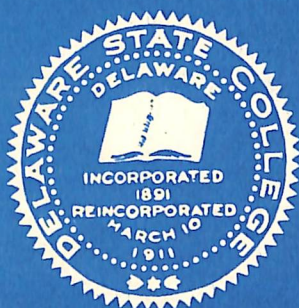


DELAWARE STATE COLLEGE

DOVER, DELAWARE



Bulletin 1968-1969

With a Record of the
Seventy-Sixth Session 1967-1968

DELAWARE STATE COLLEGE

Bulletin

1968-69

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.

ACADEMIC CALENDAR

1968 - 1969

FIRST SEMESTER

September 4-6, 9-11 (Wed.-Fri., Mon.-Wed.)	Freshman Orientation
September 5 (Thursday)	Faculty Institute
September 9-11 (Mon.-Wed.)	Pre-Registration
September 12, 13 (Thurs.-Fri.)	Registration
September 16 (Monday)	Class Instruction Begins Late Registration Begins
September 23 (Mon.)	Last Day of Late Registration and Program Changes
October 19 (Sat.)	Homecoming
October 27 (Sun.)	Parents' Day
November 5 (Tues.)	Election Day
November 28-December 1 (Inclusive)	Thanksgiving Recess
December 2 (Mon.)	Classes Begin at 8:00 A.M.
December 20-January 5 (Inclusive)	Christmas Recess
January 6 (Monday)	Classes Begin at 8:00 A.M.
January 20-24 (Mon.-Fri.)	First Semester Examinations

SECOND SEMESTER

January 27-31 (Mon.-Fri.)	Freshman Orientation
January 29-31 (Wed.-Fri.)	Pre-Registration
February 3, 4 (Mon.-Tues.)	Registration
February 5 (Wed.)	Class Instruction Begins Late Registration Begins
February 9 (Sun.)	Founders' Day
February 11 (Tuesday)	Last Day of Late Registration and Program Changes
April 4-7 (Inclusive)	Spring Recess
April 8 (Tues.)	Classes Begin at 8:00 A.M.
May 3 (Sat.)	Sophomore - Senior Examinations
May 19-22 (Mon.-Thurs.)	Senior Final Examinations
May 23, 26-29 (Fri., Mon.-Thurs.)	Second Semester Examinations
May 30 (Fri.)	Memorial Day
May 31 (Sat.)	Alumni Day
June 1 (Sun.)	Baccalaureate
June 2 (Mon.)	Commencement

HISTORY

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

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

COLLEGE'S PHILOSOPHY OF EDUCATION

"Only the educated are free." Epictetus

Delaware State College is a group of scholars actively seeking the truth, creatively teaching the truth, and carefully preserving the truth. The College claims the right—without restraint—to investigate the whole province of knowledge. With this freedom the College accepts the responsibility of communicating knowledge to all who can make good use of it. Accordingly, the College acknowledges that teaching is of primary importance.

The College is committed—first and foremost—to intellectual excellence. It is, therefore, the acknowledged obligation of the College to provide an academic environment which develops the life of the mind and fosters free inquiry and exchange of ideas. Classrooms, residence halls, dining halls, athletic fields: teachers and staff; cultural activities; the unorganized as well as the organized activities of the campus: all of these are viewed as positive influences by means of which students are educated. Indeed, the College believes that education takes place through the activities of the student himself.

Delaware State College enthusiastically accepts the challenge of the Future. Its resources, both physical and human, are dedicated to the education and enlightenment of man.

AIMS AND OBJECTIVES OF THE COLLEGE

- (1) "to develop
 - (1a) ... students as individuals.
 - (1b) ... inquiring minds—conceptual thinking.
 - (1c) ... skills in communications, both oral and written.
 - (1d) ... understanding of American culture in relation to other cultures.
- (2) "to provide
 - (2a) ... broad general education, with concentration in some field of particular interest, as a means of preparing persons for participating intelligently in the life of society.
 - (2b) ... service to citizens of the state by increasing their knowledge and ability to make practical application of knowledge.
- (3) "to encourage
 - (3a) ... the student's desire to serve his home, community, and nation.
 - (3b) ... optimum physical development and the safeguarding of health."

BOARD OF TRUSTEES AND OFFICERS OF ADMINISTRATION BOARD OF TRUSTEES

	Residence	Term Expires
John N. McDowell, President	Newark,	June, 1971
William G. Dix, Vice President	Bridgeville,	June, 1968
Harold H. Keller, Secretary	Laurel,	June, 1969
James C. Hardcastle	Dover,	July, 1970
Harold Schmittinger	Dover,	June, 1973
James W. W. Baker	Georgetown,	September, 1973
Edward W. Hagemeyer	Wilmington,	September, 1970
Charles E. Grubb	Newark,	September, 1968
Walton H. Simpson	Camden,	September, 1969
James H. Williams	Dover,	September, 1971
William S. Young	Wilmington,	June, 1972

EX OFFICIO

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

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President

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

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Acting Dean of the College

A.B., Morehouse College; M.S., Ph.D., University of Wisconsin
 NORWOOD C. DAVIS, B.S.

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B.S., North Carolina A & T College

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Business Manager

B.C.S., M.C.S., Benjamin Franklin University

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Head Librarian

B.S., Savannah State College; M.S.L.S., Atlanta University

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BETTY L. ALBURY, *Library Assistant*

HELEN WALKER, *Library Assistant*

LOLITA HOWELL, *Library Assistant*

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ROBERT DE SHIELDS, *Assistant Director*

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ALYCE REDDINGTON, R.N.

HELEN E. TIMMONS, R.N.

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

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

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LINDA WILSON, *Assistant Director of Tubman Hall*

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**VIOLA SUMMERS, *Assistant to the Dormitory Director*

CHILD DEVELOPMENT LABORATORY

MARY STEVENS, B.S., *Director*

COMPUTING LABORATORY

AUDREY DANIELS, *Assistant in the Computing Laboratory*

*Part-time

**Part of the Year

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Assistant in the Department of Health and Physical Education

CLAYTON HAMMOND, B.D.

*Assistant in the Department of Philosophy
and Coordinator of Religious Activities*

FREDERICK W. JONES, B.S.

*Assistant in the Department of Agriculture
and Curator of the Science Center*

**E. R. KANDAL (Rabbi)

Assistant in the Department of Foreign Languages

MARY J. OLIVER, B.S.

Assistant in the Department of Foreign Languages

KATHERINE L. SCHERER, B.A.

Assistant in the English Department and Drama

VIOLETA VALLE, A.B.

Assistant in the Department of Foreign Languages

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Director of Astronomical Observatory

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B.Sc., Philadelphia College of Pharmacy; A.B., University of Delaware

M.Sc., D.Sc., Philadelphia College of Pharmacy

M. MILFORD CALDELL, PH.D.

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Head of the Department of Education

B.S., M.S., South Carolina State College; Ph.D., Ohio State University

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Professor of Psychology

B.S., Hampton Institute;

M.A., Ed.D., Teachers College, Columbia University

NORMAN H. DILL, PH.D.

Professor of Biology and Natural Resources

A.B., University of Delaware; M.S., Ph.D., Rutgers University

THOMAS FERGUSON, JR., PH.D.

Professor of Biological Sciences

Head of the Department of Biology

B.A., Fisk University; M.S., Ph.D., State University of Iowa

**Part of the Year

ALBERT MILLER, PH.D.

Professor of Psychology

Head of the Department of Psychology

and Director of College Testing Service

B.S., M.A., Ph.D., Arizona State University

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B.Sc., Allen University; M.Sc., University of Michigan;

Ph.D., New York University

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Ph.D., Johns Hopkins University

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A.M., University of Minnesota; Ph.D., Columbia University

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Ed.D., Pennsylvania State University

**LEROY H. WOODSON, PH.D.

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Head of the Department of Foreign Languages

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MARY C. BAKER, ED.D.

Associate Professor of Education and Psychology

B.S., M.A., Ed.D., New York University

HOWARD B. BROCKINGTON, PH.D.

Associate Professor of Music Education

Head of the Department of Music Education

B.M., M.M., Michigan State University;

Ph.D., State University of Iowa

JOSEPH P. DEL TUFO, PH.D.

Associate Professor of English

A.B., Berchmans College; M.A., Ph.D., Fordham University

**Part of the Year

RONA G. FINKELSTEIN, PH.D.
Associate Professor of Philosophy
Head of the Department of Philosophy

A.B., Connecticut College; M.A., Ph.D., University of Rochester

LESTER M. LARSON, PH.D.
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A.B., Lawrence University; M.S., Ph.D., University of Wisconsin

TIEN EN LI, PH.D.
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B.S., National Chengchi University; M.S., Oklahoma State University;
Ph.D., Texas A. & M. College

DUANE G. NICHOLS, M.S., CH.E.
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B.S.Ch.E., West Virginia University;
M.S.Ch.E., University of Delaware

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

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Head of the Department of Agriculture
and Director of the Evening School
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Ed.D., New York University

ASSISTANT PROFESSORS

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B.S., Howard University; M.S., University of Chicago

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JOHN T. HOWELL, M.S.
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B.S., Hampton Institute; M.S., Michigan State University

**Part of the Year

JOHN MCCOLLOUGH, M.A.
Assistant Professor of Art Education
Head of the Department of Art Education
B.S., George Peabody College for Teachers; M.A., Columbia University

GEORGE W. McLAUGHLIN, M.ED.
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VERA POWELL, M.A.
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JOHN R. PRICE, M.B.A.
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Economics and Business Administration
A.B., Howard University; M.B.A., American University

HAMMETT W. SMITH, M.A.
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WILLIE C. SPIKES, M.S.
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B.S., Clark College; M.S., Atlanta University

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ERNEST TALBERT, M.B.A.
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M.B.A., University of Chicago

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B.S., Shaw University; M.S., North Carolina College

****ELVENA B. TILLMAN
Assistant Professor of History
A.B., M.A., Howard University

RICHARD C. WALKER, ED.M.
Assistant Professor of Education
Director of ETV and Audio-Visual Services
A.B., Sam Houston College; Ed.M., Boston University

**Part of the Year

****On leave, Second Semester

HARRY WASHINGTON, III, M.S.
Assistant Professor of Mathematics
B.A., Talladega College; M.S., University of Illinois

ULYSSES S. WASHINGTON, ED.M.
Assistant Professor of Agriculture
B.S., Virginia State College; Ed.M., Rutgers University

JAMES H. WILLIAMS, M.A.
Assistant Professor of Health and Physical Education
Director of Athletics
B.S., North Carolina College; M.A., University of Michigan

INSTRUCTORS

KATHLEEN A. BERHALTER, M.A.
Instructor of Art Education
B.S., Kutztown State College;
M.A., Teachers College, Columbia University

DONALD BLAKEY, M.A.
Instructor of Health and Physical Education
B.S., Delaware State College; M.A., University of Maryland

ERNEST J. BROWN, M.MUS.
Instructor of Music
Director of the College Choir
A.B., Maryland State College; M.Mus., Peabody Conservatory of Music

M. CECILE CHRISTOPHE, M.ED.
Instructor of English
A.B., Arkansas A.M. & N. College; M.Ed., Alabama State College

YOUNG C. CHUN, M.S.
Instructor of Education
B.S., Marion College; M.S., Southern Illinois University

**CHRISTINE DOUDNA, M.A.
Instructor of French
B.A., Kansas University; M.A., University of Wisconsin

**GEORGIA DUFFEE, B.A.
Instructor of German
B.A., Washington College

**DOROTHY B. HARRIS, M.A.
Instructor of Guidance and Counseling and
Assistant in Testing
B.S., Livingstone College; M.A., East Tennessee State University

**Part of the Year

BEATRICE HUNTER, M.Ed.
Instructor of Education
Director of Counseling Services
B.S., M.Ed., Florida A. & M. University

ARNOLD JETER, M.A.
Instructor of Health and Physical Education
Head Football Coach
B.S., Kent State University

CONSTANCE C. LIM, M.A.
Instructor of English
A.B., Marion College; M.A., Southern Illinois University

MABLE R. MORRISON, M.M.
Instructor of Music
B.S., Xavier University; M.M., De-Paul University
GUSTAV A. OFOSU, M.A.

Instructor of Biology
B.A., Inter-American College; M.A., Atlanta University
RAM Y. PATIL, M.B.A.

Instructor of Economics and Business Administration
A.B., Fergusson College; M.A.A., Atlanta University
JEAN C. RAMSEY, M.A.

Instructor of History
A.B., North Carolina College; M.A., Temple University
LILLIE M. SAULSBURY, M.A.
Instructor of Business Education and Secretarial Science
B.S., Florida A. & M. University; M.A., New York University

***REPPARD STONE, M.A.
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B.S., Morgan State College; M.A., Western Reserve University
TOSSIE E. TAYLOR, JR., M.S.

Instructor of Biology
B.S., M.S., North Carolina College

ONDINA VALCARCE, Pd.D.
Instructor of Spanish
**Acting Head of the Department of Foreign Languages
B.S., Havana Institute; Pd.D., University of Havana

OLIVIA WASHINGTON, M.A.
Instructor of Sociology and Anthropology
B.A., Talladega College; M.A., New York University

JAMES VALLE, M.A.
Instructor of History
A.B., San Francisco State College;
M.A., University of California, Los Angeles

**Part of the Year

***On Sabbatical Leave

VISITING LECTURERS

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

**VIRGINIA DENNIS, M.A.
Lecturer in 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

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MRS. C. STEVENSON	MR. J. PRICE
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DR. R. FINKELSTEIN	DR. L. WOODSON
MR. D. NICHOLS	MR. J. MCCOLLOUGH
MR. R. WALKER	DR. N. DILL
MISS G. WINSTON	DR. J. DEL TUFO

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MR. T. TAYLOR	MISS C. THOMAS— <i>Student</i>
MISS W. CLARKE	MR. N. SAUNDERS— <i>Student</i>
MR. N. FRAZIER	

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

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MRS. J. WILSON	

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DR. M. CALDWELL	MR. J. MCCOLLOUGH

FOOD SERVICE COMMITTEE

MRS. D. HARRIS— <i>Chairman</i>	MISS M. THORPE
MRS. H. JONES	MISS R. LITTLE— <i>Student</i>
MR. M. HINES	MR. S. CRISDEN— <i>Student</i>

LIBRARY COMMITTEE

DR. J. DEL TUFO— <i>Chairman</i>	MRS. M. BROWN
MR. J. MCCOLLOUGH	DR. R. FINKELSTEIN
MRS. M. CHRISTOPHER	MRS. O. VALCARCE
MRS. E. TILLMAN	MISS D. WILDER— <i>Student</i>
MISS G. WINSTON	MISS S. INGRAM— <i>Student</i>
DR. A. BANKS	

LYCEUM COMMITTEE

MISS M. MORRISON— <i>Chairman</i>	MRS. C. LIM
MR. H. WASHINGTON, III	MR. L. DYSON— <i>Student</i>
MR. J. GARDNER	MR. O. BROWN— <i>Student</i>
MR. R. SIMMONS	

SCHOLARSHIP AND FINANCIAL AID COMMITTEE

DR. N. TILLMAN, JR.— <i>Chairman</i>	DR. N. DILL
MISS J. RAMSEY	MR. N. DAVIS
MISS M. LANE	DR. M. CALDWELL
MR. F. FRANKLIN	DR. H. BROCKINGTON

STUDENT DISCIPLINARY APPEALS COMMITTEE

DR. N. TILLMAN, JR.— <i>Chairman</i>	DR. N. DILL
DR. A. MILLER	MISS L. HASKINS— <i>Student</i>
MRS. O. WASHINGTON	MR. R. BROWN— <i>Student</i>
MR. J. GARDNER	

STUDENT PERSONNEL COMMITTEE

MRS. D. HARRIS— <i>Chairman</i>	REV. C. HAMMOND
MISS B. HUNTER	MR. T. BAKER— <i>Student</i>
MR. L. INGRAM	MISS S. HICKMAN— <i>Student</i>
MRS. L. THOMASSON	

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 the offices of the Administration, the Audio-Visual Aids Center; Foreign Language Laboratory; classrooms; the Child Development Laboratory; and some faculty offices.

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 for the Departments of Psychology and Music Education, classrooms 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 freshman and sophomore 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.

Men's Residence Hall Number Two. This residence facility houses 230 junior and senior men. It contains a lounge and staff apartment on each floor, barber shop, canteen, and recreation room.

Business Administration and Home Economics Building. The newest instructional facility, this building houses the Department of Economics and Business Administration and the Department of Home Economics. It contains highly specialized laboratories for instruction and research, reading rooms, quarters for data processing and computer equipment, a home management apartment, offices, and an auditorium.

Home Management House. This is a residential facility of contemporary ranch design. It is fully equipped and furnished to house students and a home management instructor simultaneously for alternating periods as required by the curriculum.

Student Activities Center. Completed in 1967, this building is the hub of student life. It houses offices for student organizations and some student personnel services, a post office, book store, canteen, recreation and entertainment rooms, meeting rooms, lounges, and a large auditorium-ballroom. A bowling alley, lounge, and additional meeting rooms are being added during the 1968-69 academic year.

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

The Infirmary. A modern infirmary which is adequately equipped is operated by the College for students who require medical treatment or confinement for minor illnesses.

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

GENERAL INFORMATION

How to Reach the College

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

Students coming from the Washington-Baltimore area may travel by bus to State Road, Delaware, or Harrington, 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. Airline service is available to Wilmington, Washington, Baltimore, and Philadelphia for connections with buses to Dover.

STUDENT SERVICES AND ACTIVITIES

Placement Service

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

Student Organizations

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

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

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

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

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

The Sociology Club presents visiting speakers, and engages in discussions of current developments in the field of sociology.

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

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

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

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

The 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 History Club is an organization of interested students who discuss historical subjects and conduct programs related to history and current events.

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

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

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. In addition, there are Music Department concerts, Art Exhibits and a movie series.

Athletics

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

Intercollegiate sports are of real importance in the education of students for leadership and responsibility. Baseball, basketball, football, track and field, tennis, swimming, and golf 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.

Guidance and Counseling Services

The College strives to maintain close relationship between students and faculty. It recognizes the value of competent guidance and counseling of students in educational, vocational, and personal matters. To provide for a better understanding of educational aims and the extent to which the individual is making satisfactory adjustment to his responsibilities and difficulties, faculty advisers and the Counseling Center work jointly for the maximum benefit of the student.

Academic counseling is conducted through the Counseling Center in the Business Administration-Home Economics Building. The work of the Counseling Center is carried on by a professional staff which is concerned with helping the student in his choice of worthwhile and appropriate educational goals. In addition, supplementary counseling is available to aid students in resolving personal difficulties that may impede their academic, social, and emotional growth.

FEES AND EXPENSES

General College Fees

	1st Semester	2nd Semester	Total
Tuition (Out-of-state students only) . . .	\$175.00	\$175.00	\$350.00
College Fee	75.00	75.00	150.00
Registration Fee (nonrefundable)	25.00	25.00	50.00
Medical Fee	7.50	7.50	15.00
*Student Insurance (nonrefundable)	22.60	—	22.60
Student Activity Fee	22.50	22.50	45.00
Room and Board	325.00	325.00	650.00
Library Fee	2.50	2.50	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
**Room Deposit (nonrefundable)	—	—	10.00

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

**This deposit must be made prior to July 15 for the first semester and before December 15 for students entering at mid-year.

Laboratory Fees

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

Agriculture 201	\$8.00
Agriculture 202	8.00
Agriculture 308	8.00
Agriculture 416	8.00
Art 102	8.00
Art 201	8.00
Art 301	8.00
Art 302	8.00
Biology	12.50
Business Machines	8.00
Chemistry	12.50
Home Economics 102	8.00
Home Economics 104	8.00
Home Economics 106	8.00

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

The College reserves the right to assess a special fee to cover the cost of using off-campus facilities when required in connection with any course offering.

SCHEDULE OF PAYMENT OF FEES

The following is a complete schedule of tuition and fees. All college fees are payable at time of registration. Room and board charges may be paid in full at registration or in installments as shown in the following schedule:

Payment Schedule—First Semester

In-state students

	9/12	10/5	11/5	12/5	Total
Boarding	\$236.35	\$81.25	\$81.25	\$81.25	\$480.10
Non-boarding	155.10	—	—	—	155.10

Out-of-state students

Boarding	411.35	81.25	81.25	81.25	655.10
Non-boarding	330.10	—	—	—	330.10

Payment Schedule—Second Semester

In-state resident students

	2/	3/5	4/5	5/5	Total
Boarding	\$213.75	\$81.25	\$81.25	\$81.25	\$457.50
Non-boarding	132.50	—	—	—	132.50

Out-of-state students

Boarding	388.75	81.25	81.25	81.25	632.50
Non-boarding	307.50	—	—	—	307.50

Students who have resided in the State of Delaware for the entire year immediately preceding their first registration at the College are considered "In-state Students."

All installments are payable either by mail or in person at the Business Office on the dates indicated. Payments should be made by cashier's check, certified check, or money order. Personal checks are accepted subject to collection. All checks should be made payable to Delaware State College.

Students whose accounts are in arrears forfeit dining hall and dormitory privileges. A student who registers as a boarding student is obliged to pay all boarding charges for the semester.

Withdrawal Refunds

Students withdrawing from College after the beginning of classes are entitled to refunds only if the withdrawal is officially acknowledged by the Registrar within the period indicated. Refunds will be made on the following basis:

Within ten days—All regular fees refunded except the registration and insurance fees. Boarding charges are refunded on a pro-rated daily basis.

From eleven to thirty days inclusive—Two-thirds of all regular fees refunded except the registration and insurance fees. Boarding charges are refunded on a pro-rated daily basis.

No refund after thirty days.

Students withdrawing within thirty days shall have the unused portion of all scholarships, grants and loans refunded to the respective funds.

No credit may be extended beyond the due dates shown in the payment schedules. Special arrangements may be made with the Business Manager only in those cases where students are receiving Federal or State Aid in the form of scholarships, grants, or loans.

Textbooks may be purchased for cash only at the College Book Store. The purchase of books cannot be charged to the student's account unless there is an existing credit balance.

FINANCIAL AID

Financial assistance is made available to eligible students through scholarships provided by the State Legislature and a limited number from private sources, work-aid, grants, and student loans. All funds are administered by the Scholarship Committee.

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 and the scholastic standing of the individual. Students entering in the fall must apply by July 15 and those entering in the spring by December 15.

Financial Grants-In-Aid

A limited number of work-aid assignments are awarded each year to deserving students. Students who desire such assistance should write to the Dean of Students and file application for the job desired not later than July 15 for fall assignments and December 15 for spring jobs.

Students who need small sums of money for emergency purposes related to their academic program may apply for a short term loan through the Office of the Dean of Students. 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

Delaware State College welcomes men and women of good character whose qualifications indicate a potential for successful college work. It is the intent of the Admissions Committee to grant admission to those having the necessary background and skills to enable them to succeed in and profit from study at Delaware State College.

The percentage of out-of-state students is fixed. General admissions are made twice each academic year to the fall and spring semesters. Students seeking admission should apply either in person or by mail to the Director of Admissions, Delaware State College, Dover, Delaware 19901.

N.B.—Failure to give complete and accurate information will be grounds for dismissal. False or incomplete information will be grounds for disqualification for admission.

The following are required:

1. A certificate or diploma from an accredited four-year high school or an accredited senior high school, with the recommendation of the principal or counselor. At least three personal recommendations are required.
2. SAT scores, preferably of tests taken in December or January of the senior year of secondary school, although results of tests completed during the junior year will be accepted.
3. A satisfactory health report on blanks furnished by the college. This includes a health history, a thorough physical examination and a certificate of successful vaccination. Each prospective student is advised to have his eyes and teeth examined and all defects corrected before entering college.

4. An official transcript of each high school and college attended, with a statement of honorable dismissal from each college attended.

Degree Candidate

1. Graduation from high school where the record of performance has been a creditable one. This criterion normally includes satisfactory completion of fifteen acceptable units* at an accredited high school distributed as follows:

English	4 units
Mathematics	2 units
Science	1 or 2 units
History	1 unit
Electives	6 or 7 units

N.B.—Any student who is accepted with a deficiency in a required unit area (e.g., English, Science, etc.) will be admitted conditionally subject to making up the deficiency within his first thirty hours.

2. An applicant who is admitted with a deficiency in one of the preferred unit areas (e.g., English, Science, etc.), must submit 15 other acceptable units.

3. The college will accept for both credit and advanced placement various college level courses successfully completed in high school under the auspices of the Advanced Placement Program of the CEEB and Delaware State College's Program.

4. 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.

5. 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.

Admission Decision

A permit to register is issued by the Office of Admissions to those applicants who meet the requirements for admission. This permit is issued upon receipt of payment of an enrollment fee of ten dollars (\$10.00). Payment is required within thirty (30) days from the date that notice of eligibility for admission is issued. The fee is not returnable. If the application is denied, the applicant will be notified of the reasons.

Advanced Standing

Students who have attended college elsewhere and wish to apply to Delaware State College for advanced standing must meet the following requirements:

1. Satisfy entrance requirements.

2. Have an official transcript of all work completed in other institutions (high school and college) sent to the Director of Admissions, Delaware State College, Dover, Delaware. 19901.

3. Courses to be transferred must be substantially equivalent to respective courses in the degree program of Delaware State College.

4. In courses for transfer credit the applicant must have earned a grade of C or better. In a continuing one-year course (e.g., first-year English, French, Mathematics, etc.) the first semester grade may be "D," but the second semester grade must be "C" or better.

In instances where courses from other colleges only partially fulfill general education requirements, students will be required to elect another course in said area if the shortage is greater than one semester hour.

The college reserves the right to reject credits received for correspondence courses.

N.B.—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 Provisional Students

1. Students still in high school. In order to qualify for early admission to college courses, high school seniors from the State of Delaware must be recommended by their high school principal, and approved by their parents and the college, and obtain a satisfactory score on the tests administered by the college.

2. Students seeking credit but not a degree. Mature high school graduates who may or may not have attended college may be admitted to the college without filing a transcript of high school or college work completed. Such students would be limited in the number of courses (12 semester hours) they might take unless special permission has been given by the Academic Dean. These students must abide by all rules and regulations of the college, but may not qualify for a degree. If they wish to transfer to a degree program they must apply to the Office of Admissions and fulfill all requirements for admission to the college.

3. Foreign Students. The college considers for admission foreign students whose transcripts are cleared as satisfactory by the International Education 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 during the academic year. A student's status may be changed for subsequent years by proper application by the student together with such evidence as may be required to establish the intent of the parents or the student if self-supporting, to be a legal resident of the State of Delaware.

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. Residency as a student on the Delaware State College campus will not count in determining the one-year requirement for resident status.

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 prior to registration and will officially approve his program before it is filed with the Dean of the College and the Registrar.

Freshman Academic Advisory Panel

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

Late Registration

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

Withdrawal from College

Students voluntarily withdrawing from College must fill out in duplicate the withdrawal form procured from the Office of the Registrar. Students withdrawing will be reported as having withdrawn failing (WF)

or withdrawn passing (WP), depending upon the quality of performance at the time of withdrawal. Students withdrawing without following this procedure will receive grades of "F" for their course.

Reinstatement

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

Credits

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

Credit will not be granted for correspondence courses.

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

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

Transcript of Records

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

ACADEMIC REGULATIONS

Academic Probation

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

In order to be removed from academic probation, a student must earn a grade point average of 2.00 or better the next semester in residence. 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 average.

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 fourteen or more semester hours during the preceding semester, earned a scholastic average of 3.25 or above.

Honors are awarded at graduation under the following conditions:

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

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

With Honor for a scholastic average between 3.25 and 3.50.

Examinations

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

GENERAL PLAN OF STUDY

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

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

Requirements for the Baccalaureate Degree

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

1. A minimum of one hundred and twenty-one semester hours of academic work and the satisfactory completion of the curriculum in which he is enrolled at the time he applies for graduation. The number of grade points earned must at least double the number of semester hours accumulated. No student is eligible for a degree unless he has earned a grade of C in each course of his field of specialization.
2. Of the total of one hundred and twenty-one semester hours, fifty-six of General Education are required; fifteen hours of intellectual tools and competencies—English, Freshman Orientation, Health Education, and Physical Education; fourteen hours in the Humanities—Word Literature, Fine Arts, Music, Philosophy, and Foreign Languages; fourteen hours in the Natural Sciences—Biology, Chemistry, Mathematics, and Physics; and thirteen hours in the Social Sciences—Western Civilization, History and Government of Delaware, General Psychology, Principles of Economics, American Government, History of the United States, or Introduction to Sociology.
3. Those students electing to take a foreign language must complete two full years (12 semester hours) on the college level in one language. Students presenting two units of high school work in a foreign language may be exempted from the first year language course on the college level after satisfactory performance on a standardized language test.
4. A student may select a certain number of electives in accordance with his interests and professional purposes. He should do this in conference with his advisor.

5. All candidates must earn four (4) semester hours in physical education. Each student must, before entering the college, have had a physical examination. Students who are certified by their physician or the college physician as unable to participate in the regular physical education program must enroll in the modified physical education classes for four semesters.

6. A candidate for the Bachelor's degree must complete the last thirty semester hours of credit at this College with at least sixty grade points.

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

General Education

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

Intellectual Tools and Competencies 15

Required of all:

Education 101—Freshman Orientation	1
English 101-102—English Composition	6
English 200—Public Speaking	2
Health Education 101—Personal Hygiene	2
Physical Education 100—Physical Education Orientation— and three hours of electives on the 100-level courses	4
Humanities	14

Required of all:

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

Art 101—Art Appreciation	2
Art 102—Fundamentals of Drawing and Design	2
French 101-102—Elementary French	6
French 201-202—Intermediate French	6
German 101-102—Elementary German	6
German 201-202—Intermediate German	6
Music 101—Introduction to Music	2
Philosophy 201—Introduction to Philosophy	3
Philosophy 202—Ethics	3
Philosophy 203—Religions of Mankind	3
Spanish 101-102—Elementary Spanish	6
Spanish 201-202—Intermediate Spanish	6

Natural Sciences 14

*Six credits to be selected from:

Mathematics 101-102—Introduction to Mathematics	6
Mathematics 101-104—Analytic Geometry	6
Mathematics 105-106—Mathematics for Elementary Teachers	6

*Only majors in Elementary Education may select Mathematics 105-106 to satisfy this requirement. All others should consult their curricula and departmental advisor for recommended selections. Students whose high school records indicate a mastery of material covered in Mathematics 101 and/or Mathematics 104 may, with the consent of the Department of Mathematics, elect Mathematics 201 and/or Mathematics 202 to fulfill the General Education requirement in Mathematics.

Eight credits to be selected from:

Biology 101-102—General Biology	8
Chemistry 101-102—General Chemistry	8
Physics 201-202—General Physics	8

Social Sciences 13

Required of all:

History 101-102—World Civilization	6
History 104—History and Government of Delaware	1
Psychology 201—General Psychology	3

Three additional hours to be selected from:

Economics 201—Principles of Economics	3
Political Science 103—Introduction to Government	3
History 201 or 202—History of the United States	3
Sociology 201—Introduction to Sociology	3

Freshman Differential Curriculum

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

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

Track B is composed of students of average educational achievement.

Track C consists of students whose performance on the tests and in secondary school 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. Any Track C student with an average below 1.70 at the end of the freshman year may attend summer school in order to bring his average up to where he can remain in school (1.70). In such cases, the summer school grades will be included in the second semester average. Furthermore, any student in Track C who earns an average of C or better during the second semester is allowed a third semester in order to bring his average up to where he can remain in school. The program also provides for students to be transferred, depending upon their academic performance during the year, from one particular Track to another. Students transferred to Track C who have performed satisfactorily in English Composition are allowed to remain in a "regular" English class.

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

CURRICULUM ORGANIZATION

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

In the numbering of courses in the curriculum, odd numbers refer generally to courses offered in the first semester and even numbers to courses offered in the second semester. The first digit of a course number indicates the level of the course. For example, courses intended primarily for freshmen are numbered 100; those primarily for sophomores, 200; those primarily for junior, 300; and those primarily for seniors, 400. Hyphenated numbers (e.g. English 101-102) represent year courses.

AGRICULTURE AND NATURAL RESOURCES

CORE CURRICULUM

Freshman Year

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

Sophomore Year

First Semester	Hours	Second Semester	Hours
Agriculture 200 or Natural Resources 205	3	Chemistry 102 or 104	4
*Chemistry 101 or 103	4	English 200	2
General Education Elective	3	General Education Elective	3
History 104	1	Humanities 202	4
Humanities 201	4	**Electives	3-6
**Electives	1-3	Physical Education Elective (100 Level)	1
Physical Education Elective (100 Level)	1		
	17-19		17-20

*Students required to take Organic Chemistry must elect 101-102.

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

CURRICULUM OPTIONS IN AGRICULTURE

Suggested Arrangement of Courses

A major in Agriculture requires a minimum of thirty hours of work selected from Agriculture, Natural Resources, and Biology. Students majoring in Agricultural Education are required to complete the courses listed in the curriculum.

GENERAL AGRICULTURE

Required Courses: Agriculture 208, 309, and 450; Natural Resources 321.

Suggested Electives: All Agriculture Courses; Biology 303 and 306;

Natural Resources 201 and 321; Sociology 302; Chemistry 301-302.

Junior Year

First Semester	Hours	Second Semester	Hours
Economics 201	3	Geography 101	3
Psychology 201	3	Agriculture 208	3
Agriculture 350	1	Agriculture 350	1
Electives	8-11	Electives	8-11
	15-18		15-18

Senior Year

First Semester	Hours	Second Semester	Hours
Agriculture 319	3	Agriculture 450	1
Agriculture 419	3	Electives	15
Agriculture 450	1		
Electives	9		
	16		16

HORTICULTURE

Required Courses: Agriculture 219, 319, 419, and 450; Biology 202.

Suggested Electives: Agriculture 204, 208, 210, 306, 308, 310, and 317;

Biology 303, 306, and 308; Natural Resources 201, 202, 205, and 401.

Junior Year

First Semester	Hours	Second Semester	Hours
Economics 201	3	Geography 101	3
Psychology 201	3	Biology 202	3
Agriculture 219	3	Agriculture 350	1
Agriculture 350	1	Electives	8-11
Electives	5-8		
	15-18		15-18

Senior Year

First Semester	Hours	Second Semester	Hours
Agriculture 319	3	Agriculture 450	1
Agriculture 419	3	Electives	15
Agriculture 450	1		
Electives	9		
	16		16

CURRICULUM OPTIONS IN NATURAL RESOURCES

Suggested Arrangement of Courses

A major in Natural Resources requires a minimum of thirty hours of work selected from Natural Resources, Agriculture, Biology, and in the case of Park Administration and Recreation, Physical Education.

PARK ADMINISTRATION AND RECREATION

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

Suggested Electives: Agriculture 210; Biology 202 and 308; Natural Resources 201, 202, 321, 401, 402, and 403.

Junior Year

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

Senior Year

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

WILDLIFE MANAGEMENT

Required Courses: Natural Resources 311, 321, 403, 450, and 451.

Suggested Electives: Agriculture 210; Biology 200, 201, 202, 204, 303, and 308; Natural Resources 201, 202, 312, 313, 314, 400, 401, 402, 404, and 405.

Junior Year

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

Senior Year

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

FISHERIES MANAGEMENT

Required Courses: Natural Resources 314, 321, 404, 405, 450, and 451.
Suggested Electives: Biology 200, 201, 204, 303, 305, 307, and 308; Natural Resources 201, 202, 313, and 403.

Junior Year

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

Senior Year

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

SOIL AND WATER MANAGEMENT

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

Suggested Electives: Agriculture 210; Biology 202, 204, 303, 305, and 308; Natural Resources 201, 202, 400, and 403.

Junior Year

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

Senior Year

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

VEGETATION MANAGEMENT

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

Suggested Electives: Agriculture 208, 210, and 308; Biology 303 and 308; Natural Resources 201, 202, 400, 401, and 403.

Junior Year

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

Senior Year

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

GENERAL RESOURCE MANAGEMENT

Required Courses: Natural Resources 321, 450, and 451.

Suggested Electives: Agriculture 208, 210, and 308; Biology 202, 204, 303, 306, and 308; Natural Resources 201, 202, 311, 312, 401, 402, and 403.

Junior Year

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

Senior Year

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

ENVIRONMENTAL HEALTH

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

Suggested Electives Biology 200, 204, 303, and 307; Natural Resources 201 and 401.

Junior Year

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

Senior Year

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

AGRICULTURE

200. **AGRICULTURAL SCIENCE.** The role of agriculture in man's past, present, and future. Discussion of current topics in applied biology. Lectures, laboratories, and field trips. Credit, three hours.

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 practice for dairy and beef cattle, swine, sheep, and work-stock. The balancing of rations. Two lectures and one laboratory period per week. Credit, three hours.

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

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

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

219. **GENERAL HORTICULTURE.** A study of fruit, vegetable, and ornamental plants; the factors which influence their culture, value, and importance, with particular reference to the Delmarva Peninsula. Lectures and laboratory. Credit, three hours.

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

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

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

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

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

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

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

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

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

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

316. FARM MECHANICS. A continuation of Agriculture 315 covering brick and cement work, plastering, electrical wiring, motors, forging, soldering, sheet metal work, and elementary welding and cutting. Two laboratory periods per week. Credit, two hours.

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

319. HORTICULTURAL PLANT MATERIALS. Ecology, taxonomy, and landscape uses of herbaceous and woody plant materials. Lectures, laboratories, and field trips. Credit, three hours.

350. PROBLEMS IN AGRICULTURE AND NATURAL RESOURCES. An opportunity to pursue independent study and research. May be elected in any semester. Credit, one to three hours.

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

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

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

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

419. PLANT PROPAGATION AND GREENHOUSE MANAGEMENT. Techniques and principles of plant propagation by seeds, grafts, buds, cuttings, layers, and division. Fundamentals of greenhouse management and construction. Lectures, laboratories, and field trips. Credit, three hours.

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

450. SEMINAR IN AGRICULTURE AND NATURAL RESOURCES. Discussion of topics of current interest. Presentation of student papers. Lectures, discussions, field trips. Credit, one hour per semester.

NATURAL RESOURCES

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

202. **MICROCLIMATOLOGY.** A study of the climate near the ground. Influence of vegetation, snow, fog, and topography on microclimates. Agricultural and medical implications. Microclimate of cities. Offered in alternate spring semesters. Credit, three hours.

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

302. **NATURAL RESOURCES MECHANICS.** A beginning course designed to provide applied instruction in the care and use of tools and equipment used by natural resources managers. Two laboratory periods per week. Credit, two hours.

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

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

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

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

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

350. **PROBLEMS IN AGRICULTURE AND NATURAL RESOURCES.** An opportunity to pursue independent study and research. May be elected in any semester. Credit, one to three hours.

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

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

402. **VEGETATION MANAGEMENT.** A study of the theories and applications of plant ecology pertaining to the management of natural or semi-natural vegetation. Effects on vegetation of pesticides, fire, and mechanical manipulation. Consideration is given to management of right-of-way vegetation. Two 3-hour seminar laboratories. Offered in alternate fall semester. Prerequisite: Biology 210, Natural Resources 401, or consent of instructor. Credit, three hours.

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

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

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

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

450. **SEMINAR IN AGRICULTURE AND NATURAL RESOURCES.** Discussion of topics of current interest. Presentation of student papers. Lectures, discussions, field trips. Credit, one hour per semester.

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

THE DEPARTMENT OF ART EDUCATION

The objectives in the major program of the Art Education Department are to prepare students, showing talents and interests in art, for teaching the subject in elementary and secondary schools, to prepare

majors, interested in advanced study, with a substantial background for such study; and to provide opportunities for in-service teachers to participate in varied creative experiences that will broaden their backgrounds for teaching.

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

CURRICULUM IN ART EDUCATION

Freshman Year

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

Sophomore Year

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

Junior Year

First Semester	Hours	Second Semester	Hours
Psychology 302	3	Psychology 303	3
Art Education 341	3	Art Education 342	3
Art 301	3	Art 302	3
Art 305	2	Art 304	3
Art 308	3	Art 309	3
Elective (Economics, Government,		Art 306	2
History or Sociology)	3	Elective	1
	17		18

Senior Year

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

ART EDUCATION

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

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

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

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

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

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

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

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

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

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

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

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

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

309. **ART HISTORY II.** Deals with development of art from the Italian Renaissance to the present. Various aspects considered are painting, architecture, sculpture, and the minor arts. Prerequisite, Art 308. Credit, three hours.

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

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

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

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

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

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

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

THE DEPARTMENT OF BIOLOGY

The objectives of the Biology Department are to develop in the student an understanding of, a respect for and some facility in the application of the clear and unbiased method of thinking that should characterize the intelligent individual; to develop in the student an appreciation for and some understanding of the organic world; to familiarize the student with biological principles that a modern citizen needs if he is to make an intelligent and effective adjustment to the demands of life.

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

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

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

CURRICULUM IN BIOLOGY (NON-TEACHING)

123-128

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

Freshman Year

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

Sophomore Year

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

Junior Year

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

Senior Year

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

CURRICULUM IN BIOLOGY FOR A TEACHING MAJOR

Freshman Year

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

Sophomore Year

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

Junior Year

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

Senior Year

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

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

CURRICULUM IN BIOLOGY (EMPHASIS IN BOTANY)

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

Freshman Year

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

Sophomore Year

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

Junior Year

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

Senior Year

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

BIOLOGY

101-102. **GENERAL BIOLOGY.** An introduction to the study of life with emphasis on basic concepts: energy relationships, cell biology, physiology, genetics, development, ecology, and evolution. Also, some at-

tention is given to taxonomy and morphology of organisms. Two lectures and one 3-hour laboratory period each week with a 1-hour recitation period each week. Must be taken in sequence. Credit, eight hours.

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

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

202. **SYSTEMATIC BOTANY.** The study of plant taxonomy with emphasis on vascular plants of the Del-Mar-Va Peninsula. Two 3-hour seminar laboratories. Offered in alternate spring semesters. Prerequisites: Biology 101-102 or consent of instructor. Credit, three hours.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

THE DEPARTMENT OF CHEMISTRY

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

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

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

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

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

CURRICULUM IN CHEMISTRY

128-140

Freshman Year

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

Sophomore Year

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

Junior Year

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

Senior Year

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

CURRICULUM IN CHEMISTRY FOR A TEACHING MAJOR

149-154

Freshman Year

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

Sophomore Year

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

Junior Year

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

Senior Year

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

CHEMISTRY

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

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

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

203. WATER CHEMISTRY—BASIC PRINCIPLES. An introduction to the basic principles of water chemistry with particular emphasis on the principal physical and chemical methods of testing water and waste water and the mathematical treatment employed in the interpretation of the analytical data. Three lectures and one 150-minute laboratory period per week. Prerequisites: Chemistry 101-102; Mathematics 101 and 102 or 104. Credit, four hours.

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

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

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

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

401. ORGANIC QUALITATIVE ANALYSIS. The detection and identification of the more important groups and compounds; the detection, separation and identification of the components of mixtures. Emphasis

placed on modern techniques of organic analysis. Two lectures and one 150-minute laboratory period per week. Prerequisites: Chemistry 301-302 and 306. Credit, three hours.

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

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

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

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

THE DEPARTMENT OF ECONOMICS AND BUSINESS ADMINISTRATION

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

CURRICULUM IN ECONOMICS

128

Freshman Year

First Semester	Hours	Second Semester	Hours
English 101	3	English 102	3
History 101	3	History 102	3
Biology 101 or Chemistry 101	4	Biology 102 or Chemistry 102	4
Foreign Language 101	3	Foreign Language 102	3
Education 101	1	Business 108	3
Health Education 101	2	Physical Education Elective	
Physical Education 100	1	(100 Level)	1
	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	Foreign Language 202	3
Foreign Language 201	3	Mathematics 102 or 104	3
Mathematics 101	3	English 200	2
Physical Education Elective		Physical Education Elective	
(100 Level)	1	(100 Level)	1
	17		16

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
Electives	6	History 104	1
	15	Electives	6
			16

Senior Year

First Semester	Hours	Second Semester	Hours
Economics 313	3	Economics 418	3
Economics 411	3	Economics 414	3
Economics 421	3	Electives	9
Electives	6		
	15		15

ECONOMICS

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

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

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

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

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

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

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

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

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

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

418. **BUSINESS CYCLES.** A study of factors determining fluctuations in business activity, employment, price levels, and the relations of those 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. Prerequisite: Economics 201. Credit, three hours.

BUSINESS ADMINISTRATION CURRICULUM IN ACCOUNTING

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
Mathematics 101	3	Mathematics 102 or 104	3
Education 101	1	Business 108	3
Physical Education 100	1	Physical Education Elective	
Health Education 101	2	(100 Level)	1
	17		17

Sophomore Year

First Semester	Hours	Second Semester	Hours
Humanities 201	4	Humanities 202	4
Economics 201	3	Economics 202	3
Business 205	3	Business 206	3
*Philosophy 201 or 203	3	*Philosophy 202	3
Psychology 201	3	English 200	2
Physical Education Elective		History 104	1
(100 Level)	1	Physical Education Elective	
	17	(100 Level)	1
			17

Junior Year

First Semester	Hours	Second Semester	Hours
Business 305	3	Business 306	3
Business 401	3	Business 402	3
Business 303	3	Business 308	3
Business 301	3	Economics 414	3
Business 307	3	Business 310	3
Economics 307	3	Electives	3
	18		18

Senior Year

First Semester	Hours	Second Semester	Hours
Business 405	3	Business 416	3
Business 411	3	Business 424	3
Business 423	3	Business 430	3
Business 427	3	Electives	6
Electives	3		
	15		15

*A student may elect a foreign language in lieu of the prescribed Philosophy courses. Such an election must meet the foreign language requirements of the college.

GENERAL CURRICULUM IN BUSINESS ADMINISTRATION

Freshman Year

First Semester	Hours	Second Semester	Hours
English 101	3	English 102	3
History 101	3	History 102	3
Biology 101 or Chemistry 101	4	Biology 102 or Chemistry 102	4
Physical Education 100	1	Physical Education Elective	
Mathematics 101	3	(100 Level)	1
Education 101	1	Mathematics 102 or 104	3
Health Education 101	2	Business 108	3
	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
*Philosophy 201 or 203	3	*Philosophy 202	3
Psychology 201	3	Physical Education Elective	
Physical Education Elective		(100 Level)	1
(100 Level)	1	History 104	1
	17	English 200	2
			17

Junior Year

First Semester	Hours	Second Semester	Hours
Business 305	3	Business 306	3
Business 303	3	Business 310	3
Business 301	3	Economics 414	3
Economics 307	3	Electives	6
Electives	3		
	<hr/> 15		<hr/> 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
	<hr/> 15		<hr/> 15

*A student may elect a foreign language in lieu of the prescribed Philosophy courses. Such an election must meet the foreign language requirements of the college.

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

Freshman Year

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

Sophomore Year

First Semester	Hours	Second Semester	Hours
Secretarial Science 201	2	Secretarial Science 202	2
Business 205	3	Business 206	3
Secretarial Science 103	3	Secretarial Science 104	3
Mathematics 101	3	Mathematics 102 or 104	3
Business 211	3	English 200	2
Humanities 201	4	Humanities 202	4
Physical Education Elective (100 Level)	1	Physical Education Elective (100 Level)	1
	<hr/> 19		<hr/> 18

Junior Year

First Semester	Hours	Second Semester	Hours
Business 305	3	Education 204	3
Economics 201	3	Business 306	3
Philosophy 201	3	Psychology 302	3
Psychology 201	3	Secretarial Science 304	3
Secretarial Science 203	3	Secretarial Science 302	3
Secretarial Science 307	3	Secretarial Science 308	3
	<hr/> 18		<hr/> 18

Senior Year

First Semester	Hours	Second Semester	Hours
Business 301	3	Business 328	3
Business 327	3	Education 412	8
Business 401	3	Secretarial Science 402	3
Education 411	1		
Philosophy 202 or 203	3		
Psychology 303	3		
Psychology 305	3		
	<hr/> 19		<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. **ACCOUNTING I.** Functions and classification of accounts; the recording process. Development of modern accounting records, including journals and ledgers, theory of depreciation and reserve accounts. Practice set required. Credit, three hours.

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

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

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

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

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

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

307. 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.

308. 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 307. Credit, three hours.

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

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

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

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

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

405. MARKETING. A study of the economic functions of marketing and of the factors, processes, and institutions which condition these functions. Prerequisite: 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.

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

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

423. BASIC 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 an auditor. Methods of internal control and their relation to the auditing procedure. Prerequisites: Business 205, Business 206, Business 305, and Business 306 or permission from the instructor. Credit, three hours.

424. ADVANCED AUDITING. Solution of advanced auditing problems and the application of accepted auditing theory and practice. Prerequisites: Business 205, Business 206, Business 305, Business 306, and Business 423 or permission from the instructor. Credit, three hours.

427. GOVERNMENTAL AND INSTITUTIONAL ACCOUNTING. Accounting principles and practices of governmental and institutional organizations covering appropriations, funds, revenues, expenditures, budgets, and statements. Prerequisites: Business 205, Business 206, Business 305, and Business 306 or permission from the instructor. Credit, three hours.

430. ADVANCED ACCOUNTING PROBLEMS. Solutions of advanced accounting problems of the type appearing in the practice session of the Uniform CPA Examination. Prerequisites: All listed Accounting courses prior to the second semester of the senior year in the Accounting Curriculum or permission from the instructor. Credit, three hours.

SECRETARIAL SCIENCE

CURRICULUM IN SECRETARIAL SCIENCE

Freshman Year

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

Sophomore Year

First Semester	Hours	Second Semester	Hours
Secretarial Science 103	3	Secretarial Science 104	3
Secretarial Science 201	2	Secretarial Science 202	2
Business 205	3	Business 206	3
Mathematics 101	3	Mathematics 102 or 104	3
Humanities 201	4	Humanities 202	4
Psychology 201	3	Physical Education Elective (100 Level)	1
Physical Education Elective (100 Level)	1		
	19		16

Junior Year

First Semester	Hours	Second Semester	Hours
Economics 201	3	English 200	2
Business 305	3	Philosophy 202	3
Business 301	3	Secretarial Science 204	3
Secretarial Science 203	3	Secretarial Science 302	3
Philosophy 201 or 203	3	Secretarial Science 308	3
Secretarial Science 307	3	Electives	3
	<u>18</u>		<u>17</u>

Senior Year

First Semester	Hours	Second Semester	Hours
Business 401	3	Business 402	3
Economics 307	3	Secretarial Science 402	3
Electives	9	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 students up to professional standards. Prerequisites for Secretarial Science 203 are Secretarial Science 103 and 104. Prerequisites for Secretarial Science 204 are Secretarial Science 103, 104, and 203. Credit, six hours.

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

307. **DATA PROCESSING I.** A basic electronic data processing course covering the key punch machine, sorter, collator, accounting machine, and other peripheral equipment. Credit, three hours.

308. **DATA PROCESSING II.** A course with emphasis on advanced applications of basic concepts learned in Data Processing I including also an introduction to computing equipment. Prerequisite: Secretarial Science 307. 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.

CURRICULUM IN DISTRIBUTIVE EDUCATION

Freshman Year

First Semester	Hours	Second Semester	Hours
English 101	3	English 102	3
Biology 101 or Chemistry 101	4	Biology 102 or Chemistry 102	4
Health Education 101	2	History 104	1
Education 101	1	Geography 102	3
Secretarial Science 101	2	Secretarial Science 102	2
History 101	3	History 103	3
Physical Education 100	1	Physical Education Elective (100 Level)	1
	<u>16</u>		<u>17</u>

Sophomore Year

First Semester	Hours	Second Semester	Hours
Mathematics 101	3	Mathematics 102	3
Business 211	3	Business 108	3
Humanities 201	4	Humanities 202	4
Business 303	3	Home Economics 106	3
Economics 201	3	Physical Education Elective (100 Level)	1
Physical Education Elective (100 Level)	1	Elective	3
	<u>17</u>		<u>17</u>

Junior Year

First Semester	Hours	Second Semester	Hours
English 200	2	Education 204	3
Business 310	3	Psychology 204	3
Business 401	3	Home Economics 104	3
Business 405	3	Business 407	3
Psychology 201	3	Education 415	3
Music 101	2	Elective	3
Art 101	2		
	<u>18</u>		<u>18</u>

Senior Year

First Semester	Hours	Second Semester	Hours
Business 301	3	Education 412	8
Philosophy 201	3	Distributive Education 456	4
Education 411	1	Distributive Education 458	4
Education 312	3		
Education 405	3		
Distributive Education 451	3		
	<u>16</u>		<u>16</u>

DISTRIBUTIVE EDUCATION

451. DISTRIBUTIVE EDUCATION 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.

456. ORGANIZATION AND ADMINISTRATION OF DISTRIBUTIVE EDUCATION. The philosophy and organization of a cooperative vocational program concerned with program objectives, structure and operation at local, state and national levels will be examined in depth. Also studied will be the influence of legislation on distributive education, areas of cooperation among teachers, administrators and the business community and working relationships of personnel. Credit, four hours.

458. COORDINATION METHODS IN DISTRIBUTIVE EDUCATION. Curriculum, methods and coordination of instruction from basic job to career development will be emphasized. The selection of students, methods of instruction and coordination techniques will also be stressed. Program promotion and development, evaluation and adjustment will be studied. Credit, four hours.

THE DEPARTMENT OF EDUCATION

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

The Department provides guidance and experience designed to help students to develop personally and professionally, helping them to gain both an appreciation and understanding of children and a sound philosophy of education.

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

CURRICULUM IN ELEMENTARY EDUCATION

Freshman Year

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

Sophomore Year

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

Junior Year

First Semester	Hours	Second Semester	Hours
Education 301	3	Education 308	3
Education 303	3	Psychology 302	3
Music 201	2	Geography 101	3
Psychology 303	3	Art 201	2
Education 309	3	Education 302	3
Art 102A	2	Home Economics 314	3
	<hr/> 16		<hr/> 17

Senior Year

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

CURRICULUM IN EARLY CHILDHOOD EDUCATION

Freshman Year

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

Sophomore Year

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

Junior Year

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

Senior Year

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

EDUCATION

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

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

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

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

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

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

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

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

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

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

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

310. MODERN PRACTICES IN EARLY CHILDHOOD EDUCATION. Current trends and practices, instructional and resource material, methods and techniques in early childhood education. Observation of pre-school children. Credit, three hours.

312. TECHNIQUES IN AUDIO-VISUAL EDUCATION. A survey of various types of audio-visual materials and how they can be used by the

elementary and high school teacher. Methods of evaluating and preparing these materials are considered during the semester. One lecture and two laboratory periods per week. Prerequisites: Education 204 and Psychology 204. Credit, three hours.

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

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

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

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

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

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

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

406. THE JUNIOR HIGH SCHOOL. This course emphasizes the history and evolution of the junior high school as an institution in our culture.

Special attention is given to the organization and administration of high schools in representative communities today. Problems connected with planning, coordinating, directing, and reporting are considered. Credit, three hours.

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

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

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

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

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

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

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

413. TECHNIQUES AND PRINCIPLES OF TEACHING IN THE ELEMENTARY SCHOOLS. This course gives special attention to nature of the teacher-learning process where the elementary school child is concerned. The following areas are studied: the teacher's daily preparation; the teacher's role in cooperative planning; physical and psychological factors influencing learning; basis for constructing and using teaching devices; principles of growth influencing the organization of the elementary school. Prerequisites: Junior courses in methods. Credit, three hours.

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

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

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

THE DEPARTMENT OF ENGLISH

The role of the Department of English is threefold:

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

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

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

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

CURRICULUM IN ENGLISH

Freshman Year

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

Sophomore Year

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

Junior Year

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

Senior Year

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

CURRICULUM IN ENGLISH EDUCATION

Freshman Year

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

Sophomore Year

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

Junior Year

First Semester	Hours	Second Semester	Hours
English 311	3	English 305	3
English 306	3	Elective (English)	3
Elective (English)	2-3	English 307	3
Foreign Language 201	3	Foreign Language 202	3
Psychology 303	3	Psychology 305	3
Physical Education Elective (100 Level)	1	Education 302	3
	15-16		18

Senior Year

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

ENGLISH

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

HUMANITIES

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

THE DEPARTMENT OF FOREIGN LANGUAGES

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

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

CURRICULUM IN FOREIGN LANGUAGES

Freshman Year

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

Sophomore Year

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

Junior Year

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

Senior Year

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

FRENCH

101-102. ELEMENTARY FRENCH. An intensive oral-aural approach to French for students with no previous training in the language. Abundant practice in hearing, understanding and speaking French is provided with basic grammar integrated into the learning process. Students are required to put in at least two hours per week in the language laboratory. These hours may vary according to their schedule. 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. Students are required to put in at least two hours per week in the language laboratory. These hours may vary according to their schedule. 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 develop-

ment 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.

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. Students are required to put in at least two hours per week in the language laboratory. These hours may vary according to their schedule. 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. Students are required to put in at least two hours per week in the language laboratory. These hours may vary according to their schedule. Prerequisites: German 101-102 or the satisfactory completion of a standard examination covering Elementary German. Credit, six hours.

301-302. HISTORY OF GERMAN LITERATURE. A survey of German literature from its beginnings to the present time. Representative selections from each period will be read and discussed. Lectures and readings will also include the development and effects of allied movements in other European countries. Class conducted in English and German. Prerequisites: 12 semester hours of German. Credit, six hours.

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

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

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

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

SPANISH

101-102. ELEMENTARY SPANISH. A course for beginners designed to develop aural ability, oral facility, and reading comprehension. Students are required to put in at least two hours per week in the language laboratory. These hours may vary according to their schedule. Credit, six hours.

201-202. INTERMEDIATE SPANISH. Review of grammar and pronunciation. Reading of several texts of average difficulty. Students are required to put in at least two hours per week in the language laboratory. These hours may vary according to their schedule. Prerequisites: Spanish 101-102 or satisfactory completion of standard examination covering Elementary Spanish. Credit, six hours.

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

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

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

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

307-308. SPANISH LITERATURE OF THE GOLDEN AGE. A study of some of the representative authors of the sixteenth and seventeenth

centuries. Lectures, readings, and individual reports. Class conducted partly in Spanish. Prerequisites: Spanish 301-302 or their equivalent. Credit, six hours.

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

RUSSIAN

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

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

THE DEPARTMENT OF HEALTH AND PHYSICAL EDUCATION

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

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

CURRICULUM IN HEALTH AND PHYSICAL EDUCATION

Freshman Year

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

Sophomore Year

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

Junior Year

First Semester	Hours	Second Semester	Hours
Home Economics 301	3	Health Education 308	3
Physical Education 209	2	Psychology 204	3
Physical Education 301	1	Physical Education 302	1
Physical Education 303	3	Physical Education 310	3
Physical Education 315	1	Physical Education 312	3
Sociology 201	3	Physical Education 304	3
Physical Education 311	1	Physical Education 205	1
Physical Education 307	3		
	17		17

Senior Year

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

CURRICULUM FOR MEDICALLY ALLIED FIELDS

Freshman Year

First Semester	Hours	Second Semester	Hours
Education 101	1	Health Education 101	2
English 101	3	English 102	3
History 101	3	History 102	3
Mathematics 101	3	Mathematics 104	3
Chemistry 101	4	Chemistry 102	4
Physical Education 100	1	Physical Education Elective (100 Level)	1
	15		18

Sophomore Year

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

Junior Year

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

Senior Year

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

CURRICULUM IN HEALTH EDUCATION

Freshman Year

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

Sophomore Year

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

Junior Year

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

Senior Year

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

CURRICULUM FOR RECREATION

Freshman Year

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

Sophomore Year

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

Junior Year

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

Senior Year

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

HEALTH EDUCATION

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

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

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

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

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

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

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

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

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

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

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

PHYSICAL EDUCATION

100. PHYSICAL EDUCATION ORIENTATION. A course designed to orientate the student to the purposes of physical education. The course

will include appraisal of motor skills and fitness, health values, fundamental movements, sports appreciation and skill techniques in a team sport. Credit, one hour.

103. FUNDAMENTALS OF ANGLING. Skills, techniques and terminology of angling. Prerequisite: Physical Education 100. Credit one hour.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

THE DEPARTMENT OF HISTORY AND POLITICAL SCIENCE

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

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

For the major in history, twenty-seven (27) semester hours of credit are required (excluding History 101, 102, and 104). These must include: History 200 201, 202, and 404. In addition, the student must choose a minimum of fifteen hours total in Fields III and IV, completing at least six hours in each. Also, it is recommended that the student complete Political Science 103.

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

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

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

A. CURRICULUM IN HISTORY (NON-TEACHING)

Freshman Year

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

Sophomore Year

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

Junior Year

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

Senior Year

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

B. CURRICULUM IN HISTORY AND SOCIAL SCIENCES FOR TEACHING MAJORS

Freshman Year

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

Sophomore Year

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

Junior Year

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

Senior Year

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

GEOGRAPHY

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

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

HISTORY

General Education

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

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

I. Methodology

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

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

II. General History

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

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

204. **THE NEGRO IN AMERICA.** A survey of the history of the Negro in America. Emphasis will be placed on the activities of the Negro through the periods of American history from the earliest days to the present. Discussion of selected current problems relating to the American Negro will be included. Credit, three hours.

III. Advanced United States History

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

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

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

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

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

IV. Advanced Foreign History

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

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

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

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

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

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

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

POLITICAL SCIENCE

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

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

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

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

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

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

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

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

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

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

THE DEPARTMENT OF HOME ECONOMICS

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

The Department also guides prospective teachers in contributing to the education of youth so they are better able to meet present and future needs related to their emotional health, physical development, social growth, aptitudes, and ambitions. Finally, a basic foundation of knowledge which will enable the students to pursue careers in the many areas of home economics is given.

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

CURRICULUM IN HOME ECONOMICS

Freshman Year

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

Sophomore Year

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

Junior Year

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

Senior Year

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

CURRICULUM IN HOME ECONOMICS EDUCATION

Freshman Year

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

Sophomore Year

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

Junior Year

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

Senior Year

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

HOME ECONOMICS

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

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

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

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

203. **MEAL MANAGEMENT.** A study of nutritious meals for families of different income levels and management problems related to the family group. Comparison of commercially and home prepared foods and evaluation of grades and standards. Planning, preparing and serving foods for special occasions. One lecture and two laboratory periods per week. Credit, three hours.

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

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

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

303. **MANAGEMENT IN RELATIONSHIP TO HOME FURNISHING AND EQUIPMENT.** Selection, arrangement, use, and care of household equipment and supplies. Evaluation of construction of equipment as well as the procedures to be used in 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. Prerequisite: 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 COOKING. 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.

Thirty hours are required for a major in Mathematics of which at least twenty-four hours must be elected from courses numbered 200 or above to include Mathematics 201 and 202.

Twenty-one hours are required for a minor in Mathematics of which at least 15 hours must be elected from courses numbered 200 or above to include Mathematics 201 and 202.

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 100	1	Physical Education Elective (100 Level)	1
	15		16

*Students whose high school records indicate a mastery of material covered in Mathematics 101-104 may with the consent of the Department elect to take Mathematics 201-202.

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	4	Physics 202	4
Physical Education Elective (100 Level)	1	Physical Education Elective (100 Level)	1
	15	History 104	1
			16

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		
	18		17

Senior Year

First Semester	Hours	Second Semester	Hours
Elective (Mathematics)	3	Elective (Mathematics)	3
Electives	12	Electives	12
	15		15

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 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 or its equivalent. Credit, three hours.

105-106. MATHEMATICS FOR THE ELEMENTARY TEACHER. This course is designed to acquaint students, preparing to teach in the elementary school with the structure of the real number system and its subsystems. Content includes sets and elementary set operations; fundamental operations with natural numbers, fractions, decimal fractions, and sign numbers; prime and composite numbers; elementary algebra; applications; measurement and mathematical systems. 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 or its equivalent. 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 formal integration. Prerequisite: Mathematics 201. Credit, three hours.

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

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

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

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

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

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

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

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

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

403. METHODS OF TEACHING MATHEMATICS IN THE SECONDARY SCHOOLS. A study of the methods and materials used in teaching high school mathematics. Prerequisite: Mathematics 202. Credit, three hours.

411. ALGEBRAIC STRUCTURES I. A study of groups, rings, integral domain, fields and advanced topics in linear algebra. Prerequisites: Mathematics 202 and 302. Credit, three hours.

412. ALGEBRAIC STRUCTURES II. A continuation of Algebraic Structures I. Prerequisite: Mathematics 411. Credit, three hours.

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

THE DEPARTMENT OF MUSIC EDUCATION

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

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

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

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

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

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

CURRICULUM IN MUSIC EDUCATION

Freshman Year

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

Sophomore Year

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

Junior Year

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

Senior Year

First Semester	Hours	Second Semester	Hours
Education 411	1	Education 412	8
English 200	2	Music Education 304	3
Music Education 303	3	Music Education 410 or 413	3
Music Education 405	1	Music Education 406	1
Music Education 407	1	Music Education 408	1
Music Education 302	3	Music Education 416	1
Music Education 311	1		
Music Education 401	1		
Music Education 403	1		
Music Education 415	1		
Music Education 314	1		
	16		17

MUSIC EDUCATION

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

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

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

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

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

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

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

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

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

202. PUBLIC SCHOOL MUSIC-METHODS AND MATERIALS. A study of the child's singing voice in the primary and intermediate grades, matching tones, the treatment of monotones, methods of presenting rote songs; methods of presenting rhythm through simple interpretation and

rhythm band. Introduction to note singing, and materials for the child's singing voice. Prerequisite: (Non-Music Major): Music 201. Credit three hours.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

THE DEPARTMENT OF PHILOSOPHY

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

For a minor in Philosophy, eighteen hours distributed as follows are required: Philosophy 201, 202, 204, 301 302, and a three-hour elective in Philosophy.

PHILOSOPHY

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

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

203. RELIGIONS OF MANKIND (Formerly Philosophy 202). A study of the origins, founders, and basic concepts of the major religions of

mankind. Designed to give the student an appreciation of the role of religion in the history of the world. Credit, three hours.

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

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

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

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

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

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

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

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

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

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

THE DEPARTMENT OF PHYSICS AND ASTRONOMY

The Department of Physics and Astronomy seeks to provide a thorough training in physics for the student desiring to prepare for a career as a physicist in industry and research laboratories or as a teacher of

physics in secondary schools. The Department also provides a major in physics with the courses required for graduate study. Course offerings are available to majors in other areas who wish supplemental training in specific aspects of physics.

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

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

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

CURRICULUM IN PHYSICS

Freshman Year

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

Sophomore Year

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

Junior Year

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

Senior Year

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

CURRICULUM IN PHYSICS FOR A TEACHING MAJOR

Freshman Year

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

Sophomore Year

First Semester	Hours	Second Semester	Hours
History 101	3	History 102	3
Humanities 20*	4	Humanities 202	4
Mathematics 201	3	Mathematics 202	3
Physical Education Elective (100 Level)	1	Physical Education Elective (100 Level)	1
Physics 201	4	Physics 202	4
Psychology 201	3	Psychology 204	3
	<hr/> 18		<hr/> 18

Junior Year

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

Senior Year

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

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

ASTRONOMY

101-102. **DESCRIPTIVE ASTRONOMY.** A qualitative description of the solar system. The development, position, motions and law of the planets. The second semester involves the nature of stars and galaxies. Two lectures and two-hours of laboratory per week. Credit, six hours.

201. **PRACTICAL ASTRONOMY.** Basic training in observation with a large telescope. Time and celestial co-ordinate determinations. Prepara-

tion and use of star charts and catalogues. Three lectures and three laboratory hours per week. Prerequisites: Mathematics 104; Chemistry 102 or Physics 202. Credit, four hours.

205. **PHOTOGRAPHY AND PHOTOMETRY.** Fundamentals of latent images, optical systems and methods, principles and applications of radiation detectors. Photoelectric and photographic photometry. An introduction to spectrophotometry. Two lectures and four laboratory hours per week. Prerequisite: Physics 202 or consent of instructor. Credit, four hours.

301. **CELESTIAL MECHANICS.** Application of the laws of motion to satellites, planets, and stars. The two-, three-, and many body problems. Orbits and their perturbations. Lunar theory: tides and precession. Three lectures per week. Prerequisites: Mathematics 206; Physics 302. Credit, three hours.

302. **ASTROPHYSICS.** The laws of radiation are applied to stars and nebulae to determine color classifications, temperatures, and luminosities. Spectrum analysis; constitution of stars and interstellar matter. Three lectures per week. Prerequisite: Physics 303. Credit, three hours.

PHYSICAL SCIENCE

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

PHYSICS

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

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

301-302. **PHYSICAL MECHANICS.** An intermediate course covering the mechanics of fluids, a particle and systems of particles, rigid bodies, constrained motion and oscillations. An introduction to generalized co-

ordinates and Lagrange's Equations, Hamilton's Principle and Canonical Equations. Relativistic and wave mechanics is also considered. The vector method is emphasized. Three lectures and demonstrations per week. Prerequisites: Mathematics 201-202; Physics 201-202. Credit, six hours.

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

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

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

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

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

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

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

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

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

THE DEPARTMENT OF PSYCHOLOGY

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

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

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

CURRICULUM IN PSYCHOLOGY

Freshman Year

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

Sophomore Year

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

Junior Year

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

Senior Year

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

PSYCHOLOGY

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

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

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

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

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

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

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

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

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

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

308. PERSONALITY. Primary emphasis in this course is given to theories of personality and the assessment of personality. Freud's Psycho-analytic theory, Jung's Analytic, Murray's Biosocial Theory and Social Psychological theories are among some of the theories discussed. Credit, three hours.

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

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

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

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

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

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

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

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

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

422. HISTORY AND SYSTEMS OF PSYCHOLOGY. A course covering the history of current viewpoints with emphasis on behaviorism, functionalism, gestalt psychology, and psychoanalysis. Designed primarily for students with considerable work in psychology. Prerequisites: Psychology 207, 400 and 413. Credit, three hours.

423. ADVANCED STATISTICS. A course covering simple and complex analyses of variance, correlational analyses and non-parametric statistics. Prerequisite: Psychology 302. Credit, three hours.

THE DEPARTMENT OF SOCIOLOGY AND ANTHROPOLOGY

The Department of Sociology and Anthropology offers a selection of courses devoted to the scientific study of human society. It offers students opportunities for developing the central core of a liberal education program and for preparing for entrance to graduate school and the school of social work. The Department also provides service courses for students majoring in other areas.

For a major in Sociology, thirty hours including the following are required: Sociology 201, 202, 203, 308, 401, 405, and 408.

CURRICULUM IN SOCIOLOGY

Freshman Year

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

Sophomore Year

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

Junior Year

First Semester	Hours	Second Semester	Hours
History 201	3	History 202	3
Foreign Language 201	3	Foreign Language 202	3
Sociology 303	3	Sociology 308	3
Electives	6	Electives	6
	15		15

Senior Year

First Semester	Hours	Second Semester	Hours
Sociology 401	3	Sociology 408	3
Sociology 405	3	Electives	12
Electives	9		
	15		15

SOCIOLOGY

201. INTRODUCTION TO SOCIOLOGY. Devoted to description and analysis of group life and to the development of a systematic conceptual framework. Credit, three hours.

202. SOCIAL DEVIATION. A sociological study of selected social problems, such as crime, juvenile delinquency, and alcoholism. Prerequisite: Sociology 201. Credit, three hours.

205. ANTHROPOLOGY. An introductory course. Surveys records of the emergence and development of man. Major emphasis is placed upon the development of culture. Credit, three hours.

301. JUVENILE DELINQUENCY. The delinquency problem. Factors associated with delinquency. Preventive measures. Rehabilitation. Prerequisites: Sociology 201 and 202. Credit, three hours.

302. RURAL SOCIOLOGY. The development of rural society in the United States. Analysis of change in rural society since World War II. Credit, three hours.

303. CULTURE, SOCIETY AND PERSONALITY. An intensive study of the factors and processes which shape the individual to group life. Prerequisites: Sociology 201 and 202. Credit, three hours.

304. RACE RELATIONS. A study of the basic nature of interracial relations. Analyzes problems connected with the larger minority groups in the United States. Prerequisite: Sociology 201. Credit, three hours.

305. URBAN SOCIOLOGY. The ecology, social processes, organization, and problems of the urban community. Recent developments are emphasized. Prerequisite: Sociology 201. Credit, three hours.

308. CRIMINOLOGY. The nature and extent of crime in the United States; theories of crime; problems of rehabilitation. Prerequisites: Sociology 201 and 202. Credit, three hours.

309. **LEADERSHIP AND RECREATION.** An attempt to meet the need for theoretical and practical preparation for work with children and youth. Social and psychological backgrounds of recreational problems; needs at different development levels; program building. Prerequisite: Sociology 201. Credit, three hours.

310. **SOCIAL STRATIFICATION.** Analysis of stratification theories and of major empirical researches in the area. Considers effects of social stratification in the United States. Prerequisite: Sociology 201, 202, 303, and junior or senior standing. Credit, three hours.

401. **THE FAMILY.** Historical evolution of the family; family structures and functions; current changes and problems. Prerequisites: Sociology 201, 202, and senior standing. Credit, three hours.

402. **COURTSHIP AND MARRIAGE.** Undertakes to develop knowledge, understanding, and attitudes which will enable youth to experience courtship and marriage constructively. Prerequisite: Sociology 201 and 202. Credit, three hours.

405. **THE FIELD OF SOCIAL WORK.** A systematic presentation of the major areas with an introduction to their general problems and techniques. Prerequisites: Sociology 201 and senior standing. Credit, three hours.

408. **SOCIOLOGICAL THEORIES.** Description and critical study of the more important sociological theories of the nineteenth and twentieth centuries. Prerequisites: Sociology 201 and senior standing. Credit, three hours.

412. **METHODS OF RESEARCH IN SOCIOLOGY.** An introduction to research problems, design, and procedures in sociology. Prerequisites: Sociology 201, 202, 303, and senior standing. Credit, three hours.

MILITARY SCIENCE

The objective of this course is to enable eligible students to remain in college and earn the Army rank of Second Lieutenant while retiring their military obligation.

Freshman Year

First Semester	Hours None	Second Semester	Hours None
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Sophomore Year

First Semester	Hours None	Second Semester	Hours
		Indoctrination	2
		Military Courtesy and Customs ..	2
		Military Justice	1
		Maintenance and Cost Conscious-	
		ness	1
		Drills and Ceremonies	5
		Field Sanitation and Personal Hy-	
		giene	1
		First Aid	2
		CBR and Atomic Warfare Indoc-	
		trination	2
		Guard Duty	2

Members will receive 10 weeks instruction in Basic Combat Training during the summer months at an active Army Installation.

Junior Year

First Semester	Hours	Second Semester	Hours
Orientation	2	Inspections	5
Study Methods	2	Methods of Instruction	20
Military Leadership	16	Associate Arms	17
Drill and Command	18	Use of the Compass	2
Organization of ROAD Division ..	6	Communications	10
Inspection	4	Weapons Training	14
Map and Aerial Photo Reading ...	10		
	58		68

Senior Year

First Semester	Hours	Second Semester	Hours
Infantry Division	5	Signal Communications	15
Methods of Instruction	20	Basic Medical Subjects, Intelli-	
Administration and Logistics	16	gence, Combat Orders	16
Military Law	5	Motor Vehicle Operation	5
		Associate Arms	10
	46		46

Two-week summer period on campus immediately following graduation. Students who successfully complete this course will be appointed as Second Lieutenant on the last day of this period.

FIRST WEEK		SECOND WEEK	
Subject	Hours	Subject	Hours
Operation of US Property and Fis-		Small Unit Tactics	34
cal Office	4		
Customs of the Service	1		
Efficiency Reports	2		
Enlistment and Military Obligation	2		
Class A Agent Finance	1		
Career Management	2		
Small Unit Tactics	23		
	35		34

INDOCTRINATION. An introduction and explanation of the conduct of Stages I and II of the Delaware National Guard Preparatory Course. Policies, procedures and areas of responsibility are reviewed in detail.

MILITARY COURTESY AND CUSTOMS. Conference which includes the customs of the service, proper conduct and individual responsibilities and obligations.

MILITARY JUSTICE. Conference covering the rights of the individual with respect to the provision of the Uniform Code of Military Justice.

MAINTENANCE AND COST CONSCIOUSNESS. Command responsibility for supply and resupply economy including a discussion of procedure for accomplishing proper care, preservation and conservation of clothing and equipment. Preventive maintenance, sources of maintenance information, and the need for continuing emphasis on cost consciousness.

FIELD SANITATION AND PERSONAL HYGIENE. The control of communicable disease through the use of improvised practical devices for water disposal, personal hygiene, water purification, and insect and rodent control and the prevention of nonbattle casualties.

FIRST AID. The importance of complete, realistic and continuous training in first aid, with emphasis on the use of field expedients to preserve life on the battle field under conventional, unconventional warfare.

CHEMICAL, BIOLOGICAL, RADIOLOGICAL AND ATOMIC WARFARE. Individual protection against CBR operations. Field decontamination procedures, medical and biological effects of nuclear weapons on personnel and the responsibilities of the commander for training in those areas.

GUARD DUTY. Purpose, duties and responsibilities of individuals concerned with guard duty. This period will consist of a conference and demonstration.

ORIENTATION. Conference covering the Standing Operating Procedures, policies and conduct of Stages III through VII of the Delaware National Guard Academy Officer Candidate School Preparatory Course and Officer Candidate School in non-ROTC Colleges.

STUDY METHODS. Explanation of the proper methods of study to insure maximum retention of material presented.

MILITARY LEADERSHIP. Concept of military leadership, problems of command and human behavior.

DRILL AND COMMAND. Conference and practical exercises on the subjects outlined in Army Field Manual 22-5 which includes the school of the soldier with and without his weapon and emphasis on development of a command voice.

ORGANIZATION OF ROAD DIVISION. The study of the squad, platoon and company structure within the Infantry, Armored, Mechanized and Airborne Divisions.

INSPECTIONS. Conferences and practical exercises in the proper procedure for conducting or participating in formal "in-ranks" inspections.

MAP AND AERIAL PHOTOGRAPH READING. Fundamentals and theory of map reading, land and night navigation, aerial photograph reading.

METHODS OF INSTRUCTION. Introduction to methods of instruction. Conferences on the various stages of preparation and instruction. Practical demonstration by each student.

ASSOCIATE ARMS. Conferences on combat and service branches of the Army to include Infantry, Armor, Artillery, Engineer, Orientation on Army Aviation and Special Forces.

USE OF THE COMPASS. Conference and practical exercise on the use of the lensatic compass.

COMMUNICATIONS. Conference and practical exercise in radio-telephone procedure, portable radio sets, wire communication, and a general study of infantry radio sets.

HONORS PROGRAM

The Honors Program is conducted under the supervision of the Honors Council and the Director of the Program. The purposes of the Honors Program are to identify students with superior ability and potential, liberate them from requirements which limit their best development, and stimulate them to creative and critical thinking.

The program combines three elements, colloquia, seminars, and special departmental study and research.

511-512. **FRESHMAN COLLOQUIUM.** Interdisciplinary study and discussion based upon required reading in primary sources. Specific content determined periodically by the Honors Council. One two-hour meeting per week for a full academic year. Credit, four hours per year or two credits per semester.

521-522. **SOPHOMORE COLLOQUIUM.** See Honors 511-512.

531-532. **JUNIOR-SENIOR COLLOQUIUM.** See Honors 511-512.

541-542. **JUNIOR-SENIOR COLLOQUIUM.** See Honors 511-512.

551-559. **HONORS SEMINAR.** In-depth study in selected topics offered within individual departments for Honors students who are not majors in the particular field. Two seminars offered during Fall semester; one offered during Spring Semester. Prerequisite: Sophomore standing and above or written permission of adviser. Credit, three hours per semester each.

DEPARTMENTAL SCHOLARS. Departmental scholars are selected by each department, and each scholar's program is arranged by his adviser with the approval of the department. A formal, written report of the work performed must be presented and accepted in order to receive credit. Prerequisite: a 3.25 cumulative average and approval of the Scholarship Committee.

STUDENT ROSTER

CANDIDATES FOR THE DEGREE OF BACHELOR OF ARTS

Name	Major Field
Mary Agnes Benson	English
Stephanie Christine Brown	English
Delores C. Caveness	English
Barbara Wafford de Grasse	French
Robert Rodman Edmunds	History
Victoria Stewart Govatos	English
Kenneth Larry Grose	History
Frederica Gladys Hall	History
Benjamin Earl Hammonds	Sociology
Doris Fletcher Hammonds	Sociology
Robert Jackson	History
Henry Grady James, III	History
Stephen Archer Mascoll	History
Beverly Pritchett Matthews	English
Moltraze Sammy Miller	History
Joyce Elaine Mitchell	Sociology
William Edward Moseley, Jr.	Sociology
Bernard Kithuka Ndambuki, I	History
Peter Govan Parham	History
Carolyn Veronica Rickards	Sociology
Douglas Milton Ridley	Sociology
Hazel Jarmon Showell	English
Reginald Henry Sims	Sociology
Bernice Bynum Smaw	English
Ronald Batson Thompson	Sociology
Natalei Patricia Whatley	Sociology
Doretha Cadelle Wilder	English
Jacquelyn Marlin Wright	English
Ada Ellen Young	Sociology

CANDIDATES FOR THE DEGREE OF BACHELOR OF SCIENCE

Name	Major Field
Cassandra Alexander	Health and Physical Education
Ernest Leslie Anderson	Health and Physical Education
Mabel Harris Batten	Elementary Education
Robert Henry Benson	Economics
Lamont Ronald Bethea	Business Administration
Byron Willard Bilton	Business Administration
Ruth Ann Blackshear	Music Education
Jane Elizabeth Braxton	Elementary Education

CANDIDATES FOR THE DEGREE OF BACHELOR OF SCIENCE

(Continued)

Name	Major Field
Merle Clayton Brooks	Business Administration
Joyce Faye Burris	Psychology
Andrew Burton	Elementary Education
Cheryl Ann Butler	Health and Physical Education
Lina Elizabeth Bynum	Business Education
Anna Lee Carter	Elementary Education
John David Chippie	Business Administration
Kenneth Clark	Elementary Education
Mary Louise Clark	Health and Physical Education
Joseph Levin Collins	Biology
Michael John Conroy	Health and Physical Education
James Wesly Cooper	Economics
Charles Willis Coursey	Agriculture
Alphonso Ralph Coverdale	Business Administration
Donald Edgar Davis	Agriculture Education
Frederick William Dewey, Jr.	Elementary Education
Gwendolyn Harvey Dorman	Elementary Education
Brian William Dorsey	Business Administration
Mary Ann Elzie	Elementary Education
John Faison	Biology
Jackqueline Nesbitt Francis	Business Administration
Jeanetta Gaines	Business Administration
William Vernon Gibson	Business Administration
John Lewis Gilbert, Jr.	Business Administration
Clayton Grier	Health and Physical Education
Marvin Kenneth Hackett	Business Administration
Vivian Patricia Hall	Elementary Education
Gregory Lee Harmon	Elementary Education
Geraldine Hobbs	Secretarial Science
Mary Frances Holloman	Home Economics Education
Donald Gregory Holt	Business Administration
Carl Lester Homan	Economics
Carol Ann Horsey	Elementary Education
Ronald Brete Horton	Business Administration
Alonzo Thomas Hunter	Biology
Wanda Elizabeth Hyland	Business Education
Sylvia Irene Ingram	Elementary Education
Robert Severson Jackson	Business Administration
Robert Stenton Jackson	Biology
David Johnson	Health and Physical Education
Isabel Louise Johnson	Psychology
James H. Johnson	Mathematics

CANDIDATES FOR THE DEGREE OF BACHELOR OF SCIENCE

(Continued)

Name	Major Field
Roosevelt Johnson	Business Education
Mary Lou Joseph	Business Education
Juanita Marie Joyner	Home Economics Education
Isaac Androus Keaton	Business Administration
Bobby Eugene Kelley	Mathematics
Lorraine Dawn Kent	Business Education
Gerald Brinton Lane	Spanish
Mitchell Franklin Lane	Business Administration
Paula Florice LeCompte	Elementary Education
Nancy Grant Lewis	Elementary Education
James Joseph Lobo	Secretarial Science
Margarte Logan	Business Education
Paul Arnold Loper	Elementary Education
Ben Frank Martin	Business Administration
Charles Martin	Health and Physical Education
Louise Alberta Maull	Business Education
Claude William McCrea	Business Administration
Virginia Nickens Merritt	Business Education
Jacquelyn Marie Mitchell	Health and Physical Education
Francina Maria Mondine	Art Education
Purnell Alfred Moody	Elementary Education
Kenneth Davis Moore	Business Administration
Martha Daniels Myers	Elementary Education
Albert Eugene Pettyjohn	Business Administration
Saundra Saffrone Pettyjohn	Mathematics
Ethel Mae Ricketts	Business Education
Joyce Creighton Riley	Elementary Education
Roger Leroy Riley	Business Education
Patrick Lee Rissmiller	Physics
Mildred Lois Roy	Elementary Education
John Rush	Business Administration
Juanita Louise Sampson	Business Education
Frankye Wilson Satchell	Elementary Education
Ronald Lee Sayers	Business Administration
Robert Paul Schanberger	Business Administration
James Oresets Sevast	Music Education
Tyrone Randolph Seymour	Elementary Education
Thomasonia Eileen Skipwith	Home Economics Education
Darryl Michael Smaw	Music Education
Evelyn Florenctina Smith	Elementary Education
Patricia Arness Staples	Business Administration
Jeanel Loretta Starling	Elementary Education

SENIORS (Continued)

Name	Major Field	City and State
Horsey Carol	Elementary Education	Wilmington, Delaware
Horton, Ronald	Business Administration	Washington, D.C.
Howard, Emma	Elementary Education	Wilmington, Delaware
Huff, Mary	Business Education	Wilmington, Delaware
Hunter, Alonzo	Biology	Trenton, New Jersey
Hyland, Wanda	Business Education	Laurel, Delaware
Ingram, Sylvia	Elementary Education	Milford, Delaware
Jackson, Robert	History	Bridgeville, Delaware
Jackson, Robert Se.	Business Administration	Wilmington, Del.
Jackson, Robert St.	Biology	Atlantic City, New Jersey
James, H. Grady	History	East Orange, New Jersey
Johnson, David	H. & P. Education	Newburgh, New York
Johnson, Evangeline	Sociology	Baltimore, Maryland
Johnson, Isabel	Psychology	Philadelphia, Pennsylvania
Johnson, James	Mathematics	Wilmington, Delaware
Johnson, Roosevelt	Business Education	Webster, Florida
Joseph, Mary Lou	Business Education	Smyrna, Delaware
Joyner, Juanita	Home Economics Education	East Orange, N.J.
Keaton, Isaac	Business Administration	Washington, D.C.
Kelley, Bobby	Mathematics	Frankford, Delaware
Kent, Lorraine	Business Education	Wilmington, Delaware
Lane, Gerald	Spanish	Wilmington, Delaware
Lane, M. Franklin	Business Administration	Wilmington, Del.
Langrell, Robert	Elementary Education	Smyrna, Delaware
Laval, Tyrone	Elementary Education	Patterson, New Jersey
Learman, Jane	Sociology	Chestertown, Maryland
LeCompte, Paula	Elementary Education	Chester, Pennsylvania
Lewis, Nancy	Elementary Education	Dover, Delaware
Lobo, James	Secretarial Science	Harrington, Delaware
Logan, Margaret	Business Education	Philadelphia, Pa.
Loper, Paul	Elementary Education	Wilmington, Delaware
Martin, Ben	Business Administration	Wilmington, Del.
Martin, Charles	H. & P. Education	St. Albans, L.I., New York
Mascoll, Stephen	History	Cambridge, Massachusetts
Matthews, Beverly	English	Wilmington, Delaware
Maull, Louise	Business Education	Lewes, Delaware
Maurer, Vera	Sociology	Rehoboth, Delaware
McCants, Tommie	Business Administration	Wilmington, Del.
McCrea, Claude	Business Administration	Lincoln, Delaware
McLaughlin, Peter	Natural Resources	Dover, Delaware
Melda, Frani	Elementary Education	Smyrna, Delaware
Mikell, Stanley	Art Education	Camden, Delaware
Miller, Moltraze	History	Wilmington, Delaware
Mitchell, Jacqueline	H. & P. Education	Coatesville, Pennsylvania

SENIORS (Continued)

Name	Major Field	City and State
Mitchell, Joyce	Sociology	Philadelphia, Pennsylvania
Mitchell, Judith	Elementary Education	Washington, Pa.
Mitchell, Samuel	English	Perth Amboy, New Jersey
Mondine, Francia	Art Education	Washington, D.C.
Moody, Purnell	Elementary Education	Wilmington, Delaware
Moore, Kenneth	Business Administration	Dover, Delaware
Moore, Stephanie	Elementary Education	Baltimore, Maryland
Morris, Richard	H. & P. Education	Houston, Delaware
Moseley, William	Sociology	Washington, D.C.
Myers, Martha	Elementary Education	Dover, Delaware
Ndambuki, Bernard	History	Detroit, Michigan
Nsubuga, Frederick	Chemistry	Philadelphia, Pennsylvania
Oliver, Carolyn	Elementary Education	Georgetown, Delaware
Parham, Peter	History	Roxbury, Massachusetts
Parker, Carlton	Sociology	Wilmington, Delaware
Parsa, Zohreh	Physics	Tehran, Iran
Paskins, Wayne	Elementary Education	Rehoboth, Delaware
Perry, Rosemary	Elementary Education	Wilmington, Delaware
Pettyjohn, Albert	Business Administration	Ellendale, Pa.
Pettyjohn, Sandra	Mathematics	Lincoln, Delaware
Pinkney, Henry	Art Education	Upper Marlboro, Maryland
Pippin, James	Elementary Education	Dover, Delaware
Pizzadili, Giovan	Business Administration	Felton, Delaware
Pizzadli, Giovanni	Mathematics	Felton, Delaware
Randolph, Patricia	Biology	Wilmington, Delaware
Rice, Alta S.	Elementary Education	Harrington, Delaware
Rickards, Carolyn	Sociology	Greenwood, Delaware
Ricketts, Ethel	Business Education	Seaford, Delaware
Ridley, Douglas	Sociology	Cheswold, Delaware
Riley, Joyce	Elementary Education	Smyrna, Delaware
Riley, Roger	Business Education	Philadelphia, Pa.
Rissmiller, Patrick	Physics	Dover, Delaware
Roy, Mildred	Elementary Education	Wilmington, Delaware
Rush, John	Business Administration	Woodbury Hts., N.J.
Sampson, Juanita	Business Education	Philadelphia, Pa.
Satchell, Frankye	Elementary Education	Seaford, Delaware
Sayers, Ronald	Business Administration	Smyrna, Delaware
Schanberger, Robert	Business Administration	Dover, Delaware
Scurry, Andrea	Elementary Education	Bronx, New York
Sevast, James	Music Education	Seaford, Delaware
Seymour, Tyrone	Elementary Education	Seaford, Delaware
Showell, Hazel	English	Milford, Delaware
Sims, Reginald	Sociology	Wilmington, Delaware
Skipwith, Thomasonia	Home Economics Education	Philadelphia, Pa.

SENIORS (Continued)

Name	Major Field	City and State
Smaw, Bernice	English	Philadelphia, Pennsylvania
Smaw, Darryl	Music Education	Philadelphia, Pennsylvania
Smith, Evelyn	Elementary Education	Millsboro, Delaware
Staples, Patricia	Business Administration	Wilmington, Del.
Starling, Jeanel	Elementary Education	Lincoln, Delaware
Street, Purcell	Music Education	Wilmington, Delaware
Sudler, Victorine	Biology	Dover, Delaware
Summers, Lloyd	Biology	Middleton, Delaware
Tate, John	Elementary Education	Wilmington, Delaware
Tate, Leroy	Business Administration	Wilmington, Del.
Taylor, Jerome	History	Philadelphia, Pennsylvania
Taylor, N. Eloise	Home Economics Education	Philadelphia, Pa.
Thomas, Cheryl	Business Education	Atlantic City, New Jersey
Thomas, Martha	Business Education	Harrington, Delaware
Thompson, Ronald	Sociology	Wilmington, Delaware
Trott, Peggyann	Mathematics	Georgetown, Delaware
Tyre, Kendall	Business Administration	Frankford, Delaware
Vickers, Mildred	Home Economics Education	Ellendale, Pa.
Vincent, Jennifer	History	Wilmington, Delaware
Voughs, Ronald	Business Administration	Cherry Hill, N. J.
Waples, Jean	Elementary Education	Ellendale, Pa.
Watson, Elizabeth	Business Education	Wyoming, Delaware
Whatley, Natalie	Sociology	Atlanta, Georgia
White, Marion	Elementary Education	Philadelphia, Pa.
Wilder, Doretha	English	Aliceville, Alabama
Wilkerson, Romaine	Business Education	Dover, Delaware
Williams, Billy	Business Administration	New Castle, Del.
Williams, Jacquelyn	H. & P. Education	Wilmington, Delaware
Williams, James E.	Elementary Education	Ellendale, Pa.
Williams, Patricia A.	Elementary Education	Dover, Delaware
Wilson, Jennifer	Elementary Education	Newark, Delaware
Wright, Howard	History	Lewes, Delaware
Wright, Jacqueline	English	Wilmington, Delaware
Wright, Jeanette	Elementary Education	Bridgeton, New Jersey
Young A. Ellen	Sociology	Lincoln, Delaware
Zaback, Charlotte	English	Dover, Delaware

JUNIORS

Name	Major Field	City and State
Adderley, Betty	Elementary Education	New Castle, Delaware
Anderson, John	Business Administration	Wilmington, Del.
Apostolina, Rosemary	Elementary Education	Dover, Delaware
Bailey, Deborah	Sociology	Wilmington, Delaware

JUNIORS (Continued)

Name	Major Field	City and State
Bailey, James T.	Business Administration	Dover, Delaware
Baker, Tyrone	Sociology	Philadelphia, Pennsylvania
Baldwin, Charmain	Secretarial Science	Chapel Hill, N. C.
Bennett, Armentha	Business Education	Laurel, Delaware
Bennett, William	Business Administration	Philadelphia, Pa.
Bennett, William J.	Elementary Education	Trevese, Pennsylvania
Blackshear, Charles	Sociology	Wilmington, Delaware
Bolden, Stephanie	Business Education	Wilmington, Delaware
Bowden, Wilbert	Chemistry	Seaford, Delaware
Branch, Isabella	Elementary Education	Middletown, Delaware
Briser, Gladys	Psychology	Wilmington, Delaware
Brooks, James	Elementary Education	Camden, New Jersey
Brown, David	Business Administration	Dorchester, Mass.
Brown, Doris	Art Education	Wyoming, Delaware
Brown, Robert M.	Business Administration	Hockessin, Delaware
Brown, William H.	Elementary Education	New Castle, Delaware
Bruce, Ethlyn	H. & P. Education	Coatesville, Pennsylvania
Bruce, Gullie	H. & P. Education	Coatesville, Pennsylvania
Burke, Eugene	Elementary Education	Dover, Delaware
Burks, Gregory	Business Administration	Smyrna, Delaware
Burton, Sandra	Sociology	Lewes Delaware
Carey, Stewart	H. & P. Education	Charlottesville, Virginia
Carney, Bobby Jean	Sociology	Felton, Delaware
Cephas, Charles	Business Administration	Wilmington, Del.
Chapman, Thomas	Elementary Education	Wilmington, Delaware
Chippie, Michael	Business Administration	Cheswold, Delaware
Clark, Charles	Biology	Millsboro, Delaware
Clark, Josephus	Elementary Education	Milford, Delaware
Clark, Theodis	Physical Education	Coatesville, Pennsylvania
Clendaniel, Lester	Mathematics	Wilmington, Delaware
Collins, Maynor	Mathematics	Houston, Delaware
Collins, Nancy	Business Administration	Dorchester, Mass.
Copes, Leonard	Elementary Education	Auburn, New York
Corbin, Shirley	Business Administration	Wilmington, Del.
Cornish, Ellsworth	Biology	Wilmington, Delaware
Cosby, Robert	H. & P. Education	Philadelphia, Pennsylvania
Crisden, Sherman	History	Wilmington, Delaware
Deeney, John	Business Administration	Milford, Delaware
DeWeese, C. Phillip	H. & P. Education	Elkton, Maryland
Dickerson, Cynthia	Elementary Education	Wilmington, Delaware
Dorsey, Margaret	Elementary Education	Wilmington, Delaware
Doughty, Rose	Elementary Education	Wilmington, Delaware
Draper, Richard	Business Administration	Felton, Delaware
Drummond, Henrietta	Elementary Education	Parksley, Virginia

JUNIORS (Continued)

Name	Major Field	City and State
Duffy, James	Business Administration	Rehoboth, Delaware
Duker, Timothy	Elementary Education	Milford, Delaware
Dupree, Anthony	Business Administration	Newark, New Jersey
Dutton, Elbert	Biology	Wilmington, Delaware
Dyson, Lynmore	Mathematics	Philadelphia, Pennsylvania
Edwards, Marionette	Business Education	Wilmington, Delaware
Evans, George E.	History	Wilmington, Delaware
Evans, Stanley	Business Administration	Woodbury, N. J.
Fifer, John	German	Dover, Delaware
Gardner, Edward	H. & P. Education	Allendale, South Carolina
Ghee, Carl	Spanish	Wenonah, New Jersey
Goerger, Richard	Agriculture	Felton, Delaware
Goerger, Robert	Agriculture	Felton, Delaware
Green, Robert	Elementary Education	Smyrna, Delaware
Grey, Daine	Psychology	Plainfield, New Jersey
Guy, H. Marie	Elementary Education	Wilmington, Delaware
Hall, Marian	Business Administration	Frankford, Del.
Haman, Donald	Elementary Education	Delaware City, Del.
Hammond, Charles	Elementary Education	Milford, Delaware
Harley, Eugene	H. & P. Education	Sewell, New Jersey
Harmon, Wardell	Sociology	Wilmington, Delaware
Harris, Brenda	Elementary Education	Brooklyn, New York
Haskins, Linda	English	Wilmington, Delaware
Hearn, Charles	Business Administration	Laurel, Delaware
Hedderich, Gerlinde	English	Dover, Delaware
Hickman, Preston	History	Wilmington, Delaware
Hickman, Sandra	Sociology	Windsor, Connecticut
Hicks, Clarence	Business Administration	Dover Delaware
Holland, John	H. & P. Education	Wilmington, Delaware
Holmes, Lionel	Biology	Willow Grove, Pennsylvania
Hopkins, Nathaniel	Physics	Millsboro, Delaware
Horse, Betty	Business Education	Wilmington, Delaware
Hubbard, Lester	Biology	Camden, New Jersey
Hunter, Gloria	Business Administration	Newark, New Jersey
Hurt, Robert	Sociology	Wilmington, Delaware
Hyland, Harvey	H. & P. Education	Laurel, Delaware
Hyland, Janice	Business Education	Laurel, Delaware
Jackson, Valerie	Business Education	Wilmington, Delaware
James, Doris	Home Economics Education	Washington, D.C.
James, Francine	Elementary Education	Newark, New Jersey
Jamison, Hedy	Psychology	Baltimore, Maryland
Jenkins, Jule	Mathematics	Seaford, Delaware
Jervey, Diane	Business Education	Wilmington, Delaware
Johns, Joyce	Elementary Education	Wilmington, Delaware

JUNIORS (Continued)

Name	Major Field	City and State
Johnson, Edward	Sociology	Brooklyn, New York
Jones, Shirley	H. & P. Education	Willow Grove, Pa.
Justison, John	Chemistry	New Castle, Delaware
Lane, Phillip	Psychology	Dover, Delaware
Lee, Judith	English	Dover, Delaware
Lee, Louis	H. & P. Education	Willow Grove, Pa.
Leecost, Patricia	Mathematics	Richmond, Virginia
Lewis, Joyce	H. & P. Education	Pemberton, New Jersey
Love, Charlene	Elementary Education	Atlantic City, N. J.
Magenta, George	Art Education	Dover, Delaware
Mahan, Connie	Secretarial Science	Ocean View, Delaware
Maloney, JoAnn	Elementary Education	Wilmington, Delaware
Marshall, Donald	Business Administration	Wilmington, Del.
Matthews, Clifton	Business Administration	Wilmington, Del.
McGarry, Robert	Business Administration	Dover, Delaware
McKinnon, Dorothy	English	Wilmington, Delaware
Meredith, George	Business Education	Montclair, New Jersey
Miller, Gloria	Business Education	Wilmington, Delaware
Minus, Judith	Elementary Education	Moorestown, N. J.
Mitchell, Beulah	Home Economics Education	Townsend, Del.
Mosley, Emma	Biology	Magnolia, Delaware
Murray, Willie	Elementary Education	Woodbury, N. J.
Newton, Joseph	History	Philadelphia, Pennsylvania
Nicholson, JoAnn	Psychology	Dover, Delaware
Norwood, Christina	Home Economics Education	Frankford, Del.
Oates, Linda	Business Education	Wilmington, Delaware
O'Neal, Shirley	Elementary Education	Philadelphia, Pa.
O'Rourke, Donald	Sociology	Townsend, Delaware
Parker, Estheda	Sociology	Milton, Delaware
Payne, Robert	Sociology	Wilmington, Delaware
Pinkett, Gilbert	Business Administration	New Castle, Del.
Piser, George	History	Smyrna, Delaware
Potts, Larry	Sociology	Smyrna, Delaware
Prettyman, James	Business Administration	Milton, Delaware
Price, Larry	Business Administration	Dover, Delaware
Pruden, Betty	Secretarial Science	Wilmington, Delaware
Reed, Iva	Elementary Education	Milford, Delaware
Roberts, Leander	History	Accomac, Virginia
Roberts, William	Business Administration	Dover, Delaware
Robinson, Barbara	Business Education	Smyrna, Delaware
Robinson, Harold	Art Education	Asbury Park, New Jersey
Ruben, Fred	H. & P. Education	Philadelphia, Pa.
Ruth, John	Recreation	Wilmington, Delaware
Rutter, Deborah	Elementary Education	Wilmington, Delaware

JUNIORS (Continued)

Name	Major Field	City and State
Saunders, Norris	History	Wilmington, Delaware
Scheibelhoffer, Kathy	Business Education	Dover, Delaware
Scott, Doris	Business Education	Felton, Delaware
Settle, Carolyn	French	Newark, Delaware
Severson, John	Business Administration	Dover, Delaware
Shahan, Joseph	Psychology	Frederica, Delaware
Shelton, William	Mathematics	Millsboro, Delaware
Shepard, Charles	Business Administration	Dover, Delaware
Sheppard, Richard	Psychology	Wilmington, Delaware
Short, Jewett	Business Administration	Wilmington, Del.
Showell, Gregory	History	Milford, Delaware
Smith, Gene	Elementary Education	Selbyville, Delaware
Smith, Helen	Business Education	Wilmington, Delaware
Smith, Irene	Business Education	Wilmington, Delaware
Sorden, Doris	Sociology	Wilmington, Delaware
Spencer, Cecelia	Elementary Education	Wilmington, Delaware
Spikes, Charles	Psychology	Elizabeth, New Jersey
Squirrel, Michael	H. & P. Education	Baltimore, Maryland
Stafford, Carol	Elementary Education	Wilmington, Delaware
Staples, Paulette	Elementary Education	Fieldale, Virginia
Stevenson, Lorraine	Business Education	Middletown, Delaware
Taylor, Mervin	Business Administration	Millsboro, Delaware
Thomas, Lauren	Elementary Education	Philadelphia, Pa.
Thomas, Lillian	Elementary Education	Wilmington, Delaware
Thomas, Priscilla	Home Economics Education	Wilmington, Del.
Toliver, Edith	Sociology	Bridgeville, Delaware
Torrence, Tanya	Sociology	Wilmington, Delaware
Udoka, Johnson	Business Administration	Eastern Nigeria
Walker, Ellis	H. & P. Education	Coatesville, Pennsylvania
Waples, Ella	Elementary Education	Millsboro, Delaware
Waters, Floyd	Music Education	Wilmington, Delaware
Watson, Nathaniel	Elementary Education	Newark, New Jersey
Watson, Reginald	History	Wilmington, Delaware
Watson, Robert Lee	Business Administration	Wilmington, Del.
Weaver, Patrick	Economics	Dover, Delaware
West, Cheryl	Elementary Education	Georgetown, Del.
White, Elliot	Elementary Education	New Brunswick, N. J.
White, John	Elementary Education	Dover, Delaware
Williams, Gertrude	Physics	Wyoming, Delaware
Winchester, Dwight	Business Administration	Wilmington, Del.
Woodard, Emory	History & Political Science	Wilmington, Del.
Woolsey, John	Elem. Education	Camden-Wyoming, Del.
Wright, Calvin	Business Administration	Philadelphia, Pa.
Wynder, William Jr.	Mathematics	Dover, Delaware

SOPHOMORES

Name	Major	City and State
Ames, Edward	Art Education	Paterson, New Jersey
Amos, Kent	Business Administration	Washington, D.C.
Arbogast, Harold	Business Administration	Smyrna, Delaware
Armstrong, John W.	Business Administration	Wilmington, Del.
Barckley, Matilda	Elementary Education	Nanticoke, Maryland
Batson, Shirley	Business Education	Seaford, Delaware
Baynard, Stephanie	Elementary Education	Wyoming, Delaware
Beachum, Shirley	Business Administration	Wilmington, Del.
Beasley, Leroy	Sociology	Cambridge, Maryland
Bee, Sylvester	Art Education	Buffalo, New York
Benner, Dawn	Elementary Education	Greenwood, Delaware
Benton, William	Natural Resources	Dover, Delaware
Betts, Alan	Business Administration	Dover, Delaware
Betts, Willard	Chemistry	Frederica, Delaware
Black, JoAnne	Elementary Education	Newark, New Jersey
Bouldin, Charles E.	Sociology	Brooklyn, New York
Bradford, Donald	Business Administration	Philadelphia, Pa.
Brown, Onega	English	Wilmington, Delaware
Burris, George P.	Sociology	Wilmington, Delaware
Butts, Theresa	Business Administration	Wilmington, Del.
Cademartori, Kenneth	History	Dover, Delaware
Cain, Lankford W.	Psychology	Marydel, Delaware
Calloway, Marlene	Elementary Education	Westville, New Jersey
Carpenter, Ruth	Elementary Education	Port Penn, Delaware
Carter, Barbara	Business Education	Dover, Delaware
Carter, Enoch	Business Administration	Wilmington, Del.
Carter, Gloria	Elementary Education	Philadelphia, Pa.
Carter, Toni	Psychology	McLean, Virginia
Chippie, Doris	Spanish	Cheswold, Delaware
Ciskey, Richard	History	Dover, Delaware
Clendaniel, James	Music Education	Milton, Delaware
Cline, Karen	Mathematics	Frederica, Delaware
Cohee, James	Business Administration	Felton, Delaware
Colbert, Maxine	H. & P. Education	Philadelphia, Pennsylvania
Cole, William	Business Administration	Dover, Delaware
Coleman, Cleo R.	English	Millsboro, Delaware
Coleman, Geraldine	Elementary Education	Seaford, Delaware
Coleman, Joyce	Business Education	Seaford, Delaware
Collins, Marvin	Business Administration	Philadelphia, Pa.
Connor, Donald P.	Chemistry	Wilmington, Delaware
Connor, James P.	Economics	Wilmington, Delaware
Crawford, JoAnne	French	Wilmington, Delaware
Dance, Sharolyn	Elementary Education	Plainfield, New Jersey
Davis, Audrey	Secretarial Science	Milford, Delaware

SOPHOMORES (Continued)

Name	Major Field	City and State
Day, Desi	Business Administration	Asbury Park, N. J.
DiSalvo, Joseph	Elem. Education	Camden-Wyoming, Del.
Donovan, Gladys	Elementary Education	Milford, Delaware
Dorman, Leland	Economics	Seaford, Delaware
Doughty, Susie	French	Frankford, Delaware
Downes, Jane	French	Dover, Delaware
Dunning, Charmaine	Med. Ald. Flds.	Lewes, Delaware
Durham, Melvin	Sociology	Bridgeton, New Jersey
Elzey, Myra	Business Education	Laurel, Delaware
Evans, Curtis	Business Administration	Bridgeville, Del.
Fellows, Marjorie	Sociology	Easton, Pennsylvania
Fields, Cheryl	Psychology	Wilmington, Delaware
Fisher, Mary	Sociology	Dover, Delaware
Fogg, Charity	Elementary Education	Seaford, Delaware
Frankfather, Brian	Art Education	Smyrna, Delaware
Frierson, Harvey	Sociology	New York, New York
Putrell, Melvin	Elementary Education	Newport News, Va.
Gates, Nancy	English	Milford, Delaware
Gibson, Walter	Business Administration	Dover, Delaware
Gillette, Margaret	Elementary Education	Dover, Delaware
Ginsburg, Harriet	Elementary Education	Dover, Delaware
Glass, Herman	Business Administration	Chester, Pa.
Gmuer, June	English	Dover, Delaware
Goldberg, Brian	History	Dover, Delaware
Graham, Renecia	Biology	Wilmington, Delaware
Greene, Brenda	Sociology	Millsboro, Delaware
Griffin, Arlene	English	Dover, Delaware
Griffin, Darryl	Business Administration	Dover, Delaware
Guy, Mary	Art Education	Cheswold, Delaware
Hackley, Maxine	Elementary Education	Camden, Delaware
Haddick, Harold	Mathematics	Dover, Delaware
Haines, James	H. & P. Education	Philadelphia, Pennsylvania
Hall, Joseph	Mathematics	Millsboro, Delaware
Hamadock, Joseph	Business Administration	Dover, Delaware
Harmon, Sherry	Mathematics	Frankford, Delaware
Harris, David	Business Administration	New Castle, Del.
Haugh, Robert	English	Delaware City, Delaware
Hawthorne, Robert	H. & P. Education	Baltimore, Maryland
Hearn, Alice	Elementary Education	Harrington, Delaware
Henderson, Anthony	Business Administration	Wilmington, Del.
Hennessy, John	Psychology	Newark, Delaware
Henry, Elva	English	Townsend, Delaware
Hickey, David	Business Administration	Dover, Delaware
Hill, Lee James	Elementary Education	Philadelphia Pa.

SOPHOMORES (Continued)

Name	Major Field	City and State
Hines, Gary	Business Administration	Wilmington, Del.
Holloway, Mercedes	Elementary Education	Wilmington, Delaware
Hood, Arthur	Chemistry	Philadelphia, Pennsylvania
Hopkins, Eric	Wild Life Mgmnt	Sudlersville, Maryland
Howell, Cheryl	History	Philadelphia, Pennsylvania
Hunter, Delores	Med. Ald. Flds.	Coatesville, Pennsylvania
Hynson, Theodore	Business Administration	Wilmington, Del.
Isele, Karl	Chemistry	Dover, Delaware
Jackson, Benjamin	Elementary Education	Dover, Delaware
Jackson, Sandra	Sociology	Wilmington, Delaware
Jacobs, Paulette	Business Administration	Wilmington, Del.
Johnson, Alan	Business Administration	Wilmington, Del.
Johnson, Althea	Business Administration	Wilmington, Del.
Johnson, Clifton	History	Richmond, Virginia
Johnson, Rose	Business Education	Delaware City, Delaware
Jones, Byarie	H. & P. Education	Steubenville, Ohio
Jordan, Freddie	English	Queens, New York
Kelly, Christopher	Mathematics	Dover, Delaware
Lakey, Stanley	Natural Resources	Delaware City, Delaware
Lane, Sheridan	Sociology	Wilmington, Delaware
Lewis, George	H. & P. Education	Baltimore, Maryland
Little, Agnes	Home Economics Education	Dover, Delaware
Livingston, Tyrone	Elementary Education	Wilmington, Delaware
Lloyd, Ronald	Elementary Education	Ardmore, Pennsylvania
Logan, Faquita	Business Education	Wilmington, Delaware
Logan, P. Regina	Business Education	Wilmington, Delaware
Maciarello, Elizabeth	Elementary Education	Dover, Delaware
Maciarello, John	Elementary Education	Dover, Delaware
Maciarello, Mary	Elementary Education	Dover, Delaware
Mackie, Walter	Mathematics	Dover, Delaware
Madric, Arthur	History	Wilmington, Delaware
Madric, Carolyn	Elementary Education	Wilmington, Delaware
Malone, Delores	French	Dover, Delaware
Marsh, Andrew	Business Administration	Dover, Delaware
Mast, Stuart	Sociology	Greenwood, Delaware
Matthews, Patricia	Psychology	Philadelphia, Pennsylvania
May, Victor	Business Administration	Dover, Delaware
Mays, Charles	Business Administration	Wilmington, Del.
McNeill, Patricia	Elementary Education	Wilmington, Delaware
Medzarenta, Haig S.	Elementary Education	Greenwood, Delaware
Melton, Toni	Business Education	Wilmington, Delaware
Merriitt, Philip	Psychology	Yonkers, New York
Milan, Herbert	Elementary Education	Atlantic City N. J.
Miller, George	Chemistry	New York, New York

SOPHOMORES (Continued)

Name	Major Field	City and State
Milligan, Edward	Business Administration	Trenton, New Jersey
Mills, Gary	Business Administration	New Brunswick, N.J.
Minus, Mary	Home Economics Education	Felton, Delaware
Moore, Joel	Psychology	New Castle, Delaware
Moore, Sharon	Elementary Education	Wilmington, Delaware
Morris, Yvonne	Elementary Education	Wilmington, Delaware
Moulder, Winston	Elementary Education	Atlanta, Georgia
Moyer, Reimund	History	Perth Amboy, New Jersey
Munson, Roy	H. & P. Education	Baltimore, Maryland
Nunn, Norma	Psychology	Dover, Delaware
Palmer, Constance	Home Economics Education	Seaford, Del.
Pendleton, Cheryl	Elementary Education	Dover, Delaware
Person, Richard	Biology	Dover, Delaware
Petrucchi, Evelyn	Elementary Education	Dover, Delaware
Petty, Eugene	Art Education	New Castle, Delaware
Pinkney, Gloria	Business Administration	Brandywine, Md.
Pridgen, Edythe	H. & P. Education	Wilmington, Delaware
Reible, Robert	Physics	Frederica, Delaware
Richards, John	Agriculture	Smyrna, Delaware
Roach, Evelyn	Elementary Education	Dover, Delaware
Roberts, Joseph	Business Administration	Wilmington, Del.
Rogers, Dennis	Sociology	Harrington, Delaware
Rolsal, Marlene	Business Education	Felton, Delaware
Ross, Tony	Elementary Education	Milford, Delaware
Roy, Marie	Psychology	Wilmington, Delaware
Rush, Geraldine	Spanish	Woodbury Heights, New Jersey
Salters, Edward	Business Administration	Lewes, Delaware
Saunders, Charles	Elementary Education	Wilmington, Delaware
Scott, Cecil	Business Administration	Lincoln, Delaware
Scott, Gregory	Sociology	Camden, Delaware
Sivels, Annie	Elementary Education	Ellendale, Pa.
Slay, Samuel	Business Administration	Philadelphia, Pa.
Smith, Valerie	Psychology	Newark, New Jersey
Sokoloff, Alan	Business Administration	Smyrna, Delaware
Speight, Dorothy	Business Education	Bridgeville, Delaware
Spencer, Cynthia	Chemistry	Wilmington, Delaware
Spikes, Lerah	English	Atlanta, Georgia
Sterling, Michael	H. & P. Education	Smyrna, Delaware
Stewart, William	Mathematics	Jersey City, New Jersey
Stoehr, Carolyn	Psychology	Wyoming, Delaware
Swiggett, Thomas	Business Administration	Smyrna, Delaware
Tate, Charles	Chemistry	Wilmington, Delaware
Taylor, Geraldine	Elem. Education	Westhampton Bch., L.I., N.Y.
Taylor, Shirley	Elementary Education	Millsboro, Delaware

SOPHOMORES (Continued)

Name	Major Field	City and State
Teague, Joyce	Home Economics Education	Portland Maine
Thomas, Carolyn	Business Education	Wilmington, Delaware
Tokley, James	English	Bridgeville, Delaware
Tolver, Betty	Psychology	Cinnaminson, New Jersey
Tue, Audrey	Business Education	Dover, Delaware
Wade, Oveta	Mathematics	Houston, Delaware
Walker, Willie	Business Administration	Brooklyn, New York
Waples, Charles	Chemistry	Millsboro, Delaware
Ward, Paul	H. & P. Education	Laurel, Delaware
Ward, Reginald	Business Administration	Wilmington, Del.
Welch, Gary	History	East Orange, New Jersey
Wharton, Eric	H. & P. Education	Philadelphia, Pennsylvania
Whetstone, Jessie	Business Administration	Newark, New Jersey
Whitaker, Juan	Business Administration	Philadelphia, Pa.
White, Cleveland	History	Wilmington, Delaware
Whitsett, Shirley	Elementary Education	Sharon Hills Pa.
Whye, William	Business Administration	Wilmington, Del.
Wilkins, Bernie	Business Administration	Wilmington, Del.
Williams, Dwight	History	Washington, D.C.
Williams, James V.	Business Administration	Wilmington, Del.
Williams, John	English	Dover, Delaware
Williamson, Donald	Physics	Wilmington, Delaware
Wilson, Joan	Business Administration	Wilmington, Del.
Winfield, Beverly	Business Education	Wilmington, Delaware
Winston, Delores	Elementary Education	Felton, Delaware
Wood, William	Business Administration	Harrington, Del.
Woodall, Julian	Business Administration	Clayton, Delaware
Young, Robert	Mathematics	Wilmington, Delaware

FRESHMEN

Name	Major Field	City and State
Abbott, Jesse	Mathematics	Georgetown, Delaware
Abbott, Roger	Business Administration	Milford, Delaware
Adams, Travis	Biology	New Castle, Delaware
Albury, George	History	Seaford, Delaware
Alford, Samuel	Business Administration	Milton, Delaware
Allen, Willie	Agriculture	Waterloo, Iowa
Al-Nakib, Ghassan	Physics	Washington, D.C.
Anderson, Harold	Physical Education	Mt. Holly, New Jersey
Anderson, Rebecca	Psychology	Dover, Delaware
Ascanio, Mary	Psychology	Smyrna, Delaware

FRESHMEN (Continued)

Name	Major Field	City and State
Attavian, Bruce	Biology	Smyrna, Delaware
Badger, Adlay	English	Laurel, Delaware
Bass, Mitchell	Business Administration	Steubenville, Ohio
Bassano, Louis	Business Administration	Dover, Delaware
Batson, Jaye	Business Education	Seaford, Delaware
Baxter, Elaine	Home Economics	Philadelphia, Pennsylvania
Bazemore, Gwendolyn	Sociology	Ellendale, Delaware
Beaman, John	Natural Resources	Dover, Delaware
Becton, Alex	Music Education	Lincoln, Delaware
Benjamin, William	History	Wilmington, Delaware
Bennett, Charles	Elementary Education	Atlanta, Georgia
Berry, Thomas	Business Administration	Felton, Delaware
Bethea, Burnell	Elementary Education	Washington, D.C.
Blackshear, Lieutenant	Art	Wilmington, Delaware
Blakey, Rosalind	Home Economics	Washington, D. C.
Bolognini, Nathan	Business Administration	Dover, Delaware
Boney, Willis	Business Education	Wilmington, Delaware
Boss, Henry	Business Administration	Dover, Delaware
Boyd, Gregory	Business Administration	Trenton, New Jersey
Brady, David	Business Administration	Dover, Delaware
Brooks, Cynthia	Psychology	Dover, Delaware
Brown, Barbara	Elementary Education	Seaford, Delaware
Brown, Cynthia	Psychology	Orange, New Jersey
Brown, Jimmy	Art	Smyrna, Delaware
Brown, Morris	Business Administration	Philadelphia, Pa.
Brown, Veronica	English	Laurel, Delaware
Browne, William D.	Music	Wilmington, Delaware
Browning, Beverly	Elementary Education	Wyoming, Delaware
Bruton, Conrad	Chemistry	Wilmington, Delaware
Burbage, Brenda	Business Education	Bridgeville, Delaware
Burbage, Charlene	Mathematics	Bridgeville, Delaware
Burris, Michael	Elementary Education	Seaford, Delaware
Burton, Derek	Chemistry	Wilmington, Delaware
Burton, Ridsen	Business Administration	Lewes, Delaware
Burton, Ronniere	Elementary Education	Wilmington, Delaware
Burton, Sharon	Music	Rehoboth, Delaware
Burwell, Joseph	Business Administration	Philadelphia, Pa.
Butler, Gary	Sociology	Wilmington, Delaware
Cahall, Carol	Physical Education	Dover, Delaware
Camper, Mary	Sociology	Cambridge, Maryland
Cannon, Franklin	History	Seaford, Delaware
Carey, Michael	History	Trenton, New Jersey
Carter, James E.	Business Administration	Wilmington, Del.
Carter, Susan	Physical Education	Dover, Delaware

FRESHMEN (Continued)

Name	Major Field	City and State
Casson, Della	Sociology	Wilmington, Delaware
Casson, Stephanie	Sociology	Dover, Delaware
Cephas, Rebecca M.	Elementary Education	Wilmington, Delaware
Childs, Clifford L.	Business Administration	Trenton, New Jersey
Clark, Cynthia	Elementary Education	New Castle, Delaware
Clark, Daniel	Business Administration	Frankford, Del.
Clark, Sharon	Elementary Education	Newark, New Jersey
Collick, Barbara	Elementary Education	Lewes, Delaware
Conner, William	Mathematics	Philadelphia, Pennsylvania
Connor, Jeffrey	Economics	Wilmington, Delaware
Cooper, Johnson	Business Education	Dover, Delaware
Coursey, Roberta	Elementary Education	Summit Bridge, Del.
Coverdale, Jacqueline	English	New Castle, Delaware
Currie, Robert William	Chemistry	Milford, Delaware
Czaplicki, Patricia	Business Education	Dover, Delaware
Dabney, Gloria	Home Economics	Little Plymouth, Virginia
Dancy, Vivian	Physical Education	Dover, Delaware
Davis, Ann L.	Elementary Education	Brooklyn, New York
Davis, Harriet	Business Education	Wilmington, Delaware
Davis, Larry	Elementary Education	Milford, Delaware
Davis, Steven	Physical Education	Lexington, Virginia
Davis, Vernon	Physical Education	Alton, Illinois
Debrick, Eleanor P.	Physical Education	Wilmington, Delaware
Debrick, Jacqueline	Business Education	Wilmington, Delaware
Demby, Carolyn	Business Administration	Smyrna, Delaware
Dennis, Leslie	Physical Education	Philadelphia, Pa.
Dillon, Robert	Biology	Dover, Delaware
Dix, Marcella	Elementary Education	Boston, Mass.
Dixon, Carlgene	Business Administration	Bridgeville, Del.
Dixon, Joyce	Sociology	Dover, Delaware
Dixon, Samuel	English	Wyoming, Delaware
Dobbins, Betty	Psychology	New York, New York
Driver, John	Business Administration	Marlboro, N. J.
Drummond, Charlotte	Health Education	Dover, Delaware
Dryden, Paul	Business Administration	Wilmington, Del.
Duffy, Frederick	Elementary Education	Milford, Delaware
Duffy, Lamonte	Business Administration	Lewes, Delaware
Duggan, Essie	Sociology	Dover, Delaware
Dunbar, Albert	Elementary Education	Felton, Delaware
East, Phillip	English	Dover, Delaware
Ellis, Joe Ann	History & Political Science	Washington, D.C.
Emeigh, Gary	Art Education	Smyrna, Delaware
Evans, George L.	Agriculture	Smyrna, Delaware
Falasco, William	Physical Education	Wyoming, Delaware

FRESHMEN (Continued)

Name	Major Field	City and State
Faulkner, Michael	Business Administration	Hanover, Maryland
Finney, Yolanda	Business Administration	Martinsville, Va.
Fletcher, Larry	Business Administration	Philadelphia, Pa.
Folsom, Maxine	Art Education	Newark, New Jersey
Foster, Gennette	History	Wilmington, Delaware
Foster, Nadine	Business Administration	Wilmington, Del.
Frazer, Karen	Art Education	Dover, Delaware
Gaines, Kevan	Business Administration	Delmar, Delaware
Gaines, Robert	Mathematics	Wilmington, Delaware
Garth, Jory	Business Education	New York, New York
Gay, Robert	Physical Education	Dayton, Ohio
Gilbert, Evon	Business Education	Dover, Delaware
Gillis, Juanita	Business Education	Smyrna, Delaware
Gladney, Helen	Elementary Education	New Castle, Delaware
Graham, Patricia	Sociology	Neptune, New Jersey
Gray, Johnny	Agriculture	Selbyville, Delaware
Greenhill, James	Physical Education	White Plains, New York
Griffith, Carol	English	Milford, Delaware
Grose, Jerome	Biology	Philadelphia, Pennsylvania
Hall, Weldon	Business Administration	Harbeson, Delaware
Hampton, Paul	Physical Education	Atlanta, Georgia
Hanby, Wayne	Physical Education	Wilmington, Delaware
Handy, Evon	History	Laurel, Delaware
Harmon, Harold	Business Administration	Dover, Delaware
Harmon, Ronald	Business Administration	Ellendale, Delaware
Harper, Eileen	English	Milford, Delaware
Harris, Chester G.	Art Education	Dover, Delaware
Harris, Deborah	Elementary Education	Harrington, Delaware
Harris, Edwin R.	Elementary Education	Milford, Delaware
Henry, Delores	Home Economics	Dover, Delaware
Henry, Linda	Home Economics	Wilmington, Delaware
Hetzell, Robert	Business Administration	Dover, Delaware
Hinton, Lionel	Agriculture	Ellendale, Delaware
Hodge, Joyce	Mathematics	Martinsville, Virginia
Hopkins, Elsie	Business Education	Wilmington, Delaware
Horan, Deborah	Physical Education	Dover, Delaware
Horn, Steven	Art Education	Newark, Delaware
Hubert, Barry	Business Administration	Dover, Delaware
Hudgens, Larry	Elementary Education	Philadelphia, Pa.
Hudson, Leonard	Business Administration	Washington, D.C.
Hughes, Maurice	Business Administration	Greenwood, Del.
Hunter, David	Psychology	Philadelphia, Pennsylvania
Hurt, Nathaniel	Music Education	Wilmington, Delaware
Jackson, Ardythe	Business Administration	Wilmington, Del.

FRESHMEN (Continued)

Name	Major Field	City and State
Jackson, Phillip	Physical Education	Lewes, Delaware
Jackson, Samuel	Physical Education	Newark, Delaware
James, Glenn	Business Administration	Gary, Indiana
James, Mamie	English	Newark, Delaware
James, Marshall	Elementary Education	White Plains, N. Y.
Jarmon, Carlotta	Business Administration	Frankford, Del.
Jarmon, Charles	Mathematics	Frankford, Delaware
Jarmon, Paulette	Elementary Education	Frankford, Delaware
Jefferson, Frank	Business Education	White Plains, N. Y.
Jenkins, Gerald	Chemistry	Boston, Massachusetts
Johnson, Emerson	Art Education	Smyrna, Delaware
Johnson, Gregory	Business Administration	Washington, D. C.
Johnson, John E.	History and Political Science	Dover, Delaware
Johnson, John L.	Business Administration	Dover, Delaware
Johnson, Richard	History	Wilmington, Delaware
Johnson, Yvonne	Business Administration	Wilmington, Delaware
Jones, Mitchell	Music	Dover, Delaware
Jones, Rita	Sociology	Lincoln, Delaware
Jordan, Richard	Business Administration	Philadelphia, Pa.
Jump, Donald	Biology	Dover, Delaware
Kearns, John Jr.	Physical Education	Dover, Delaware
Kelley, Shirley	Mathematics	Frankford, Delaware
Kidd, Cynthia	Business Administration	Richmond, Virginia
King, Edward	Business Administration	Warren, Ohio
King, Ethel	Business Education	Wilmington, Delaware
Kittrels, Darrick	Sociology	Philadelphia, Pa.
Kornegay, Linda	Sociology	Wilmington, Delaware
Kunze, James	History	Dover, Delaware
Lark, Leroy	Business Administration	Philadelphia, Pa.
Lewis, Richard	Art Education	Wilmington, Delaware
Lewis, Walter	History	Lexington, Virginia
Little, Courtesty	Sociology	Dover, Delaware
Little, Diane	Psychology	Elizabeth, New Jersey
Lucas, Leonard	Sociology	Millsboro, Delaware
Lyons, John	Physical Education	Harrison, New Jersey
Madric, Gloria	Business Education	Wilmington, Delaware
Matthews, Frances	Elementary Education	Dover, Delaware
McCain, Larry	Business Administration	Wilmington, Del.
McConnell, William	English	Kirkwood, Delaware
McKinney, Dewey	History	Wilmington, Delaware
McKinnon, Charles	Psychology	Asbury Park, New Jersey
Medlin, Ronald	Sociology	Englewood, New Jersey
Merritt, Robert	Business Administration	Wilmington, Del.
Meyer, Gary	Business Administration	Dover, Delaware

FRESHMEN (Continued)

Name	Major Field	City and State
Miles, Luther	Physical Education	Dorchester, Mass.
Miles, William Jr.	Psychology	Perryville, Maryland
Miller, Dwaine	Physical Education	Wilmington, Delaware
Miller, Richard	History	Rehoboth, Delaware
Mitchell, Larry	Chemistry	Newark, Delaware
Monroe, Alan	Business Administration	Steubenville, Ohio
Monroe, Keith	History	Delaware City, Delaware
Monson, Thomas	Hist. & Pol. Sci.	Philadelphia, Pa.
Moore, Constance	Elementary Education	Felton, Delaware
Moore, David	Physical Education	New Castle, Delaware
Moore, Robert	History	New Castle, Delaware
Moore, Rourke	Psychology	Wilmington, Delaware
Moore, Willie	Physical Education	Baltimore, Maryland
Moran, Julie	Biology	Salinas, California
Morris, Teresa	Mathematics	Lewes, Delaware
Morrison, Andrew	Physical Education	Philadelphia, Pa.
Mosley, Oscar	Business Administration	Frederica, Delaware
Murray, Anthony	Elementary Education	Trenton, New Jersey
Murray, Herman	Physical Education	Clayton, Delaware
Neild, Carol	Sociology	Camden, Delaware
Nichols, Louise	Physics	Dover, Delaware
Nicholson, Sandra	Sociology	Smyrna, Delaware
Nsubuga, Gertrude	Biology	Philadelphia, Pa.
Outlaw, Alfred	Business Administration	Philadelphia, Pa.
Owens, Ada	Physical Education	Frankford, Delaware
Owens, Shirley	Business Administration	Wilmington, Del.
Parker, Lawrence	English	Wilmington, Delaware
Parker, Robert	Economics	Dover, Delaware
Pearson, Colone	Business Administration	New York, New York
Pearson, Richard	Business Administration	Wilmington, Del.
Pearson, Ronald	Business Administration	Hartly, Delaware
Pelzer, Hilderbrand	Psychology	Philadelphia, Pa.
Perkins, Darlene	Sociology	Wilmington, Delaware
Perry, Marian	Home Econ. Educ.	Frederica, Delaware
Perry, Robert	Agriculture	Cheswold, Delaware
Peters, Stephen	Mathematics	Philadelphia, Pa.
Peterson, Deborah	Sociology	Wilmington, Delaware
Pettyjohn, Charles	History	Ellendale, Delaware
Pinkett, Patricia	Sociology	Wilmington, Delaware
Poole, Fred	History	Dover, Delaware
Porter, Arthur	Sociology	Wilmington, Delaware
Pritchett, Clarence	Elementary Education	Wilmington, Delaware
Pully, Walburton	Business Administration	Baltimore, Maryland
Raymond, Joseph	Business Administration	Wyoming, Delaware

FRESHMEN (Continued)

Name	Major Field	City and State
Reed, Ronald	History	Townsend, Delaware
Rice, Jeffrey	Spanish	Milford, Delaware
Rich, Susan	Business Education	Washington, D. C.
Roane, Forrester	Physical Education	Wilmington, Delaware
Robbins, John	Business Administration	Smyrna, Delaware
Robinson, Kirk	Elementary Education	Long Branch, N. J.
Robinson, Madeline	French	Elizabeth City, N. C.
Robinson, Wayne	Mathematics	Milwaukee, Wisconsin
Russell, Rhonda	Psychology	Wilmington, Delaware
Rykard, Joseph	History	Wilmington, Delaware
Sanders, Wally	Physical Education	Dover, Delaware
Satterthwaite, Roslyn	Elementary Education	Philadelphia, Pa.
Scott, Alan	Mathematics	Neptune, New Jersey
Scott, Clara	Elementary Education	Newark, Delaware
Selby, Clarence	Elementary Education	Laurel, Delaware
Selby, Lester	Physical Education	Brooklyn, New York
Semonavick, William	Elementary Education	Dover, Delaware
Settles, Alberta	Sociology	Dover, Delaware
Sharp, Jan	Music	Milford, Delaware
Sheehan, Isabelle	Secretarial Science	Dover, Delaware
Short, Thomas	Sociology	Wyoming, Delaware
Sivels, Ruth	Elementary Education	Millsboro, Delaware
Skinner, Robert	Business Administration	Townsend, Delaware
Smack, Howard	History	Bridgeville, Delaware
Smith, Betty	Elementary Education	Milford, Delaware
Smith, Gloria	Economics	Greenwood, Delaware
Smith, William	History	Dover, Delaware
Snell, Isaac	Psychology	Locust Valley, N. Y.
Snow, James	Physical Education	Wilmington, Delaware
Spain, Lois	Psychology	Philadelphia, Pa.
Spearman, David	Sociology	Chicago, Illinois
Spratley, Herbert	Business Administration	Newport News, Va.
Steele, Richard	Business Administration	Boston, Mass.
Stephens, Benjamin	Sociology	Washington, D. C.
Stevens, George E.	Business Administration	Philadelphia, Pa.
Stevenson, Josephine	Sociology	Millsboro, Delaware
Stewart, Rosetta	Sociology	Atlantic City, N. J.
Stokes, Cenobia	Biology	Wilmington, Delaware
Sudler, Howard	Elementary Education	Wilmington, Delaware
Summers, Sharon	Sociology	Smyrna, Delaware
Taylor, Marcella	Physical Education	Camden, New Jersey
Taylor, Richard	Sociology	Smyrna, Delaware
Temple, Mental	Biology	New Castle, Delaware
Thatch, Jacqueline	Elementary Education	Wilmington, Delaware

FRESHMEN (Continued)

Name	Major Field	City and State
Thomas, Margaret	Elementary Education	Smyrna, Delaware
Thrope, Ronald	Mathematics	Townsend, Delaware
Tice, Yvonne	Elementary Education	Millsboro, Delaware
Tiller, Edward	Physical Education	New Castle, Delaware
Torgerson, Ronald	Business Administration	Dover, Delaware
Torrence, John	History	Wilmington, Delaware
Truitt, Charles	Elementary Education	Woodside, Delaware
Tue, Brandt	Physical Education	Dover, Delaware
Tull, Lex	Psychology	Smyrna, Delaware
Tunnell, Janie	Elementary Education	Frankford, Delaware
Vanderhost, Robert	Elementary Education	Philadelphia, Pa.
Wallace, Maureta	Music	Williamsburg, Virginia
Walsh, Michael	Chemistry	Wilmington, Delaware
Waples, Diane	Business Administration	Ellendale, Delaware
Ward, Wanda	Elementary Education	Wilmington, Delaware
Waters, George	Business Administration	Greenwood, Delaware
Watson, Aron	Chemistry	Milton, Delaware
Watson, Robert Law	Sociology	Wilmington, Delaware
Wayman, Janet	Business Administration	Smyrna, Delaware
Weathersby, Arlander	Physical Education	Camden, Delaware
Welsh, Paul	Physics	Dover, Delaware
Whaley, Charles	Chemistry	Lincoln, Delaware
Whaley, Wayne	Elementary Education	Lincoln, Delaware
Wheatley, Edward	Elementary Education	Harrington, Delaware
White, Betty	Psychology	Laurel, Delaware
Whittington, Wilma	Elementary Education	New Castle, Delaware
Wiggins, Ronald	Mathematics	Philadelphia, Pa.
Wilder, Jacqueline	Business Administration	Dover, Delaware
Wilkins, Brenda	Elementary Education	Little Creek, Delaware
Wilkins, Shirley	Elementary Education	Little Creek, Delaware
Williams, Diane	Business Education	Wilmington, Delaware
Williams, Gwyned	Physical Education	Dover, Delaware
Williams, Harry	Business Administration	New Castle, Delaware
Williams, Patricia S.	Sociology	Dover, Delaware
Wilson, Gilbert J.	Psychology	Smyrna, Delaware
Wilson, Linda	Elementary Education	Smyrna, Delaware
Wilson, Shirley	Biology	Philadelphia, Pa.
Wilson, Steven	Business Administration	Steubenville, Ohio
Wilson, Lawrence	Art Education	Milford, Delaware
Winward, Robert	Physical Education	Wilmington, Delaware
Withers, David	Physical Education	New York, New York
Wright, Arthur	H. & P. Education	Newark, Delaware
Wright, Danny	History	Lewes, Delaware
Wylie, William	Business Administration	Milford, Delaware

FRESHMEN (Continued)

Name	Major Field	City and State
Yonker, Robert	Natural Resources	Milford, Delaware
Young, Ernest	Elementary Education	Milford, Delaware
Young, Gonzelous	Mathematics	Lincoln, Delaware
Young, H. Eldridge	Chemistry	Lincoln, Delaware
Zatlokovicz, Richard	Business Administration	Dover, Delaware

EVENING SCHOOL

Name	City and State
Adams, Joseph A.	Hurlock, Maryland
Adgers, Audrey Jones	Dover, Delaware
Albury, Betty L.	Seaford, Delaware
Andrus, Pauline	Dover, Delaware
Armstrong, Charles	Delaware City, Delaware
Bailey, June	Odessa, Delaware
Barclay, Daniel	Dover, Delaware
Barnes, John	Dover, Delaware
Bickling, Robert P.	Greensboro, Maryland
Bourassa, Barbara	Dover, Delaware
Breza, Charles	Newark, Delaware
Brown, James	Dover, Delaware
Bryan, Robert W.	Lewes, Delaware
Bryant, Marcellus	Townsend, Delaware
Bures, Vera	Woodside, Delaware
Burton, Mary	Seaford, Delaware
Bush, Michael	Woodside, Delaware
Butler, Bernadine	Dover, Delaware
Byrd, Calvin	Smyrna, Delaware
Cain, John	Dover, Delaware
Caldwell, Mazle	Dover, Delaware
Cannon, Isaac	Bridgeville, Delaware
Cooper, Gwynneth	Wilmington, Delaware
Corbeil, Barbara	Dover, Delaware
Crouch, Jewell	Denton, Maryland
Currie, Robert	Milford, Delaware
Czaplicki, Frances	Dover, Delaware
Daniels, Audrey	Dover, Delaware
David, Hidelisa	Milford, Delaware
Davis, Mark	Milford, Delaware
Dawkins, Jane	Dover, Delaware
Dixon, Samuel	Woodside, Delaware
Doe, Helen	Dover, Delaware

EVENING STUDENTS (Continued)

Name	City and State
Durgan, Robert	Dover, Delaware
Ellingsworth, John	Clayton, Delaware
Ellison, Linda	Dover, Delaware
Emeigh, Patricia	Smyrna, Delaware
Engrem, Charles	Smyrna, Delaware
Erne, Marie	Felton, Delaware
Evans, M. Rose	Dover, Delaware
Fields, Isabel	Sudlersville, Maryland
Foard, Lloyd	Blades, Delaware
Fortugno, Sister Frances C.	Rehoboth, Delaware
Foster, Joan	Dover, Delaware
Freeman, James	Frederica, Delaware
Freeman, Karen	Frederica, Delaware
Gage, George	Smyrna, Delaware
Gaines, Pearles	Dover, Delaware
Gaither, Albert C.	Wilmington, Delaware
Gardner, Nancy	Dover, Delaware
Garrison, Gamaliel	Dover, Delaware
Gibson, JoAnne B.	Dover, Delaware
Goldsborough, William C.	Wyoming, Delaware
Hall, Jeanette L.	Millsboro, Delaware
Hansen, Randall	Clayton, Delaware
Hardcastle, Diane	Dover, Delaware
Harris, Nancy	New Castle, Delaware
Harris, Thomas C. Jr.	New Castle, Delaware
Holt, Barbara	Smyrna, Delaware
Hurtlen, Jurgen	Dover, Delaware
Irons, Simone	Smyrna, Delaware
Jacobs, Kay Nell	Smyrna, Delaware
Jarmon, Lillie	Smyrna, Delaware
Jarrell, Eldred	Dover, Delaware
Jones, David	Dover, Delaware
Kenton, Marian	Milford, Delaware
Knorr, Joseph	Dover, Delaware
Kunkle, Louise	Milford, Delaware
Layton, Elaine	Dover, Delaware
Leager, Rosemary	Hartly, Delaware
Lerner, Gerald	Milford, Delaware
Link, Margaret	Dover, Delaware
Lorenz, Lester	Sudlersville, Maryland
Lucas, Claudine	Dover, Delaware
Marshalewski, Sister M. Stephen	Rehoboth, Delaware
McFadden, Nancy	Dover, Delaware
McKinney, Robert	Dover, Delaware

EVENING STUDENTS (Continued)

Name	City and State
Midas, Beatrice	Dover, Delaware
Minear, Melaine	Dover, Delaware
Mitchell, Helen	Dover, Delaware
Moller, Charles	Woodside, Delaware
Moore, Charles	Camden, Delaware
Mosley, Coleman	Dover, Delaware
Moyer, Etta	Dover, Delaware
Neeman, Bertha	Harrington, Delaware
Neeman, Claudia	Harrington, Delaware
Newland, William B.	Smyrna, Delaware
Newton, Lucy	Dover, Delaware
Oldham, Patricia	Dover, Delaware
O'Neild, Francis J. Jr.	Dover, Delaware
O'Rourke, Nancy	Townsend, Delaware
Paddick, Robert	Dover, Delaware
Pendleton, Sylvia	Dover, Delaware
Pierce, Sylvia	Dover, Delaware
Powell, Vera	Dover, Delaware
Pritchard, David	Dover, Delaware
Quarles, John	Dover, Delaware
Raub, John	Dover, Delaware
Roberts, James	Easton, Maryland
Robertson, Frances	Clayton, Delaware
Robertson, Theda	Dover, Delaware
Royall, David	Dover AFB, Delaware
Rusanowsky, Leona	Goldsboro, Maryland
Sedule, Ethel	Dover, Delaware
Semonavick, William	Dover, Delaware
Shahan, Sally	Kenton, Delaware
Short, Harrison	Millsboro, Delaware
Sieling, Scott	Milford, Delaware
Skinner, Charles	Dover, Delaware
Skinner, Marian	Dover, Delaware
Smith, Bradford	Dover, Delaware
Smith, Marie	Smyrna, Delaware
Smotherman, Debra	Dover, Delaware
Soreny, Victor	Dover, Delaware
Sousa, Sister Ambrose	Rehoboth, Delaware
Stevenson, Clarence	Dover, Delaware
Sudler, Jean M.	Dover, Delaware
Sullivan, Harry	Dover, Delaware
Temple, Shirley	Harrington, Delaware
Thompson, Wendell	Dover AFB, Delaware
Tirabassi, John	Smyrna, Delaware

EVENING STUDENTS (Continued)

Name	City and State
Townshend, Evelyn	Dover, Delaware
Trotter, Mary	Wilmington, Delaware
Warrington, Floyd	Dover, Delaware
Watkins, Patrick	Dover AFB, Delaware
Watson, Elwood	Milford, Delaware
Watts, Winifred	Dover, Delaware
Weaver, Charles	Magnolia, Delaware
Webb, Francis	Houston, Delaware
Weller, Barbara	Camden, Delaware
White, Samuel	Dover AFB, Delaware
Williams, Mary	Wyoming, Delaware
Wilson, Marion	Smyrna, Delaware
Woodall, William	Clayton, Delaware
Young, Harold	Smyrna, Delaware
Young, Riddie	Dover, Delaware

SPECIAL STUDENTS

Name	Major Field	City and State
Batal, Kheireddin		Dover, Delaware
Bell, Charles	H. & P. Education	Laurel, Delaware
Bourne, Jo Ann T.		Frederica, Delaware
Bowman, Alverta		Wilmington, Delaware
Brown, Robert L.	Elementary Education	Wyoming, Delaware
Cannon, Carl F.		Wilmington, Delaware
Carson, Alma	Psychology	Dover, Delaware
Carter, William	Sociology	Magnolia, Delaware
Dewberry, Kenneth	Business Administration	Dover, Delaware
Friedman, Rhoda	Elementary Education	Milford, Delaware
Godwin, John	Art Education	Felton, Delaware
Grandia, Kathy	Sociology	Camden, Delaware
Hahs, James	History	Magnolia, Delaware
Hall, Marjorie	H. & P. Education	Dover, Delaware
Hause, Albert Jr.	Chemistry	Dover, Delaware
Hicks, George		Milford, Delaware
Ingram, Leonzo		Milford, Delaware
Jarrell, Alvin	Business Administration	Magnolia, Delaware
Jennings, Violet	Sociology	Clayton, Delaware
Johnson, Claude	Elementary Education	Dover, Delaware
Lavender, Dewey		Townsend, Delaware
McKenzie, Mary		Dover, Delaware

(Continued)

Name	Major Field	City and State
Moore, Karryl		Dover, Delaware
Moorhead, William D.	History	Dover, Delaware
Neidhart, Rose		Dover, Delaware
Pierce, Ronald	Elementary Education	Dover, Delaware
Rassbach, Herbert		Camden, Delaware
Richardson, Julian		Magnolia, Delaware
Rowen, James		Dover, Delaware
Talbert, Ernest	Business Administration	Wilmington, Delaware
Thwaites, Edmund		Hartly, Delaware
Valcarce, Ondina		Dover, Delaware
Vargas, Angel		Dover, Delaware
Vitale, Ralph	Art Education	Wyoming, Delaware
Wade, Kenneth	Business Education	Smyrna, Delaware
Watts, Winifred	Elementary Education	Dover, Delaware
White, James	Business Administration	Milford, Delaware

INDEX

Academic Calendar	4
Academic Regulations	32
Accounting (Business Administration)	62
Accreditation	2
Administration, Officers of	7
Administrative Assistants	8
Admissions	28
Advanced Standing	29
Agricultural Education	37
Agriculture	42
Aims, College	6
Anthropology	119
Art Education	47
Astronomy	112
Attendance	33
Biology	51
Board of Trustees	7
Buildings and Grounds	20
Business Administration (Accounting)	62
Business Administration (General)	63
Business Education	65
Calendar, Academic	4
Chemistry	56
Committees, Faculty	17
Curriculum Organization	37
Degree Requirements	34
Directory, College	2
Economics	60
Education	70
English	76
Expenses	25
Faculty	10
Fees	25
Financial Aid	27
Foreign Languages	80
French	81
Freshman Differential Curriculum	36
General Education	35
General Information	21
Geography	94
German	82
Government	96
Grades	33
Graduation, Requirements for	34
Health and Physical Education	84

INDEX

Health Education	87
History and Political Science	92
History of the College	5
Home Economics	97
Home Economics Education	98
Honors	33
Honor Society	23
Humanities	79
Mathematics	102
Medically Allied Fields	85
Military Science	120
Music Education	105
Natural Resources	45
Objectives of the College	6
Philosophy	109
Physical Education	88
Physical Science	113
Physics and Astronomy	110
Placement Service	22
Political Science	96
Probation, Academic	32
Probation, General	33
Psychology	115
Recreation	87
Registration	31
Regulations, Academic	32
Russian	84
Secretarial Science	67
Sociology and Anthropology	118
Spanish	83
Student Organizations	22
Student Roster	125
Student Teaching	74
Teacher Education	70

The first part of the book is devoted to a general
introduction of the subject. It is divided into
three chapters. The first chapter is on the
history of the subject. The second chapter is on
the theory of the subject. The third chapter is on
the practice of the subject. The second part of
the book is devoted to a detailed study of the
subject. It is divided into two chapters. The
first chapter is on the theory of the subject.
The second chapter is on the practice of the
subject. The third part of the book is devoted
to a study of the subject in relation to other
subjects. It is divided into two chapters. The
first chapter is on the theory of the subject.
The second chapter is on the practice of the
subject.

