Young, Ada	Sociology	Lincoln, Delaware
Young, Fred	Physical Education	Philadelphia, Pa.

SPECIAL STUDENTS

Name	Major Field	City and State
Barth, Sara	Elementary Education	Dover, Delaware
Blakey, Donald		Hartly, Delaware
Council, Edward		Dover, Delaware
David, Charles		Dover, Delaware
Gamberg, David		Dover, Delaware
Hickock, Richard	Business Administration	Dover, Delaware

SPECIAL STUDENTS (continued)

Name	Major Field	City and State
Hill, William	Biology	Dover, Delaware
Jones, Eugene	Biology	Dover, Delaware
Lofton, Lewis	History & Political Science	Dover, Delaware
McNulty, Christine		Dover, Delaware
Mills, Frank	Chemistry	Dover, Delaware
Morrison, Mable		Dover, Delaware
Simpkins, Joseph	Business Administration	Dover, Delaware
Stark, Alice		Dover, Delaware
Starling, James	Elementary Education	Lincoln, Delaware
Stevens, Richard		Dover, Delaware
Varnado, St. Edward	Business Education	Dover, Delaware
Winfield, Frank	Mathematics	Dover, Delaware
Woods, Sara		Camden, Delaware

EVENING STUDENTS

Name	City and State
Adams, James	Dover, Delaware
Bargo, Betty Lou	Dover, Delaware
Briggs, Peter	Hartly, Delaware
Brown, Martha	Dover, Delaware
Bushnell, Joseph	Dover, Delaware
Collins, James	Millsboro, Delaware
Commodore, Lillie	Chestertown, Md.
Dredde, Albert	Berlin, Maryland
Edwards, Norma	Marydel, Delaware
Ellison, Linda	Hartly, Delaware
Gerald, Willie	Laurel, Delaware
Griffin, Sarah J.	Dover, Delaware
Hackshaw, Peggy	Rockhall, Md.
Harris, Reynolds	Felton, Delaware
Harrison, Rachel	Dover, Delaware
Hitchens, Lorraine	Laurel, Delaware
Hyland, Doris	Dover, Delaware
Jennings, Robert	Milwaukee, Wisc.
Massey, Elizabeth	Dover, Delaware
Matthews, George	Greenwood, Del.
Myers, Martha	Laurel, Delaware
Roberts, Sharon	Dover, Delaware
Scheibelhoffer, Kathy	Dover, Delaware
Smith, Maria	Dover, Delaware
Sturgill, Lois	Camden, Delaware
Taylor, Tossie	Dover, Delaware
Watson, Elwood	Houston, Delaware
Winchester, Kathryn	Georgetown, Del.

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