



DELAWARE STATE COLLEGE

DOVER,
DELAWARE
CATALOG
1974-75



CORRESPONDENCE DIRECTORY

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LAWS HALL	678-5148-678-5149
META V. JENKINS HALL	678-5147
TUBMAN HALL.....	678-5150
INFIRMARY.....	678-5121-678-5122
LIBRARY.....	678-5111-678-5112
MARTIN LUTHER KING JR. STUDENT CENTER	678-5133-678-5134
SECURITY	678-5127-678-5129
VETERANS' AFFAIRS	678-5213-678-5214

All administrative Offices at the College are open five (5) days per week from 8:30 a.m. to 12:30 p.m. and from 1:30 p.m. until 4:30 p.m. Business may be transacted daily Monday through Friday with the exception of certain legal holidays.

The telephone Area Code for Delaware State College is 302. Interested persons should contact the College receptionist for telephone numbers not listed above. In order to reach the College receptionist dial 678-5155.

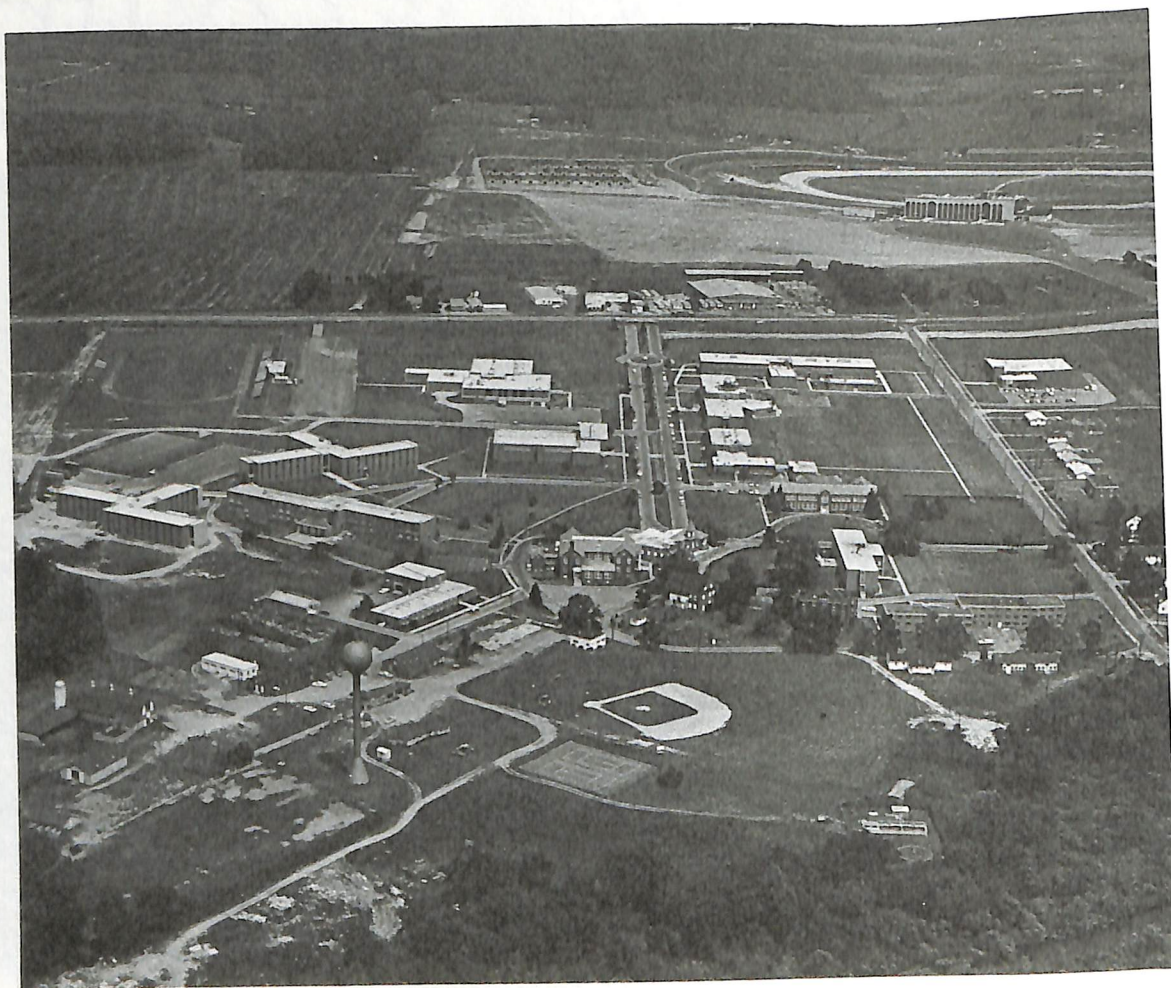
DELAWARE STATE COLLEGE

DOVER, DELAWARE 19901



Library Planning

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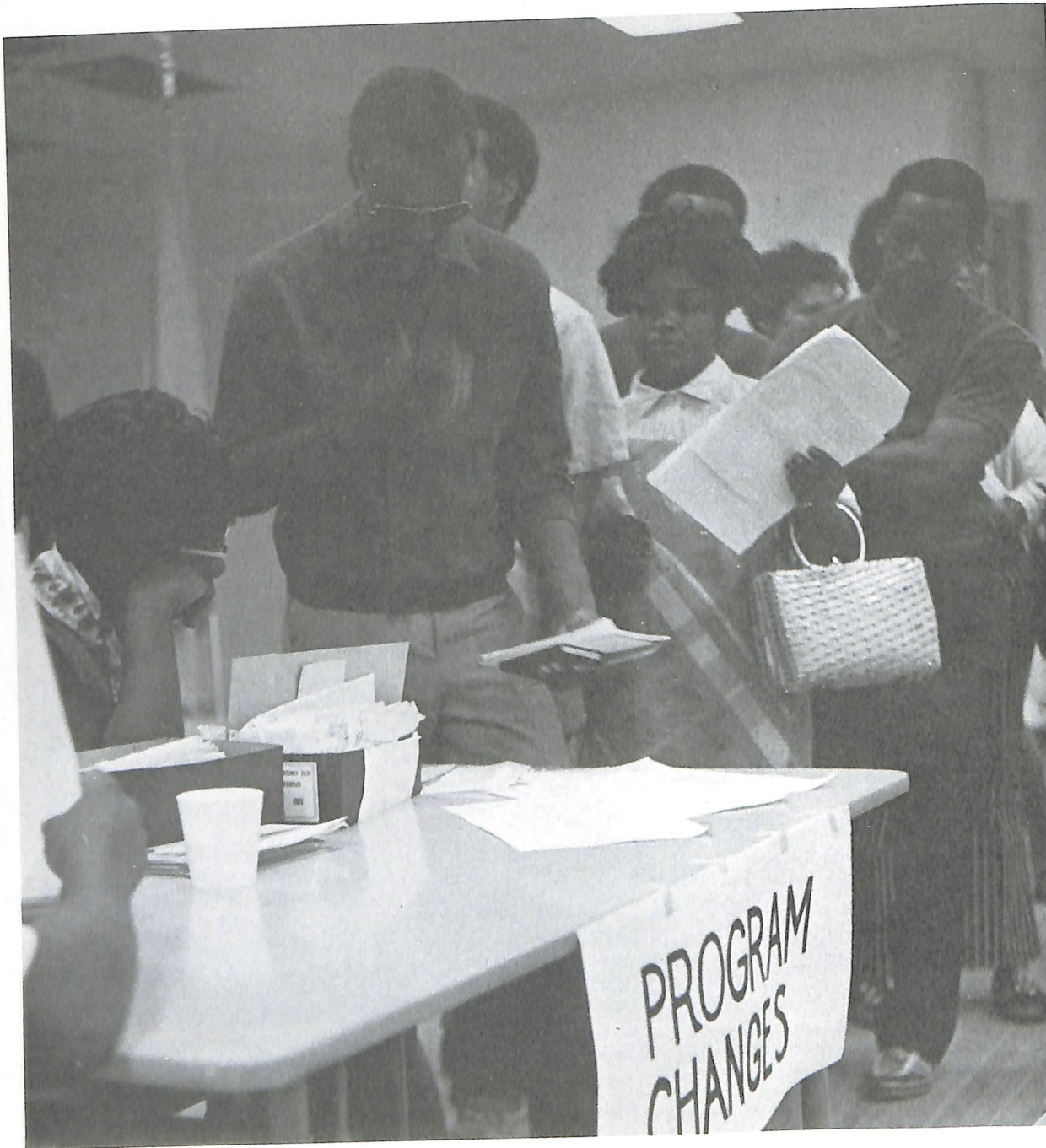
Aerial View of Delaware State College

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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 revise any provision or regulation at any time within the student's term of enrollment if it is deemed advisable. Advance notice of any change is given whenever possible.

The College reserves the right to refuse admission or to revoke admission to any person judged to be a danger to himself, other College community members or to College property.



Student Center Registration

ACADEMIC CALENDAR

FIRST SEMESTER 1974-75

August 27 (Tuesday)	Residence Halls Open
August 28 (Wednesday)	Freshman Orientation
September 2-3 (Inclusive)	Labor Day Recess
September 4 (Wednesday)	Registration (Returning & Transfer Students)
September 5 (Thursday)	Registration (Freshmen)
September 6 (Friday)	Late Registration Begins
September 9 (Monday)	Classes Begin
September 13 (Friday)	Late Registration Ends and Last Day for Adding Courses
October 14-16 (Monday-Wednesday)	Fifth Week Evaluations
October 18 (Friday)	Last Day to Remove Incomplete Grades
October 27 (Sunday)	Parents' Day
November 2 (Saturday)	Homecoming
November 20-24 (Inclusive)	Thanksgiving Recess
November 25 (Monday)	Classes Resume
November 25 (Monday)	Last Day To Drop Courses Without Evaluation
November 29 (Friday)	Last Day to Drop Courses
December 2-6 (Monday-Friday)	Pre-Registration
December 16-20 (Monday-Friday)	Final Examinations
December 20 (Friday)	First Semester Ends
December 21 (Saturday)	Christmas Recess Begins

SECOND SEMESTER 1974-75

January 5 (Sunday)	Residence Halls Open
January 6-8 (Monday-Wednesday)	Freshman Orientation
January 9 (Thursday)	Registration
January 13 (Monday)	Classes Begin
January 13 (Monday)	Late Registration Begins
January 15 (Wednesday)	Martin Luther King, Jr. Day
January 16 (Thursday)	Late Registration Ends and Last Day For Adding Courses
February 2 (Sunday)	Founders' Day
February 17-21 (Monday-Friday)	Fifth Week Evaluations
February 21 (Friday)	Last Day To Remove Incomplete Grades
March 22-31 (Inclusive)	Spring Recess
April 1 (Tuesday)	Classes Resume
April 11 (Friday)	Last Day To Drop Courses Without Evaluation
April 14-18 (Monday-Friday)	Pre-Registration
April 23 (Wednesday)	Last Day To Drop Courses
May 7-9, 12, 13 (Wed.-Fri., Mon., Tues.)	Final Examinations
May 18 (Sunday)	Commencement



Conrad Hall

THE COLLEGE

PHILOSOPHY

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 this knowledge to all who can make good use of it. Accordingly, it 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 free inquiry and the 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

1. "to develop
 - a. students as individuals.
 - b. inquiring minds—conceptual thinking.
 - c. skills in communications, both oral and written.
 - d. understanding of American culture in relation to other cultures.
2. "to provide
 - a. 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.
 - b. service to the citizens of the state by increasing their knowledge and ability to make practical application of knowledge.
3. "to encourage
 - a. the student's desire to serve his home, community and nation.
 - b. optimum physical development and the safeguarding of health."

HISTORY

On May 15, 1891, the Fifty-Eighth General Assembly of the State of Delaware passed "An Act to Establish and Maintain a College for the Education of Colored Students in Agriculture and the Mechanic Arts" by virtue of the Second Morrill Act of Congress approved August 30, 1890. The Morrill Act of 1890 provided a permanent annual endowment of twenty-five thousand dollars (\$25,000) for each land-grant college established under the provisions of the Morrill Act of 1862 and allowed a portion of the federal appropriation to be used for the endowment, support and maintenance of land-grant colleges for Negro youths in states which maintained separate educational facilities. This legislation provided for the establishment of Delaware State College.

Delaware State College has since developed into a 297 acre complex containing numerous modern buildings, the results of an intensive construction program inaugurated in 1960. The Student population is expected to reach 3,000 during the 1980-81 academic year and is drawn from the various sections of the United States, Africa, South America, Asia, and the Middle East. *The College provides special services to the State of Delaware and to neighboring states on an extended and increasing basis without regard to race, creed, or color.*

ACCREDITATION

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

BOARD OF TRUSTEES

The Board of Trustees of Delaware State College is comprised of eleven members, six appointed by the Governor of Delaware and five elected by the Trustees. The Governor and the President of the College serve as ex-officio members of the Board.

THE CAMPUS AND FACILITIES

Delaware State College is located in Dover, Kent County, Delaware, 45 miles south of Wilmington on the Delmarva Peninsula. The campus is adjacent to U.S. Highway 13 which provides direct access to Norfolk, Virginia; Salisbury, Maryland; Wilmington, Delaware; Philadelphia, Pennsylvania; and Camden, New Jersey. Other connecting highways in the Dover area provide access to the Chesapeake Bay Bridge, Washington, D.C., Baltimore, Maryland, and points West. The New York Metropolitan Area can be reached via the Delaware Memorial Bridges and the New Jersey Turnpike which intersects highway 13 just south of Wilmington. Year-round regular bus service connects Dover with all these cities.

Dover, the Capital of Delaware, is a community of approximately 25,000 people situated in the heart of the Eastern Shore within easy reach of the resort cities of Rehoboth Beach, Delaware; Ocean City, Maryland; and Cape May, New Jersey. The founding of Dover dates back to 1703. The town contains many

colonial buildings and several historical sites, including the home of John Dickinson, signer of the Declaration of Independence and the Constitution of the United States.

The modern physical facilities of Delaware State College give excellent support to the various college programs. The following are of particular interest.

GROSSLEY HALL—This two story structure houses the majority of the College's major Administrative 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, gymnasium, faculty offices, and classrooms are maintained for the use of the Department of Health and Physical Education.

WILLIAM C. JASON LIBRARY—This building was originally the small college chapel. It was expanded into a facility geared to the needs of a growing institution. However, recent growth has dictated the need for a new, better equipped facility that is now under construction. The book collection is being developed to meet the reference, instructional, and recreational needs of the College. There is a representative collection of periodicals and newspapers, popular literary, and special magazines.

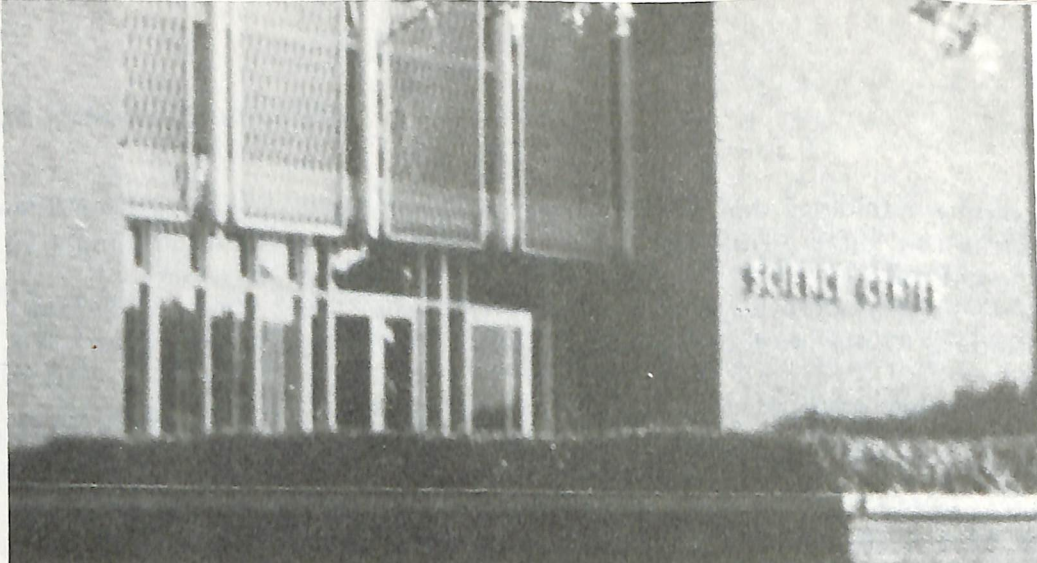
DELAWARE HALL—The Departments of Psychology and Sociology — Urban Affairs are located in this building. A small auditorium, the reading clinic, and psychology laboratories are located here.

LYDIA P. LAWS HALL—This residence hall houses freshman and sophomore women. Completed in 1963, it has a living capacity of 95 female students, an attractive and spacious lounge with patio, a recreation room, a completely equipped beauty parlor, a smaller lounge, a study room and a utility room on each floor, a modern furnished kitchen, and a laundry room with washers and dryers.

HARRIET TUBMAN HALL—This residence hall houses 106 freshmen women. It has an attractive lounge, beauty parlor, and recreation room.

META V. JENKINS HALL—This residence hall houses 221 sophomore, junior and senior women. It contains a lounge, kitchen, sewing room, and a staff apartment on each floor, a study room on each wing, a completely modern beauty parlor, a canteen, a recreation room, and a laundry room with washers and dryers.

SAMUEL L. CONWELL HALL—This residence hall is available for participants in special activity programs, i.e., Athletics. It houses 194 male students. Included in this building are a student lounge, a canteen and a recreation room.



Science Center

MEDGAR EVERS HALL—This residence facility houses 225 male students. It contains a lounge and staff apartment on each floor, a barber shop, a canteen, and a recreation room.

CONRAD HALL—This building serves as the major dining facility on the campus. Open to students and faculty members, it has recently been expanded to a seating capacity of four hundred. History Department classrooms and offices are on the second floor of this building.

BUSINESS ADMINISTRATION AND HOME ECONOMICS BUILDING—This modern building is the newest instructional facility on the campus. It 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 for alternating periods as required by the curriculum.

MARTIN LUTHER KING JR. STUDENT CENTER—This ultra-modern building was completed in 1967 and is the hub of student life on the campus of Delaware State College. It houses offices for student organizations, and several units for student personnel services, a post office, bookstore, canteen, bowling alley, exhibition room, recreation and entertainment rooms, meeting rooms, lounges and a large auditorium ballroom.

SCIENCE CENTER—This is a \$1,500,000 structure comprised of an astronomical observatory, vivarium laboratories, and classrooms for the biological sciences, chemistry, mathematics, physics, and science education. Also included are a radiation laboratory, offices, a research laboratory, a library, and an amphitheatre.

THE INFIRMARY—This modern health facility is adequately equipped and operated for the students by the College to provide care and confinement for minor illnesses.

CENTER FOR AGRICULTURAL AND NATURAL RESOURCES—This new and modern structure houses classrooms, laboratories, farm mechanics workshop, and faculty offices for the Department of Agriculture and Natural Resources. Located adjacent to this structure is a greenhouse.

THE EDUCATION AND HUMANITIES CENTER—This modern facility accommodates the department of art, music, English, foreign languages, philosophy, education, counseling, the Child Development Laboratory and the Offices of the Dean of Students. This facility includes an ultra-modern theatre.

The new Education-Humanities Center includes an auditorium with the capacity for seating 1,200 persons and is planned for community use. The auditorium is designed to accommodate instruction, drama, recitals, ballet, lectures, panel discussions, and other community-college activities.

The basic stage configuration is proscenium form. However, the stage and seating arrangements are flexible enough to accommodate thrust stage activities. The auditorium is adaptable to intimate theater activities and large group instruction requirements. The seating space is designed to accommodate the varied opportunities that the College will have to relate to the Greater Dover Area.

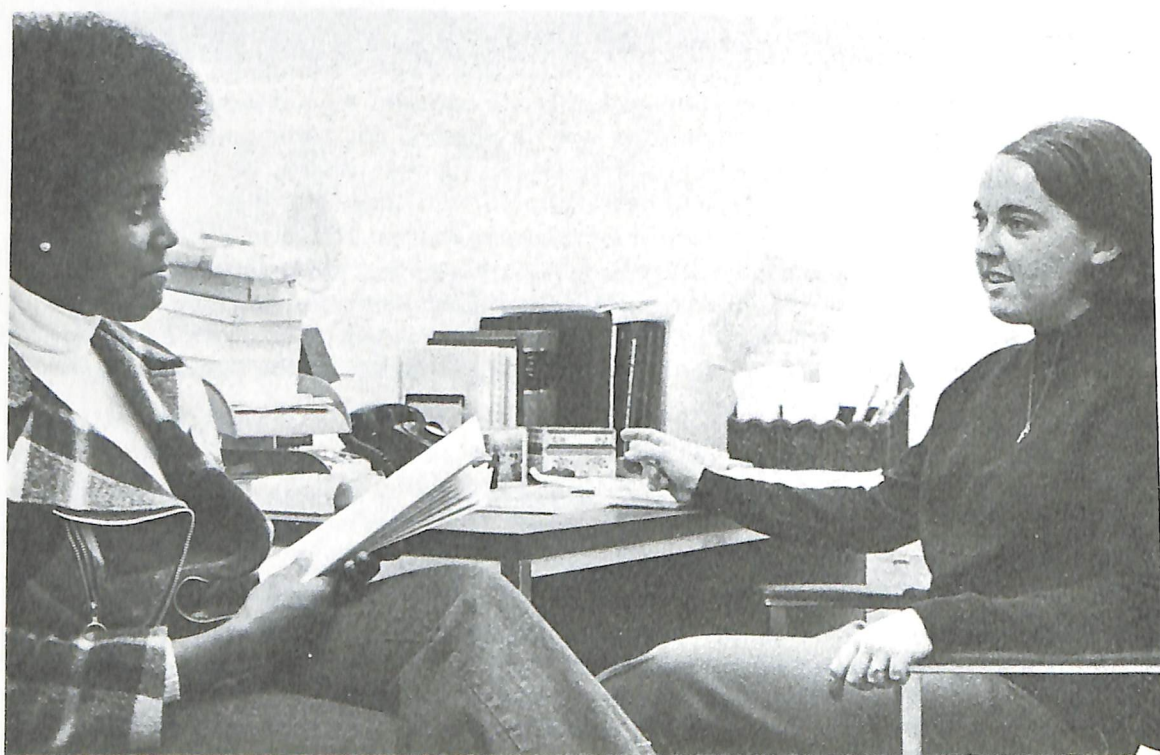
FUTURE DEVELOPMENTS

Located in one of the fastest growing areas of the country, the enrollment of Delaware State College is increasing rapidly. To accommodate this dramatic increase, several new facilities have been projected.

A new library is under construction and as additional funds become available several renovations of existing structures are contemplated. Included in the restoration of Loockerman House which is a fine example of a colonial Georgian Mansion and is widely reputed to have been an underground railway refuge during the pre-Civil War Period.

Important in this regard, the College is participating in the Federal Government's Title III Program, which is provided for in the Higher Education Act of 1965. Under the terms of this program, the College has received a total of \$798,995 in federal funds for the academic years 1968-69 through 1973-74. In addition to the Federal Government, several other public and private institutions are assisting Delaware State College as part of the Title III Program:

Under the stimulus of this program, the College is planning further long range intensive efforts to expand student services, upgrade the faculty, modify curricula, computerize administrative operations, and generally improve its character and standing as an institution of higher learning.



Counseling

STUDENT PERSONNEL PROGRAM

The personnel program is designed to provide services and programs that promote the kind of environment in which college students may develop into self disciplined, mature, and well balanced citizens. This service is intended to supplement the basic academic program of the College by generating opportunities for student involvement, creativity, achievement, and by fostering a positive climate for intellectual stimulation and growth.

Included in the student personnel program are opportunities for student involvement with the trustees, administration, and faculty on all matters concerning student life at the College. The program fosters student responsibility, student initiative, and the right of students to plan and execute. Another concern of the program is to help students resolve difficult personal and/or academic problems that may confront them and encourage students to make effective use of their time and the resources of the College.

STUDENT COUNSELING SERVICES

COUNSELING CENTER—Services by the Office of Counseling are designed primarily for the voluntary use of any enrolled student. The service offers the student the opportunity, on his own initiative, to work with professional counselors on any problems concerning skills, needs, hopes, and dilemmas that may occur during his college years.

The counseling service offers individual and group counseling through activities designed to assist students in making adjustments that will facilitate their academic and social growth at the college. The counseling service is private and confidential and renders a valuable service to the continued growth and development of students.

The results of measurements of ability and interests as revealed by various forms of tests are frequently used as aids to self-understanding and career planning. No fee is charged to students for these locally administered tests.

FRESHMEN ORIENTATION—A period of twelve days, prior to registration, is used to orient new students to the campus, to interpret to them the goals and purposes of the college, to administer to them a battery of placement tests, and to enhance their adjustment as efficient college students.

During this period upper classmen serve as advisors to freshmen. Personal interviews and group meetings are provided to promote a better understanding between upper classmen, faculty, staff, and the administration. The

freshmen orientation program also provides guidance to students in the selection of appropriate courses and with opportunities to discuss problems with their advisors.

ADVISEMENT—Faculty members act as advisors for all students. After official registration each freshman is assigned an advisor in the department to which he has been admitted. If a student later changes the department to which he has been admitted, or if he later changes his field of concentration, he is assigned to a different advisor who is familiar with courses and requirements in the new field of concentration.

Students are encouraged to consult their advisors for assistance in planning their registration for academic work and are urged to keep their advisors informed of their academic progress through periodic conferences. When necessary, advisors will refer students to other offices.

STUDENT TUTORIAL PROGRAM—Under the direction of the College Counseling Center, the Student Tutorial Program is designed to provide tutorial service for all enrolled students who require such assistance.

Participation in the program is voluntary and is extended to individual students upon request. Students who request academic assistance through the Program are provided service through both individualized and group approaches.

The main thrust of these tutorial activities addresses the areas of the students' greatest scholastic weaknesses. Careful attention is given to the adjustment of first and second year students.

FINANCIAL AID

Delaware State College participates in the College Scholarship Service (CSS) of the College Entrance Examination Board. Participants in CSS subscribe to the principle that the amount of financial aid granted a student should be based upon financial need. The CSS assists colleges, universities, and other agencies in determining student need for financial assistance. Students who are enrolled for not less than twelve (12) credit hours in degree programs are eligible for special scholarships, grants, and loans if they meet all other criteria specified by the form of aid sought.

Financial assistance at the College is made available through scholarships, grants, loans, and part-time employment opportunities. All funds are administered by the Office of Financial Aid.

In order to meet the student's financial need, the College may offer a "package of aid" that includes a scholarship or grant, a loan, and a job, in various combinations. The use of such a "package" enables the College to provide aid, within the limits of available funds, to more students than could be helped through scholarships alone.

FEDERAL GRANTS AND LOANS

BASIC EDUCATIONAL OPPORTUNITY GRANT—Undergraduate students attending an institution of higher education including nursing schools and proprietary schools, are eligible for a basic grant of \$1,400 a year minus the amount of expected family contribution. Part-time students are also eligible to receive basic grants according to a schedule of reduced amounts set forth by the commissioner. The grants are payable through the institution.

SUPPLEMENTAL EDUCATIONAL OPPORTUNITY GRANT PROGRAM—It is the purpose of this program to provide, through institutions of higher education, federal funds to assist in making available a higher education to qualified high school graduates of exceptional financial need, who for lack of financial means of their own or their families are unable to obtain a higher education without such aid.

Grants range from \$200 to \$1,000 based upon financial need. A student cannot receive a total grant award in excess of \$1,000 or one-half of the total student aid that he receives from all sources, whichever is less.

NATIONAL DIRECT STUDENT LOAN PROGRAM—The National Defense Student Loan Program was established to provide students with an opportunity to assist themselves. Funds are made available with extremely liberal repayment privileges to students who find it difficult to finance their college education. Repayment on loans does not begin until after graduation. The total amount of the loan does not have to be repaid until 10 years thereafter.

COLLEGE WORK-STUDY PROGRAM—The College Work-Study Program was established to stimulate and promote the part-time employment of students in need of the earnings from such employment to continue their education.

The College Work-Study Program thus provides additional financial assistance which can be combined, as far as feasible, with a loan or scholarship to the extent necessary to enable the student to meet his educational expenses.

STATE AND COLLEGE SCHOLARSHIPS, GRANTS AND LOANS

ATHLETIC GRANTS (up to full expenses)—Recipient must participate in varsity football, basketball, baseball, tennis, swimming, golf, wrestling, or track and be selected by a coach. Apply to the coach of a particular sport.

DEPARTMENTAL SCHOLARS (\$500)—Junior or senior standing; at least one full year of study at Delaware State College; 3.25 minimum cumulative grade point average; possess scholarly qualities of excellence in major field; intend to continue study beyond college; perform approved special supervised project in major field. Apply through major department chairman in spring of year prior to award.

EMERGENCY LOANS (up to \$25)—Students who need funds in the event of illness or death in their family may apply to the Office of the Dean of Students.

MUSIC SCHOLARSHIPS (\$100 to \$1000)—Must participate in College Band, Choir or other approved musical organization under the supervision of the Music Education Department. Apply through Department of Music Education in spring of year prior to award.

STATE SCHOLARSHIPS (800)—Must be a Delaware Resident and meet the following requirements:

1. A candidate must have no less than a 3.0 average as computed on a 4.0 scale; no less than 85% when based on 100%; or no less than "B" when letter grades are used. Averages computed by the high school and confirmed by the Admissions Office are accepted.
2. A candidate must rank within the top 25% of his class based on academic courses in the areas of English, Mathematics, Science and Social Studies.
3. A candidate with a business background may be considered if he or she has taken academic English and has a "B" or better in at least three (3) business courses.
4. A candidate must have on record scores made on national examinations such as CEEB (SAT), ETS OR ACT.

TRACK A SCHOLARSHIPS (unspecified)—Initial awards open to entering freshmen who rank in upper quartile (top ¼) by national norms of two STEP entrance examinations; or exceed local norms on all STEP examinations; and possess a high school average of "B" or above. Awards are renewable. No application necessary. Selections are made by Scholarship Committee after examinations are administered during Freshman Orientation Week each semester.

PRIVATE SCHOLARSHIPS

DELAWARE STATE COLLEGE ALUMNI ASSOCIATION SCHOLARSHIPS (4/\$250)—Awarded to students who have shown outstanding ability in the area of Fine Arts.

DIAMOND SHAMROCK CORPORATION SCHOLARSHIP in Economics & Business Administration (1/\$500).

EPSILON IOTA OMEGA CHAPTER, ALPHA KAPPA ALPHA SORORITY SCHOLARSHIP (1/\$150; 1/\$50)—First award to member of Epsilon Iota Omega Chapter at Delaware State College with highest cumulative grade point average. Second award to Chapter member earning the highest or next highest average in previous spring semester. Selection by Scholarship Committee is automatic if funds are made available to the College by the Sorority.

FOOD FAIR STORES SCHOLARSHIPS (5-6/\$250)—Initial awards are made to freshmen students from an accredited high school who have a scholastic average of 3.0 or above, show evidence of civic interest and leadership ability, and who are residents of Connecticut, Delaware, Florida, Georgia, Maryland, New

Jersey, New York, Pennsylvania, Rhode Island or Virginia. Renewable with a minimum 2.75 grade point average. Apply to Scholarship Committee by June 15.

GENERAL FOODS FUND SCHOLARSHIPS (2/\$750; 1/\$500)—Initial awards are made to entering freshmen majoring in Agriculture, Biology, Chemistry, and Food Science and Technology on basis of intellectual competency, leadership ability, high moral character, and financial need. Apply through major department to Scholarship Committee by June 1.

HERCULES INCORPORATED SCHOLARSHIP (Amount Varies)—Awarded to upperclassmen who are majoring in accounting with a scholastic average of 3.0 or above. Apply to the Department of Economics and Business Administration.

INTERNATIONAL PLAYTEX AWARDS (2/\$500)—Recipients must be entering freshmen who are ranked in the upper half of their senior high school class, are residents of Kent County, Delaware and are recommended by their high school principal or guidance counselor. Apply to Scholarship Committee by June 15.

ILC INDUSTRIES INC. AWARDS (2/\$500)—Entering Freshmen with undemonstrated potential. Apply to Scholarship Committee by June 15.

CHARLES JACOBS SCHOLARSHIP (1/\$100)—An award for foreign students who are enrolled at Delaware State College. Each year this scholarship will be awarded to one foreign student.

META V. JENKINS SCHOLARSHIP (1/\$200)—Awarded to a junior student from Philadelphia, Pennsylvania who is entering his senior year with a satisfactory record of conduct and scholarship. Student must need financial aid.

PRESTIGE SCHOLARSHIPS IN CHEMISTRY (7/\$750)—Chemistry majors showing high potential and recommended by the Department of Chemistry. One reserved for an entering freshman. Funds donated by: E.I. DuPont de Nemours and Company; Diamond Shamrock Company, General Foods Fund; Getty Oil Company; Hercules, Inc.; and NVF Company. Apply through Chemistry Department on special forms provided by the Department.

RALSTON PURINA COMPANY SCHOLARSHIP (1/\$500)—Awarded to junior or senior students majoring in Agriculture who have demonstrated extraordinary potential and need financial assistance.

SEARS PRESIDENTIAL SCHOLARSHIPS (\$200 min.)—Awarded initially to entering freshmen who are U.S. citizens or in the process of acquiring citizenship. Recipients must need financial aid and possess above average scholastic achievement. Renewable. Apply to Scholarship Committee by June 15.

SICO FOUNDATION SCHOLARSHIP (\$1,600 for 4 years)—Open to entering freshmen from Delaware who are committed to majoring in elementary education and two years of elementary school teaching in Delaware upon

graduation. Apply by March 1 to SICO Foundation on forms secured from high school counselor. Notify, Director of Financial Aid, Delaware State College, Dover, Delaware 19901.

STANDARD BRANDS SCHOLARSHIPS (1/\$500)—Chemistry majors showing high potential and recommended by the Department of Chemistry. Apply through Chemistry Department on special forms provided by the Department.

PROCEDURE FOR APPLYING FOR FINANCIAL AID

Candidates for admission to the College who wish to apply for financial aid should do so on Delaware State College Financial Aid Forms not later than February 15. Application forms may be obtained from the: Office of Financial Aid, Delaware State College, Dover, Delaware.

Students currently enrolled should apply on or before March 15 for assistance during the succeeding year.

All entering students are required to submit a copy of the Parents' Confidential Statement (PCS) to the College Scholarship Service, designating Delaware State College as a recipient of the PCS Evaluation not later than March 15. This material may be obtained from any secondary school or from the: College Scholarship Service, P.O. Box 175, Princeton, New Jersey 08540.

Applications filed later than the deadline indicated above will receive consideration provided funds are available.

Financial Aid applicants should note that the aid application cannot be processed until the student has been approved for admission. Announcements of awards are made during the month of May in the case of new students, and during the month of July in the case of students currently enrolled.

STUDENT HEALTH SERVICE

The College maintains a Health Service which provides modern and excellent medical services to the student body. In addition to medical services rendered at the Health Center, the staff maintains a referral service to hospitals, medical consultants, X-Ray, laboratories and clinics available in the area.

The Student Health Service furnishes medical care to the students only under the following conditions:

1. That a pre-admission history, health and physical examination form is on file at the Student Health Service completed by the student, his family, and a licensed physician (preferably the family physician).
2. That all referral services (consultants, laboratories, X-Ray, hospital emergency room, clinics, etc.) are made through the Student Health Service.
3. That the College Insurance program can only be utilized through the Student Health Service.
4. That the College Health Service does not preform special physical examinations, fraternity physical examinations or sorority physical examinations.

The Health Service Staff consists of the following: two part-time physicians, three full-time Registered Nurses, six part-time Registered Nurses and one secretary. The objective of this staff is to provide the best in medical services to the College student body.

The Health Service Building contains six beds for in-patient care, two modern examining rooms and offices.

STUDENT HEALTH SERVICE HOURS

Regular Session—24 hours per day, seven days per week (closed for lunch 12:30 p.m.-1:30 p.m.)

Summer Session—8:30 a.m.-4:30 p.m. (closed for lunch 12:30 p.m.-1:30 p.m.)

RESIDENCE PROGRAM

Each residence hall has a director or staff assistant in residence who is responsible for allocation of space, room assignments, coordination of maintenance, health, safety and custodial activities, and other administrative functions of the residence hall. The director, assisted by staff and student advisors, aids students in developing individual responsibility and advises the hall government in programming social, recreational, and cultural activities.

All rooms are rented for double occupancy, except those specifically exempted for Student Counselors or restricted due to size. A student may request assignments with a specific roommate. Written mutual requests are honored whenever possible.

Residence halls registration periods will be based on the Academic Calendar. Specific dates and hours will be included in information forwarded to prospective students by the Director of Residence Halls. Rooms are furnished by the College with beds, study desks and chairs; clean sheets and pillow cases are furnished weekly. Students must provide bedspreads and blankets, if desired. Rooms are inspected periodically in accordance with the health and safety standards of the College.

Each student is held responsible for the conduct that occurs in his room. Damage done to a room or its furnishings through carelessness or neglect is charged to the occupants.

AUTOMOBILES ON CAMPUS

Students may have automobiles on campus. Parking spaces are provided in designated areas for resident and commuter students.

Students with automobiles must register them promptly with the Campus Security Office. Official car registration must be presented when registering a car on campus. At that time, students will receive a bumper sticker that must be displayed as directed at all times. There is a small fee of one dollar (\$1.00) for this service.

IDENTIFICATION CARDS

Permanent ID cards are issued to full-time students upon matriculation. This card is the student's official College identification and must be in his possession at all times. It is validated each semester upon payment of the semester bill. The ID card is property of the College and must be surrendered upon request. It becomes void upon withdrawal and must be returned to the Office of the Dean of Students. Loss of an ID card should be reported promptly to the Dean of Students Office, Education-Humanities Building, so that a new card may be prepared. A charge is made for the replacement of an ID card.

CAREER PLANNING AND PLACEMENT

A staff of professional placement counselors is available for consultation concerning specific employment opportunities as well as more general counseling to assist students in the formulation of career plans. This service is available to all regularly enrolled students, evening school students, and alumni. Included in the service is the on-campus interview program, vocational interest testing, and individual counseling for all students.

More than 300 representatives of industry, business, government agencies, service organizations and school systems interview seniors in the Placement Center. Additionally, the Placement Center assists students in communicating with employers who do not conduct campus interviews.

The Career Planning and Placement Center maintains a reference library of over 400 volumes of occupational literature for use by all students. The Center also encourages them to explore career planning, personal and educational requirements for jobs, and employment trends early in their college lives. This is an attempt to integrate students' academic pursuits with their career objectives.

THE STUDENT CENTER

The Martin Luther King Student Center is a community center for students, faculty, staff, and alumni on the College campus. A program board sponsors a wide variety of educational, social, and recreational activities for the entire student body. This board, composed of appointed students and an advisor, serves to coordinate all aspects of social activity on the campus and assist other organizations and the faculty in planning programs and entertainment for the student body.

In addition to the meeting rooms available to campus groups and College guests, other areas of the Center include reception information counters, faculty dining room, student lounges, and a photography dark room. A television room and a music listening room are also open daily. Recent additions to the Center include, a recreation area which provides facilities for cards, billiards, as well as bowling lanes and an enlarged bookstore.

The auditorium may be converted to a dance area and used for major events. Lunch and light refreshments can be obtained in the Center snack bar, the Hornet Lounge.

The activities of the Student Center are planned by the Program Board to meet the interest of the student body as well as the social, cultural and intellectual development of the students.

VETERANS AFFAIRS OFFICE

This office is equipped to assist the veteran-student with the varied problems that are unique to the ex-serviceman and the serviceman who is attempting to achieve higher education.

Staffed with a full-time director and part-time workers, this office offers the following services, outreach, recruitment, and tutorial assistance.

All veterans and/or servicemen must contact this office when registering at Delaware State College if they wish to draw assistance under the G.I. Bill.

RELIGIOUS ACTIVITIES

Through its religious activities, the College seeks to provide opportunities for students to develop understandings of and appreciations for the place of religion in life, to deepen spiritual insights, and to make the practice of principles a vital part of the life of the well-educated citizen.

Religious activities are sponsored by the students in association with 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. All religious activities are voluntary and no religious groups are discriminated against at the College.

ATHLETIC ACTIVITIES

Delaware State College is currently a member of the Mid-Eastern Athletic Conference, District 19 of the National Association of Intercollegiate Athletics, and the National Collegiate Athletic Association.

The College fosters the idea that intercollegiate sports programs are of considerable significance in the total development of students for responsibility, leadership, and general effective citizenship.

Baseball, basketball, football, cross-country, track and field, tennis, swimming, wrestling, and golf are the intercollegiate sports in which the College participates.

The College also provides a comprehensive intramural sports program. A broad range of activities are planned for both male and female students.

CULTURAL ACTIVITIES

Through the cultural series a number of activities that enhance the cultural life of the College and the community are sponsored by the Lyceum Committee, a standing committee composed of members of the faculty and students.

The Lyceum Series brings several outstanding concert artists and other cultural enrichment activities to the campus each year. No additional fees are charged students for attending these performances.

The Art Department and the Martin Luther King Center sponsor art exhibitions in the Student Center. Each academic year there are at least nine exhibitions in addition to the annual exhibition of student art work. The exhibitions are of original works from the various fields of art; painting, sculpture, drawing, printmaking, interior design, textiles, and crafts.

STUDENT ORGANIZATIONS AND ACTIVITIES

The College recognizes students' needs for out-of-class activities and encourages them to participate in activities to develop their interests and abilities necessary in order to function within an organized group.

A representative list of organizations and activities at Delaware State College is given below.

STUDENT GOVERNMENT

STUDENT GOVERNMENT ASSOCIATION—The self-governing body of all students. Provides leadership in student affairs, supervises and coordinates student activities, represents the students in dealings with the faculty and the administration, and is the official voice of student opinion.

MEN'S COUNCIL—The self-governing body within the Residence Halls for Men.

NON-RESIDENT WOMEN'S COUNCIL—The self-governing body of non-resident (commuter) women students.

RESIDENT WOMEN'S SENATE—The self-governing body within the Residence Halls for Women.

CLASS ORGANIZATIONS

THE FRESHMAN, SOPHOMORE, JUNIOR, AND SENIOR CLASS ORGANIZATIONS—Foster class activities, increase class effectiveness, and promote a feeling of unity between the class members.

DEPARTMENTAL ORGANIZATIONS

AMERICAN CHEMICAL SOCIETY STUDENT AFFILIATE—Open to all students interested in science. Fosters a professional spirit among the members and deepens professional interest in chemistry. Activities include lectures, talks, discussions and seminars concerning new developments in chemistry, tours of local industries and social functions.

BIOLOGY CLUB—Provides opportunities for biology students to express their creative talents, discuss recent developments in biology, and gain additional experience in developing laboratory skills.

BUSINESS CLUB—Serves as a guide in the development of accepted business practices.

DISTRIBUTIVE EDUCATION CLUB—To complement and enrich the development of occupational competence necessary for success in distributive education.

FINE ARTS CLUB—Composed of students interested in the fine arts. Concentrates upon the arts, concerts, lectures, recitals, and trips to cultural centers.

HEALTH AND PHYSICAL EDUCATION CLUB—Promotes professional and social growth. Provides opportunities for students to gain experience in administering and supervising the intramural athletic program.

HISTORY AND POLITICAL SCIENCE CLUB—Open to all interested students. Furthers interest in and knowledge of history and political science.

HOME ECONOMICS CLUB—Open to any student taking a home economics course. Promotes professional growth and fosters fellowship among home economics students.

LOS CONQUISTADORES—To create and encourage educational activities related horizontally and vertically with Spanish life.

MATHEMATICS CLUB—Open to all interested students. Enriches and broadens students' knowledge of mathematics by exposing them to mathematical information not studied in class.

MUSIC CLUB—Furthers interest in and knowledge of music.

NATIONAL STUDENT EDUCATION ASSOCIATION—Open to all students interested in the education profession. Acquaints students with school and community educational problems and aids them in preparation for the teaching profession.

PSYCHOLOGY CLUB—Furthers interest in and knowledge of the field of psychology.

SOCIOLOGY CLUB—Encourages and develops a strong interest in the field of sociology.

HONOR SOCIETIES

ALPHA KAPPA MU—An honor society which promotes high scholarship, encourages sincere and zealous endeavor in all fields of knowledge and service, cultivates a high order of personal living, and develops an appreciation for scholarship and scholarly endeavor in others. Membership open to students of junior or senior classification who rank in the upper twenty per cent (20%) of their class and have a cumulative scholastic average of 3.25 or above.

DELTA MU DELTA—An honor society which stimulates professional study and promotes superior scholastic achievement in the field of business administration. Membership open to junior and senior business administration majors with cumulative scholastic averages of 3.25 or above.

EPSILON DELTA EPSILON—An honorary fraternity which stands for excellence in distributive education and promotes the ethical standards of distributive education. Membership open to junior and senior distributive education majors with a cumulative scholastic average of 3.00 or above in professional dis-

tributive education courses and an over all cumulative scholastic average of 2.5 or above.

PHI ALPHA THETA—An honor society which promotes academic excellence in the field of history. History majors with a minimum cumulative scholastic average of 3.00 and who have earned a cumulative average not less than 3.25 in their history courses are eligible for membership.

MUSICAL GROUPS

COLLEGE CHOIR—A select group of mixed voices. Sings at all College convocations and presents concerts. Open to all students who qualify by an audition with the Director.

COLLEGE BAND—Open to all students who qualify through an audition with the director. Plays for athletic events and College convocations and presents concerts.

PROFESSIONAL SOCIETIES

PHI BETA LAMBDA, INC.—Provides an opportunity for business students to prepare for business and office occupations; to learn how to engage in individual and group business enterprises, how to hold office and direct the affairs of the group; how to work with representatives of other organizations; and how to compete honorably with their colleagues on the national, local and state level. Membership open to students enrolled in business and office programs.

PRE-MEDICAL SOCIETY—Open to all students interested in a career in medicine, dentistry, veterinary science, or nursing. Stimulates and fosters interest in the health sciences, especially medicine and dentistry. Activities include lectures, talks, discussions, films, and tour of area medical and dental schools.

STUDENT MUSIC EDUCATORS NATIONAL CONFERENCE, STUDENT CHAPTER No. 369—Open to music majors and minors who are interested in broadening and enriching their musical experiences and to engage in worthwhile projects benefiting the College community.

RELIGIOUS ORGANIZATIONS

NEWMAN CLUB—Assists students of the Roman Catholic faith in their spiritual, intellectual and social development.

RICHARD ALLEN FOUNDATION—Fosters religious and cultural activities.

STUDENT CHRISTIAN ASSOCIATION—Concentrates on uniting all students in Christian fellowship.

WESLEY FOUNDATION—Assists students of the Methodist faith in their spiritual development.

SERVICE ORGANIZATIONS

ALPHA PHI OMEGA—Open to all male students. A national service fraternity devoted to leadership, friendship and service in four areas—the campus, the community, the fraternity, and the nation.

KAPPA PHI OMEGA—A service fraternity dedicated to service to the college, local community and surrounding areas of the college.

GREEK LETTER ORGANIZATIONS

THE PAN HELLENIC COUNCIL—Serves as the coordinating and supervisory body of all the Greek letter organizations. It seeks to maintain interfraternity and intersorority relations on a high level, helps each of the fraternities and sororities realize its individual goals, and unites them under the Greek tradition.

Chapters of the following Greek letter fraternities and sororities are active on campus. For information about any of these organizations, contact the president of the Pan-Hellenic Council.

Fraternities	Sororities
Alpha Phi Alpha	Alpha Kappa Alpha
Kappa Alpha Psi	Delta Sigma Theta
Omega Psi Phi	Zeta Phi Beta
Phi Beta Sigma	

SOCIAL CLUBS

COUNCIL ON INDEPENDENT ORGANIZATIONS—Serves as the coordinating and supervisory body of all social fraternities and social organizations. These organizations are dedicated to promoting excellence in social activities on the campus, in the community and state. The social clubs listed below are active on campus.

CRESCENT CLUB—Sponsors social activities.

GAMMA PHI OMEGA—To foster the development of brotherhood, excellence in scholarship and sound leadership through the socializing of a Fraternity Life.

GROOVE PHI GROOVE SOCIAL CLUB—Sponsors civic and social activities.

ESQUIRE CLUB—Sponsors and participates in civic and social activities.

IOTA PHI THETA—Fosters education for effective citizenship.

PHI BETA BURGUNDY

PROGRESSIVE SOCIAL CLUB LTD—To work with the college and community to stimulate greater interest in sponsoring college and community programs and activities.

SIGMA GAMMA RHO

SWING PHI SWING

VOGUE

WINE PSI PHI—A service club geared to the college, community, and local areas of the college.

SPECIAL INTEREST GROUPS

BLACK STUDENT UNION—Concentrates on increasing the level of awareness of Afro-American students and others and on increasing Afro-American studies in areas of education.

COMMUTER'S CLUB—Serves as the representative body for non-resident students.

DRAMATIC GUILD—Provides opportunities for students to gain experience in dramatics.

JAZZ CLUB UNLIMITED—Promotes interest in music.

KARATE CLUB—Cultivates the personalities and disciplines the bodies and spirits of its members.

LYCEUM COMMITTEE—Faculty Committee that supplies cultural activities.

PERIPATETICS—Promotes the development of sound reasoning and effective presentation of ideas through debating.

PHOTOGRAPHY CLUB—Develops an interest in learning and applying principles of good photography.

STUDENT CENTER PROGRAM BOARD—Plans special programs and social activities for all students.

WRITER'S CLUB—Encourages and promotes creative student writing.

VETERANS' CLUB—Provides assistance to the veterans in adjusting to college life and to function on behalf of the veterans' interest.

STUDENT PUBLICATIONS

THE HORNET—A bi-monthly student newspaper which attempts to cover all newsworthy campus events. Offers students practical experience in news reporting, feature writing, copy and proofreading, business management, and circulation.

THE STATESMAN—An annual yearbook, containing broad coverage of the academic, social, and co-curricular aspects of student life during each academic year.

STUDENT RESPONSIBILITIES

Concurrent with student rights and privileges are certain student responsibilities. A student should use his time effectively in pursuit of his educational goals, maintain high standards of scholastic achievement, conduct himself with propriety, respect the rights and opinions of others, preserve healthful and wholesome physical and hygienic conditions, and actively participate in student life at the College.

Students are expected to observe the college regulations, uphold the reputation of the College, and devote themselves earnestly to their studies. They are expected to take pride in and to assist in the maintenance and preservation of college property.

Students should take courses for the purpose of learning and for their own personal growth and development. Except for cases of unusual circumstances, all students are expected to attend classes regularly and punctually. They should develop a wider understanding of themselves and their society. They should adopt the kinds of patterns and values which will be beneficial to them throughout their entire lives. It is important that each student conduct himself in such a manner as to be a credit to himself and to the College.

Students who lack integrity, are out for some selfish objective at the expense of others, who do things halfway and take shortcuts; or have any form of dishonesty—small or large, either to themselves or to others—are not the type of students who belong in this academic community.

Students should use their varied abilities to the fullest extent and make their years at Delaware State College a meaningful and profitable experience.

Parents' Day Scholarship Recipients





Staff and Student Entering Campus

ADMISSIONS

Admission to Delaware State College is granted all applicants whose academic and personal qualifications give promise of success in the College. Because of limited facilities, the College reserves the right to close admissions when no further space remains. It is therefore advisable for a high school student to make his college choice at the close of his junior year or early in his senior year.

All persons seeking admission to regular school sessions must apply formally through the Office of Admissions. An official and prompt notice of eligibility for admission will be sent to each applicant after his credentials have been evaluated. At the proper time after acceptance, an individual must follow the official registration procedure applicable to his academic status.

A person seeking admission to regular sessions should complete and submit his application, including all supporting documents, by the following deadline:

First Semester Admission—July 1st
Second Semester Admission—December 1st

For certain special programs, the Summer and Evening Schools, and short course admissions, application deadlines are announced through other means appropriate to the situations.

Following are the admission requirements established by the Board of Trustees of the College:

A. Admissions: Application Procedures

1. An applicant may secure an application form from the guidance office of his secondary school or from the Admissions Office of the College. A letter of instructions is included.
2. The applicant should complete the personal part of the form and forward it with the application fee of ten dollars to the Office of Admissions. The Evaluation Sheet should be given to the high school counselor immediately upon submitting the application to the College. The high school counselor will complete this record and forward it to the Office of Admissions. The transfer applicant, in addition, should arrange to have forwarded official transcripts of all his previous college work.
3. Each applicant must submit a report of his health history and a recent physical examination including a S.T.S. signed by a qualified physician. A certificate of a successful smallpox vaccination must accompany the health

report. The correct form for this is provided by the college. Each prospective student is advised to have his eyes and teeth examined and all defects corrected before entering the College.

4. **Applicants are advised that failure to give complete and accurate information will be grounds for cancellation of registration and dismissal from the College.**

B. Admission: High School Graduates

1. Admission may be granted to applicants who have a certificate or diploma from an accredited four-year school or senior high school.
2. Admission is granted on the basis of grades, class rank, test scores, and such other evidence, including the recommendations of appropriate high school officials, as may be deemed indicative of the ability of the applicant to complete a course of study in the college leading to a degree or certificate.
3. Applicants from schools operating under experimental programs and applicants from unapproved high schools with 15 units of acceptable grades will be considered in the light of these, depending upon their performance on the battery of tests administered to all freshman. A satisfactory record normally includes completion of 15 acceptable units distributed as follows:

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

4. Applicants with a required unit deficiency may be admitted. This deficiency must be made up before the first 30 hours of college work are completed. Make-up may be accomplished at any Delaware State High School Extension Center at the student's expense.

Affected persons should contact:

Supervisor, High School Extension Programs
State Department of Public Instruction
State House Annex
P.O. Box 697
Dover, Delaware 19901

5. The tests to be used for admission purposes shall be the College Board Scholastic Aptitude Tests (SAT). The absolute minimum total varies with the strength of other criteria stated above.
6. Those scores of tests taken in December or January of the senior year of secondary school are preferred. Results of tests completed during the junior year will be accepted.

C. Admission: Non-Graduates of High School

In lieu of a high school diploma, the College will accept high school equivalency certification from the State of Delaware or from the Armed Forces, confirming the fact that the applicant has earned scores on a High School Equivalency Examination (GED) with scores not less than forty (40) on each one of the five (5) tests, resulting in an average score not less than forty-five (45). Applicants with certification from other states who meet this requirement and who have become bona fide residents of the State of Delaware are eligible.

D. Admission: Out-of-State and Foreign Students

1. Out-of-state and foreign students are accepted according to a percentage. This percentage is based on the total full-time enrollment. The College is required to meet its obligations to qualified Delaware students before reaching its maximum enrollment of out-of-state and foreign students.
2. 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 college should forward their transcripts early in the year preceding the semester in which they desire to enter. Furthermore, foreign students are advised to be well aware of their financial obligations.

E. Admission: State Residency Requirements

1. The residency status of all students is determined during the time of their first registration at the College.
2. Students who are minors are considered to be resident students if their parents or legal guardians have been residents of Delaware for at least one year.
3. Adult students (at least 18 years of age) are considered to be residents of Delaware if they have been residents of the state for at least one year prior to the date of their first enrollment.
4. A student may not change his residential status during the academic year. He may, however, apply for a change in status for subsequent years by making a written request to the Admissions Office. This application must be accompanied by documentary evidence that confirms legal residency in Delaware.

F. Admission: Transfer Students for Advanced Standing

1. The Admissions Office will consider applications from students seeking to transfer from other four-year colleges, universities, and junior colleges. A transfer student must complete a minimum of 30 hours of academic work at Delaware State College.

2. Transfer students who seek a degree must satisfy all entrance requirements. A statement of honorable withdrawal from his former institution must be provided for each applicant. All transfer applicants must provide complete official transcripts covering all high school and college work completed.
3. The transcripts of each individual accepted for transfer will be evaluated in relation to the requirements of the specific academic program for which the student is accepted. Courses to be transferred must be substantially equivalent to respective courses in the degree program of Delaware State College. Credit will not be granted for correspondence courses. In instances where courses from other colleges only partially fulfill general education requirements, students will be required to make up the shortage in credit hours in the same or other (elective) courses.
4. Course grades less than "C" will not be accepted as transfer credit, except for continuing one-year courses (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.
5. 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 are not permitted to matriculate for a degree at Delaware State College.**
6. A \$10 non-refundable transcript evaluation fee is charged to all transfer applicants. Once the applicant is enrolled, the fee is credited to his account.



Track Meet

G. Admission: 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. All applications should be directed to the Office of Admissions.
2. *Students Seeking Credit But Not a Degree*—Mature high school graduates who seek college credit but have no degree aspirations must, when applying to the Admissions Office, present a letter from their former high school or college academic dean certifying that they have graduated from high school or attended college as a regular enrolled student. Special students are not required to file a transcript of their high school or college work and are not permitted to take more than twelve credit hours per semester. These students must abide by all rules and regulations of the college. If such students wish to transfer to a degree program they must apply to the Office of Admissions and fulfill all requirements for admissions to the college in a degree program. A special student is a person who has not been admitted for a degree.

H. Admission: Reinstatement of Former Students

Students wishing to return to the College after voluntary or involuntary absence of one semester or more must make written application to the Director of Admissions not later than August 1st for the first semester of the academic year in which they plan to enroll.

I. Admission: Advanced Placement and Advanced Credit

1. Entering freshmen who have had the opportunity to do advanced work may receive advanced placement.
2. During the summer prior to registration or during the opening week, (Freshmen Orientation Week) freshmen take placement tests in various fields. Registration and Placement are based on the results of these tests. At the present time, however, no advanced credit is awarded to students for this work.

J. Admission: Summer School and Evening Program

For information concerning these programs, interested persons should refer to the Summer School Bulletin or the Evening College Catalog.



Art Class

FINANCIAL REGULATIONS AND STUDENT EXPENSES

GENERAL COLLEGE FEES

The charges listed below are paid to the College. They do not include such items as transportation, textbooks, personal items, social affairs, etc. Students are advised to estimate approximately \$200 to \$250 per school year as additional expense to cover such items. This estimated range, is of course, entirely dependent upon individual circumstances and the student's tastes.

	First Semester	Second Semester	Total For Year
1. Comprehensive College Fee	\$142.90	\$142.90	\$285.80
Medical Insurance Fee*	34.38		34.38
Student Activities Fee**	16.00	16.00	32.00
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TOTAL (All Full-Time Students)	\$193.28	\$158.90	\$352.18
2. Tuition (Out-of-State Students)	\$287.50	\$287.50	\$575.00
3. Room and Board	\$437.50	\$437.50	\$875.00
4. Special Fees			
Application Fee			\$ 10.00
Student Teaching Fee***			60.00
Graduation Fee			20.00
Late Pre-registration Fee			15.00
Late Registration Fee			5.00
Transcript Fee			1.00
Transfer Evaluation Fee			10.00
Residence Damage Deposit			20.00
5. Special Student Fees			
Registration as a part-time or special student			10.00
In-State (Per Credit Hour)			15.00
Out-of-State (Per Credit Hour)			30.00

*Student Insurance is required of all full-time students. This Insurance covers, with limitations, medical and hospital expenses as provided by a master group contract with Blue Cross and Blue Shield of Delaware. The Insurance fee is pro-rated for students starting at mid-year. This required fee provides coverage for nine (9) months. Students may obtain twelve (12) month coverage by making application to Delaware Blue Cross and paying an additional fee.

**The Student Activities fee is used to support the SGA, Student Newspaper, Lyceum program, Yearbook and Program Board Activities in accordance with priorities as recommended by the Student Government Association and approved by the Dean of Students.

***Student Teaching fees are to cover the costs of special supervision and stipends for participating teachers. Students participating in the practice teaching program are required to provide their own transportation. Boarding students who have no means of transportation will be assisted by the College for an additional fee of \$30 per 8-week period.

SPECIAL AND PART-TIME STUDENTS

Special and part-time day students are required to pay a registration fee of \$10.00 per semester. Course fees are based on the number of credit hours for the course taken at the rate of \$15.00 per credit hour for students who are residents of Delaware and \$30.00 per credit hour for students not residents of Delaware. Fees for special courses not a part of the regular offering may be higher depending upon circumstances.

SCHEDULE OF PAYMENTS REQUIRED

All fees, tuition and room and board charges must be paid at time of registration. Credits for scholarships and Grants-In-Aid will only be considered when the scholarship or Grant-in-Aid has been approved by the Financial Aid Officer in advance of registration.

FIRST SEMESTER 1974-75

	<i>Advance Deposit</i>	<i>Due On or Before Registration</i>	<i>Total For Semester</i>
In-State Students			
Boarding	\$25.00*	\$605.78	\$630.78
Non-Boarding	25.00	168.28	193.28
Out-of-State Students			
Boarding	\$50.00*	\$878.28	\$928.28
Non-Boarding	50.00	430.78	480.78

SECOND SEMESTER 1974-75

	<i>Advance Deposit</i>	<i>Due On or Before Registration</i>	<i>Total For Semester</i>
In-State Students			
Boarding	\$25.00	\$571.40	\$596.40
Non-Boarding	25.00	133.90	158.90
Out-of-State Students			
Boarding	\$50.00	\$833.90	\$883.90
Non-Boarding	50.00	396.40	446.40

*Boarding students are required to pay an additional \$30. room deposit fee. For purpose and special conditions, see Room Deposit Fee on page 39.

Fees shown are those in effect at time of publication.

LABORATORY FEES

These fees are paid for certain courses to cover the cost of supplies and special facilities. 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 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 405	8.00
Home Economics 407	8.00
Home Economics 409	8.00
Physical Education 118	8.00
Physical Education 112	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.

PAYMENT OF FEES

All fees 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 as a convenience subject to their collection. Receipts issued are void if the check is returned unpaid regardless of reason and registration will be cancelled when checks taken in payment of the college charges are dishonored by the bank. Checks should be made payable to *Delaware State College*.

All charges must be paid at time of registration. Special credit against the amount due at registration will be given in those cases where students are receiving Federal or State Aid in the form of scholarships, grants, or loans upon written confirmation received from the granting Federal or State Agency.

Failure to have paid in full any amount due the College prior to the end of a semester for whatever reason will cause all grades and credits to be withheld until payment is made in full.

ADVANCE DEPOSIT

An advance deposit of \$50.00 for out-of-state students and \$25.00 for Delaware residents must be paid at the time accepted by the College for admission but in any event not later than June 30 (July 15 for returning students) for the fall semester and December 15 for the spring semester. This deposit is refundable anytime *before* the due dates shown. It will be credited against fees due as shown by the *Schedule of Payments*. If the advance deposit is not paid when due by returning students who have preregistered, the student will be required to register on a first-come, first served basis at the beginning of the semester and the availability of courses and dormitory accommodations cannot be guaranteed by the College.

CONTRACTUAL OBLIGATION OF BOARDING STUDENTS

In order to provide a boarding service for all students at the lowest possible cost, certain rules of conduct must be followed and will be strictly enforced. Those who wish to live at Delaware State College as resident students must contract with the Business Office to pay for room and board for the full semester and agree to abide by the rules of conduct as established for the dining room. All meals served in the dining room will be cafeteria style and students will be required to remove their own soiled dishes from the dining tables. Students will not be permitted to eat in the dining room without showing an identifying meal ticket issued by the Food Service Department. Students are expected to respect the rights of others at all times. Should any student be found guilty of breaking these rules, his or her privilege to room and board on

campus will be terminated by action of the Dean of Students and charges paid in advance will be refunded on a prorated daily basis. No credit is given for meals which a student fails to take while he is in a boarding status.

A boarding student who wishes to change his status to that of a commuting student may do so during the first half of the semester. Applicants for change of status will be given a pro rata credit for the remaining days in the semester from the date they leave the residence hall. Any difference between the charges and credit given must be settled immediately in cash.

ROOM DEPOSIT FEE

Persons who have applied and have been accepted by the Admissions Office will receive an application for a Residence Hall Permit. In addition to the Advance Deposit, prospective students who wish to live in a residence hall must also send a room deposit of \$30.00. Included in the room deposit fee is a key deposit of \$7.00, Residence Hall Fee of \$1.50 and \$1.50 dues for Men's Council and/or Women's Senate activities, and a Residence Hall Damage Deposit of \$20.00. The key deposit is refunded at the end of the school year when the room key is returned. Any balance of the damage deposit remaining after deducting for damages will be refunded at the end of the school year. The room deposit should be made payable to Delaware State College in a separate check or money order properly identified as the room deposit and sent at the same time as the advance deposit for registration.

The room deposit does not guarantee the assignment of a room, but, it must accompany the application for assignment. The Room deposit is refundable to persons who decide not to enroll.

All continuing students should indicate their intention to reside on campus for the next year by obtaining an application and paying the Room Deposit Fee of \$30.00 at the time of preregistration or payment of Advance Deposit.

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—The Comprehensive College Fee less a registration charge of \$25 plus the Medical Insurance Fee, the Student Activities Fee and Tuition (if any) will be refunded. Boarding charges are refunded on a pro-rated daily basis.

FROM ELEVEN TO THIRTY DAYS INCLUSIVE—Two-thirds of the Comprehensive College Fee after deducting a registration charge of \$25, plus two-thirds of the Student Activities Fee and two-thirds of any tuition paid will be refunded. Boarding charges are refunded on a pro-rated basis. All other fees and charges are non-refundable.

TEXTBOOKS

Textbooks are sold in the College Bookstore. All sales are for cash. Checks are accepted only for the exact amount of the purchase from the maker of the check with acceptable identification. Arrangements may be made with the Business Office to charge the purchase of books only if the student has an existing credit balance on his or her account.



Board of Trustees: Absent: Mr. William Dix, Vice-President, Dr. Burt C. Pratt

ACADEMIC REGULATIONS

Delaware State College is a fully-accredited, four-year, liberal arts institution that grants the Bachelor of Arts (B.A.) degree and the Bachelor of Science (B.S.) degree. The requirements for the two degrees insure that each student develops skills in the broad fields of human knowledge and in a major field. The General Education Program has been planned to provide the student with a sound foundation in the liberal arts and sciences.

There is a wide selection of major fields and a variety of courses in other disciplines offered at the College. The College provides major study in the areas listed below:

Agricultural and Natural Resources

- Agricultural Education*
- General Agriculture
- Plant Sciences
- Park Administration and Natural Resources
- Wildlife Management
- Fisheries Management
- Soil and Water Management
- Vegetation Management
- Environmental Health

Art Education*

Biology

- General Biology*
- Biology with emphasis in Botany

Chemistry*

Education

- Early Childhood Education*
- Elementary Education*
- Engineering

English*

Foreign Languages

- French*
- German*
- Spanish*

Economics and Business

Administration

Economics

Accounting

General Business Administration

Certificate I Curriculum in

Business Education*

Certificate II Curriculum in

Business Education*

Certificate III Curriculum in

Business Education*

Secretarial Science

Distributive Education*

Engineering Administration**

Health and Physical Education*

Health and Physical Education*

Health Education*

Pre-Study for Medically Allied Fields

Recreation

History*

Home Economics

Home Economics Education*

Child Development and Family Relations

Foods and Nutrition

General Home Economics

Clothing, Textiles, and Related Arts

Mathematics*

Music Education*

Physics*

Civil Engineering**

Electrical Engineering**

Mechanical Engineering**

Psychology

Sociology and Urban Affairs

*Teaching Major Available

**Cooperative Engineering Program

Students interested in pre-medicine should major in one of the Natural Sciences.

NOTE: For each curriculum option, departmental advisors will furnish a detailed four year curriculum guide.

FRESHMAN DIFFERENTIAL (TRACK) PROGRAM

The Freshman Differential Track Program is an attempt to provide each freshman with a program adjusted to his ability and preparation. Based on their performance on the battery of tests taken during their first week at the College, all freshmen are grouped into three tracks.

Track A designates students who show superior educational achievement through their past academic records and test results.

Track B designates students of average educational achievement.

Track C consists of students whose past educational performance and entrance test scores indicate below average educational achievement.

Students in Tracks A and B carry a normal semester hour load. Students in Track C carry a reduced load of twelve semester hours. Any Track C student with a grade point average below 1.70 at the end of the freshman year may attend the Summer Session in order to bring his average up to at least (1.70). In such cases, the Summer Session grades will be included in the second semester average. Furthermore, any student in Track C who earns an average of 1.90 or better during the second semester is allowed a third semester in order to bring his average up to 1.70 (or better) so that he can remain in school. The program also provides for students to be transferred from one track to another, depending upon their academic performance during the year.

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.

A student dismissed because of Track C regulations may be admitted to the Evening School Program or Summer School Program at Delaware State College. Upon the satisfactory completion of twelve (12) credit hours with an average of 2.00 or better, or twenty-four (24) credit hours of acceptable work at another institution, he will be considered for readmission to the Day Session upon application to the Office of Admissions.

REGISTRATION

Students failing to register prior to the date that classes begin are charged a late registration fee of five dollars. Continuing students must pre-register on the prescribed dates of each semester or pay an assessed fee of \$15.00.

Students who register for courses with Incomplete ("I") grades for previous courses taken are cautioned that they do so at their own risk. Upon the assignment of final grades for such courses proper adjustments are made in accordance with regulations regarding course load and probation.

Students cannot receive credit for a course in which they are not officially registered.

CREDIT HOURS

Academic work in the College courses 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. In addition, credit will not be granted for the same course twice.

CHANGE IN STATUS

Students having a change in major, change in name because of marriage, change in address or telephone number, must fill out the proper form procured in the Registrar's Office.

CLASSIFICATION OF STUDENTS

0 – 29 Hours	Freshman
30 – 59 Hours	Sophomore
60 – 89 Hours	Junior
90 Hours and Above	Senior

GRADING SYSTEM

A grade is reported to each student for each course in which he is enrolled. That grade is an indication of the quality of the student's performance in the course.

Mid-Semester grades will not be issued. Instead, instructors will deliver to the Records' Office the names of students who are performing at the "D" or "F" level at the end of the fifth week of the semester.

Students will be notified immediately by the instructors of their conditional grade standing. Reports will be sent to parents when the student has at least one "F" grade or two "D" grades.

Final grades become a part of the student's permanent record and are also used in computing his grade point average. Students who earn poor grades in certain courses can retake them. If a higher grade is achieved, the higher grade will replace the lower as the grade of record for the course. The grade point average (GPA) is computed by dividing the total number of quality points received by the total number of hours attempted.

The Grading System used at Delaware State College is shown below:

GRADE	EXPLANATION	QUALITY POINTS
A	Excellent	4
B	Good	3
C	Fair	2
D	Poor	1
F	Failure	0
I	Incomplete	Not Computed for Grade Point Average
W	Withdrew	Not Computed for Grade Point Average
WP	Withdrew Passing	Not Computed for Grade Point Average
WF	Withdrew Failing	0 (Computed for Grade Point Average)
Audit	Course Not Taken	
	for Credit	Not Computed for Grade Point Average
S	Satisfactory	Not Computed for Grade Point Average
U	Unsatisfactory	Not Computed for Grade Point Average
P	Satisfactory	Not Computed for Grade Point Average
F	Unsatisfactory	Not Computed for Grade Point Average

REMOVAL OF INCOMPLETES

Incomplete course work due to reasons clearly beyond the control of the student will yield the grade "I". This grade must be removed by the end of the first six weeks of the student's next semester in attendance, otherwise the grade "I" becomes an "F".

CLASS ATTENDANCE

No student may attend class unless he is officially registered.

All students are expected to attend punctually every scheduled meeting of each class in which they are registered except when serious illness or some other emergency prevents them. Absence from class for any reason does not excuse the student from responsibility for any work performed or assigned. No student's grade may be reduced solely because of absences as the grade assessed in any course must reflect only the student's academic performance.

ACADEMIC LOAD

The normal minimum load of a full-time matriculated student is twelve credit hours and the maximum is eighteen except where the curriculum of a department specifically calls for more than eighteen hours. Students wishing to take more than eighteen hours must get approval from the chairman of their major department.

AUDITING

Persons who wish to attend a course without receiving credit for it may audit the course with the consent of the instructor and the academic dean. As auditors, they are entitled to the advisory services of the instructor. Persons with a full-time load pay no additional fees for auditing. Persons carrying less than a twelve (12) credit-hour load are charged an auditing fee of \$15.00 per credit hour.

MAJOR ADVISORS

A student may be assigned to a faculty advisor in his major department. The advisor will meet with him each semester prior to registration and must officially approve his program before he can complete registration.

PROBATION, RETENTION, AND REINSTATEMENT

A student whose grade point average is below 1.70 during any one semester of work shall be automatically placed on academic probation for the succeeding semester with a reduced load of not more than twelve semester hours. A student on academic probation the second semester, who attends summer school, will have his summer school grades computed along with the grades he receives the second semester. If this average is 1.70 or above, the student will not be placed on academic probation.

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. A student who is on academic probation the first semester and does not earn the necessary 2.00 by the end of the second semester, may attend summer school to attempt to bring his average up to the required 2.00 in order to continue his studies at the College. 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. The student must earn a grade point average of 2.00 (C) during the semester of his re-instatement. If he fails to do this, he may be re-instated if he successfully completes 24 hours with a grade average of "C" or better at another accredited institution or 12 hours with an average of 2.00 (C) in the evening or summer school at the College. A 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.

ACADEMIC HONORS

DEAN'S LIST—The Dean's list includes those students who earned a scholastic average of 3.25 or above and who carried fourteen or more semester hours during the preceding semester.

GRADUATION WITH HONORS—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 of 3.50 to 3.74.

WITH HONOR for a scholastic average of 3.25 to 3.49.

No honor is awarded unless the candidate has attended the College for at least three years (90 semester hours).

HONORS FOR TRANSFER STUDENTS—Transfer students, being considered for academic honors, have a second index computed that is based on all work taken at the College and elsewhere (including failures and grades of first passing level that are not transferable). The lower of these two indexes is

considered the official scholastic index for purposes of academic honors and election to honor societies.

Honorable mention is awarded transfer students if they completed the last two years of academic work toward graduation (60 semester hours) at Delaware State College with a scholastic average of 3.50.

FINAL EXAMINATIONS

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

TRANSCRIPT OF RECORDS

The first transcript of a student's academic work is issued without charge. For each additional transcript, a fee of one dollar (\$1.00) is charged.

WITHDRAWAL FROM COURSES OR FROM THE COLLEGE

Students who wish to withdraw from a course or from the College must obtain the appropriate withdrawal forms in the Counseling Office.

A student who withdraws officially from a course or from the College during the first twelve weeks of the semester will be reported to the Registrar's Office as "Withdrew". A student who withdraws after the Twelfth week of instruction will be assigned a grade of either "WP" (Withdrew Passing) or "WF" (Withdrew Failing), depending on the quality of his work in the particular course up to the time of his withdrawal. The cutoff date for withdrawing from classes for a given semester is announced in the Schedule of Courses for that semester.

If for any reason a student unofficially withdraws from a course/s or from the College, the letter grade assigned will be "F" for those course/s involved.

SPECIFIC DEGREE REQUIREMENTS

COURSE AND CREDITS—The minimum number of semester hours required for graduation is one hundred and twenty-one (121). This number varies with many of the major programs. The candidate must satisfactorily complete the requirements of his major study area in which he is enrolled to be eligible for graduation.

Of the minimum total of 121 semester hours, forty-one (41) hours of general education courses must be completed by the candidate. General education requirements are distributed as follows: ten (10) hours of basic intellectual skills, twelve (12) hours of humanities, six (6) hours of mathematics, six (6) hours of natural science and eight (8) hours of social science. (For further details see General Education Requirements located elsewhere in this catalog.)

GRADES AND GRADE POINT AVERAGE—The following grades and grade point average must be earned by the candidate:

1. A minimum overall grade point average of 2.00 (C).
2. A grade of "C" in each course in his field of specialization.

3. A minimum of 2.00 (C) grade point average for the last thirty (30) semester hours of work at this College. Except in computing honors, transfer grades are not included in computing a student's average at Delaware State College.

STUDENT TEACHING—A student may not do student teaching unless he has fulfilled all student teaching requirements as required by the College.

Students transferring from other institutions with the intent to register at Delaware State College for student teaching must have a formal agreement initiated between Delaware State College and their respective institutions.

All candidates are assigned to student teaching on a full-time basis for eight weeks. An additional two weeks are required of all candidates to be spent in preparation and evaluation. In most cases students will live on campus or at home during their student teaching period. However, in some instances it may be necessary for students to maintain living quarters in the community in which they are assigned to student teach.

During the time of student teaching, students are actually engaged in teaching assigned classes and are under the supervision of the Delaware State College Education Department and a cooperating teacher in the school in which they teach. In addition, the respective departments may assign supervisors or coordinators.

WRITING PROFICIENCY EXAMINATION—All students who do not make a minimum grade of "C" in English 101 or 102 or English 103 or 104 will be required to take and pass a writing proficiency examination as a part of their graduation requirements. Students will become eligible to take this test at the end of the sophomore year. The test will be administered by the English Department.

FOREIGN LANGUAGE—For those students electing or required to take a foreign language, two full years (12 semester hours) in this language on the College level must be completed. Students presenting three or more high school units of work in a single foreign language may be exempted from the first and second years of language courses on the basis of satisfactory performance on the Modern Language Association Cooperative Language Test—Level I and Level II.

PHYSICAL EDUCATION—Two (2) semester hours in physical education must be earned by the candidate. Students who are certified by their physician as being unable to participate in the regular physical education program must enroll in modified physical education classes.

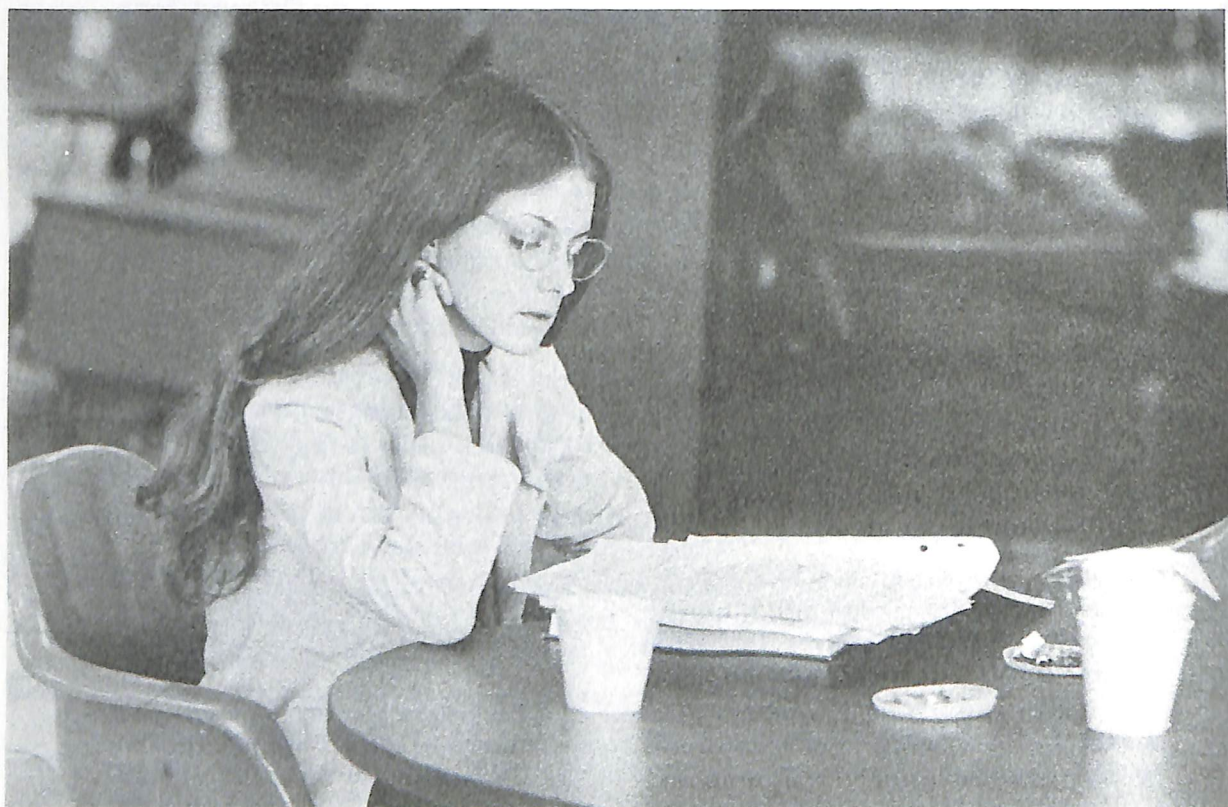
Normally, students must complete P.E. 100 before electing an additional semester hour from the other 100 level courses. Students twenty-seven (27) years of age and over are exempted from the P.E. 100 requirement. These students must elect two (2) hours from the 100 level courses to complete their requirement. Veterans are not required to enroll in P.E. 100.

ELECTIVES—A student may select at least the minimum designated number of electives in accordance with his interests and major departmental requirements. He should do this in consultation with his faculty advisor.

APPLICATION FOR GRADUATION—Students who intend to graduate should complete an application for graduation in the Registrar's Office by October 15 of the year preceding graduation.

NOTE: Students who have met the requirements are eligible for graduation at the close of any semester. Degrees, however, are conferred only at the end of the second semester.

RESIDENCY—Students who transfer from other institutions must earn a minimum of 30 semester hours at Delaware State College.



Student Cafeteria — Study-Snack

GENERAL EDUCATION REQUIREMENTS

All students pursuing a course of study leading to the bachelor's degree are required to earn a minimum of forty-one (41) semester hours of general education, distributed as outlined below.

	<i>Hours</i>
BASIC SKILLS	10
Required of all:	
Eng. 101 English Composition or	
Eng. 103 Black Rhetoric	3
Eng. 102 Basic Study in Literature or	
Eng. 104 Black Prose and Poetry	3
Eng. 200 Speech	2
P.Ed. 100 Physical Education Orientation	1
P.Ed. A Physical Education Course on the 100 level	1
HUMANITIES	12
Required of all:	
Eng. 201-202 World Literature or	
Eng. 205-206 Afro-American Literature I and II	6
Six additional hours to be selected from:	
Art 101 Art Appreciation	3
Art 102 Fundamentals of Drawing and Design	2
Fr. 101-102 Elementary French	6
Fr. 201-202 Intermediate French	6
Ger. 101-102 Elementary German	6
Ger. 201-202 Intermediate German	6
Hons. 511-512 Freshman Colloquium	4
Hons. 521-522 Sophomore Colloquium	4
Mus. 100 Afro-American Music	2
Mus. 101 Introduction To Music	3
Any Two Philosophy Courses	6
Span. 101-102 Elementary Spanish	6
Span. 201-202 Intermediate Spanish	6

MATHEMATICS

Required of all: Six hours.

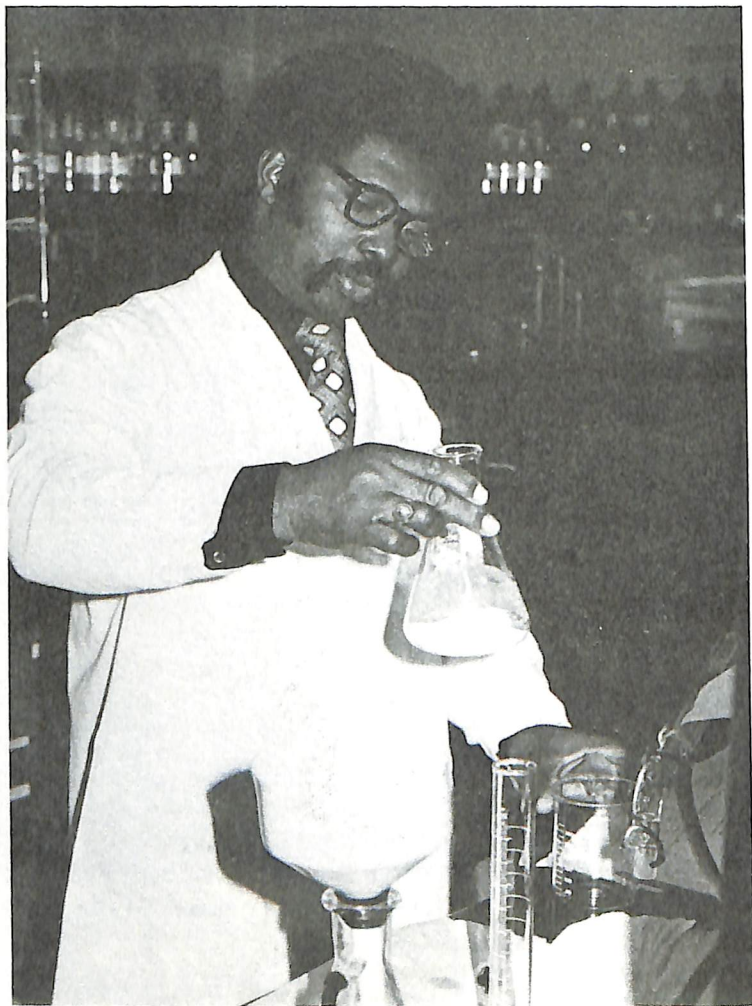
A minimum of six hours to be selected from course offerings in mathematics excluding mathematics 105-106. Only a student who is majoring in elementary education may take mathematics 105-106 to satisfy the mathematics requirements. A student who selects Business Education as a major may take Business 211 to satisfy three hours of the mathematics requirements.

NATURAL SCIENCES MINIMUM OF 6 HOURS

Required of all: A minimum of six hours selected from:

Biol. 100	Introduction to Biology and one of the following:	3
	An agriculture course with lecture and laboratory	3
	*A biology course above the 100 level with laboratory	3-4
	A natural resources course with lecture and laboratory	
	or	
Sci. 201	Physical Science Survey	4
Biol. 101-102	General Biology	8
Chem. 101-102	General and Elementary Analytical Chemistry	8

*Students who wish to select a biology course above the 100 level to fulfill the natural science requirement must have a grade of "C" or above in Biology 100 and obtain the consent of the instructor of the course.



Biology Laboratory

Phys. 101-102	and 101L-102L Introduction to Physics	8
Phys. 201-202	and 201L-202L General Physics	8
SOCIAL SCIENCES		8
Required of all:		
Educ. 101	Freshman Orientation	1
Six hours to be selected from the following, three hours of which must be in history:		
Econ. 201	Principles of Economics	3
Hist. 101	World Civilization To Eighteenth Century	3
Hist. 102	World Civilization Since Eighteenth Century	3
History 107	Afro-American Experience	3
History 108	Recent Black Experience	3
Hist. 201	American Civilization to 1865	3
Hist. 202	American Civilization Since 1865	3
P.Sci. 103	Introduction to Government	3
Hons. 531	Junior-Senior Colloquium	2
Hons. 532	Junior-Senior Colloquium	2
Hons. 541	Junior-Senior Colloquium	2
Hons. 542	Junior-Senior Colloquium	2
Psy. 201	Introduction to General Psychology	3
Soc. 201	Introduction to Sociology	3



Library

SPECIAL PROGRAMS

A growing institution of higher learning, Delaware State College is vitally concerned about its relationship with the City of Dover and the State of Delaware. Accordingly, the College generally opens its facilities to the community, and it is becoming a focal point for cultural, educational, and social affairs in the Dover area. In addition, it participates in several programs with objectives that aim for the continued development and improvement of the social and natural environment of the surrounding community.

DEPARTMENT OF MATHEMATICS—The department offers a tutorial program which is open to all students who wish assistance in mathematics courses in which they are enrolled.

Tutors for the program are selected from the majors in Mathematics and work under the supervision of the faculty of the Department of Mathematics. Tutorial services are available daily with the time and place scheduled and posted by the department.

MAINTENANCE TRAINING PROGRAM—The College Maintenance Department directs formal classes in the maintenance of grounds and buildings. These classes are open to interested persons from the Dover community and surrounding areas and are designed to provide basic job training for persons seeking employment as institutional maintenance workers.

UNIVERSITY CITY SCIENCE CENTER—Delaware State College is currently affiliated with the University City Science Center of Philadelphia, Pennsylvania. The Science Center is a non-profit corporation owned by several Delaware Valley universities, colleges, medical schools, and hospitals. Its purpose is to increase the capacity of the participating institutions to carry out research and development projects that seek to solve problems of industry, government, and academic institutions with the aid of the latest scientific knowledge, equipment, and techniques.

As a participating institution, Delaware State College is acquiring access to the facilities at the Center through instantaneous communication devices located on campus. At present, the University City Science Center has completed or is in the process of completing several million dollars worth of research contracts with industrial organizations, governmental agencies, and academic institutions.

WRITING LABORATORY—For students with deficiencies in basic writing skills, the College maintains a Writing Laboratory under the direction of the English Department. The laboratory aims at resolving a student's writing problems by giving him individual training in writing and by having him write extensively at his own pace while working with the proper materials and under the direction of an instructor. Often, writing assignments in the laboratory are drawn from current work in the student's other classes, especially the English class.

While the Writing Laboratory is designed to meet the needs of incoming freshmen, it will also serve all students who need help regardless of classification. A student may be assigned to the Writing Laboratory on the basis of entrance test results, or he may be referred by one of his instructors. However, any student who desires instruction or aid in improving his writing skills may be able to attend the laboratory on a voluntary basis.

HONORS PROGRAM—In order to meet the educational needs and provide an enriched course of study for students who demonstrate exceptional academic ability, Delaware State College has established an Honors Program. This program consists of colloquia, seminars, special departmental studies, and field trips. These events are conceived and planned with an awareness of the topics most discussed and debated by students today. An environment of complete intellectual and academic freedom is provided.

Students are invited to participate in the Honors Program on the basis of test scores, high school records, teacher recommendations, or superior academic achievement on the college level.

CHILD DEVELOPMENT LABORATORY—The Department of Education operates a nursery and kindergarten for three, four, and five-year old children. The laboratory school is fully staffed by personnel qualified to give the children a fulfilling learning experience. The school is used as a laboratory in conjunction with the major in early childhood education and home economics. The well-equipped facility has an observation room for use by students of the College and parents of the children.

MILITARY SCIENCE PROGRAM—The College provides a limited voluntary, two-semester program in military science for those students desiring some military experience at the college level. Participation in this program does not obligate students to military service of any nature. Military Science and Tactics is an orientation program covering the activities of the Armed Forces, primarily the Army. Areas that are considered in the program include organization, supply procedures, leadership, guided missile studies, and military justice. Guest speakers from the Navy, Air Force, and Marines are presented in addition to Army personnel during the second semester.

EVENING SCHOOL—The evening program is designed to meet the needs of persons who wish to further their education, but because of work or finances cannot enroll in the regular day session. Teachers in service may take advantage of this program to meet city and state certification requirements, or to improve their educational background. Others may use the evening program for the purpose of broadening and enriching their cultural or intellectual interests. Classes are planned to meet the educational needs of mature adults. A separate bulletin for the evening school is issued by the College and can be obtained by writing to the Director of the Evening School. Evening students with degree aspirations must apply for transfer into a regular degree program through the Admissions Office.

SUMMER SESSION—A summer session is offered for students who wish to take additional courses or make up unsatisfactory grades. The session is six weeks long and residence halls and dining facilities are maintained during this period. Course offerings are announced in the spring, and the normal load is six to eight semester hours. Those students who were enrolled during the second semester and attend summer school at the Delaware State College or any other accredited college with proper approval will have their summer school grades computed along with the second semester grades to determine their grade point average. Students currently enrolled in other colleges who wish to attend the summer session at Delaware State College must present written approval from the dean or registrar of their home campus. Further information may be obtained by writing to the Office of the Academic Dean, Delaware State College.

SUMMER SCIENCE INSTITUTE—A summer Science Institute for Delaware High School students is sponsored by Delaware State College in cooperation with the State Department of Public Instruction and scientific industries of Delaware. The primary objective of the Institute is to strengthen the mathematical and scientific background of science-oriented high school students who plan to pursue a higher education. The Institute is conducted by faculty members of the College's Biology, Chemistry, Mathematics, Physics and Astronomy Departments. Participants in the Institute have an opportunity to use the facilities, instruments, and equipment in these departments and to participate in all areas of campus life. Inquiries should be directed to: Director, Summer Science Institute, Delaware State College, Dover, Delaware 19901.

ENVIRONMENTAL EDUCATION—College students, in-service teachers, and others interested in environmental education have the opportunity to develop and test curriculum materials on a continuing basis. Using the State Plan for Environmental Education as a basis for organization, the workshop is preparing materials which fit into the conceptual scheme developed by the Population-Environment Curriculum Project in the College of Education at the University of Delaware. Activities are coordinated through the office of the Supervisor of Science and Environmental Education, State Department of Public Instruction.

Opportunities to enroll for credit are provided by three multidisciplinary courses (see catalogue descriptions):

1. Environmental Education Workshop
2. Population-Environment Curriculum, K-12
3. Man and His Planet (Lecture-Seminar Series)

ENVIRONMENTAL MINOR—In recognition of the growing general interest in environmental topics and the newly recognized importance of environmental information to citizens in general, an Environmental Minor has been established. *The minor is available to students of any major and consists of 15 credit hours of study as outlined below:*

THREE CREDITS FROM THE FOLLOWING GROUP:

Basic Ecology (Biology 105 and Natural Resources 105)
Ecology (Biology 205 and Natural Resources 205)
Stream Ecology (Natural Resources 309)
Urban Ecology (Natural Resources 106)

TWELVE CREDITS FROM THE FOLLOWING GROUP:

Soil Science (Ag. 208)
Human Ecology (Soc. 330 and N.R. 330)
Limnology (Biology 313 and N.R. 313)
Water Chemistry-Basic Principles (Chemistry 203)
Water Chemistry-Advanced Techniques (Chemistry 409-410)
Interpreting the Natural Environment (N.R. 400)
Human Geography (Geo. 101)
Economic Geography (Geo. 102)
Contemporary Economic Problems (Economics 314)
Anthropology (Soc. 205)
Soil and Water Management (N.R. 401)
Vegetation Management (N.R. 402)
Wildlife Management (N.R. 403)
Principles of Fisheries Management (N.R. 405)
Man and His Planet (N.R. 453-454)
Population-Environment Curriculum, K-12 (Natural Resources 455)
Environmental Education Workshop (Natural Resources 452)

SPECIAL WORKSHOPS—The numbers 460-469 have been designated to be used by each academic department for special programs or for workshops within the department. The description of these workshops will be furnished to the Records Office and the Dean's Office at the beginning of each program.

CULTURAL SERIES

Through the cultural series, a number of activities that enhance the cultural life of the College and community are sponsored by the Program Committee and the Student Center Program Board. The Committee and Board are composed of members of the faculty and students.

The cultural series brings outstanding concert artists for cultural enrichment to the campus and the community.



Graduating Ring Designs

ACADEMIC DEPARTMENTS AND COURSE DESCRIPTIONS

The academic program of the College is composed 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.

This section includes specific requirements for the various academic programs and descriptions of courses offered by each department at the College.

COURSE NUMBERING SYSTEM

In numbering courses in the curricula, a three-digit number is used. The first digit of a course number indicates the level of the course. Courses beginning with "1" are primarily freshman level; those beginning with "2" sophomore level; those beginning with "3" junior level; those beginning with "4" senior level. The last digit in the course number generally refers to the semester that the course is offered. If the last digit is an odd number, the course is usually offered in the first semester; if it is an even number, the course is usually offered in the second semester. Hyphenated course numbers (e.g., English 101-102) represent two semester (year) courses.

THE DEPARTMENT OF AGRICULTURE AND NATURAL RESOURCES

Professors: *Dill, *Bodola
Associate Professors: Jones, Washington (Chairman)
Assistant Professor: **Howell
Instructor: Bell

The Department of Agriculture and Natural Resources offers professional courses designed to prepare students for educational service and technical courses designed to develop production and management skills. The agriculture curriculum offers career options in Agricultural Education, General Agriculture, Plant Sciences, and Agri-Business. The natural resources curriculum offers career options in Fisheries Management, Environmental Health, General Resource Management, Park Management and Recreation, Soil and Water Management, Vegetation Management, and Wildlife Management. In addition, a student may elect options in both agriculture and natural resources which will prepare him for graduate study.

All students who select a major within the Department of Agriculture and Natural Resources must complete the general education program as required of all students (See General Education Requirements). Students planning to attend a graduate school should elect a language to meet graduate school language requirements.

CURRICULUM OPTIONS IN AGRICULTURE

A major in agriculture requires a minimum of thirty hours of work selected from agriculture, natural resources, and biology. Students majoring in Agricultural Education must take all courses listed in the schedule of requirements, which may be obtained from the head of the department. In the Agri-Business curriculum, required business courses are part of the thirty-hour minimum requirement.

AGRICULTURE EDUCATION In addition to general education requirements for an option in Agriculture Education, the following courses are required: Agriculture 206, 208, 219, 317, 304 or 309, 301 or 313, 210 or 310; Agriculture and Natural Resources 101, 102 Natural Resources 205; Education 405, 411, 412 and 415. To meet the minimum of thirty semester hour credits of technical Agriculture one must select courses from at least three of the following areas: Agriculture Economics, Poultry Science, Animal Science, Horticulture, Agricultural Mechanics or Agronomy.

GENERAL AGRICULTURE In addition to general education requirements for an option in General Agriculture these courses are required: Agriculture 206,

*Part-time
**Sick Leave

208, 219, 317, 301, 313, 304 or 309, 311 or 416. Agriculture and Natural Resources 101, 102, 321 and 350. To meet the thirty-hour minimum requirement of this major and fulfill the elective hours, these courses are suggested: Any Agriculture course: Biology 303, 306; Natural Resources 201; Sociology 305; Chemistry 301, 302; Economics 201; Geography 101.

AGRI-BUSINESS In addition to general education requirements, for an option in Agri-Business, these courses are required: Business 108, 205-206, 303, 310, 401; Agriculture 207, 208, 301, 304, 309, 313, 317, 420; Economics 201, 307, 414; and Natural Resources 205.

PLANT SCIENCE In addition to general education requirements, for an option in Plant Science these courses are required: Agriculture 206, 208, 210, 219, 308, 310, 317, 319, 419; Agriculture and Natural Resources 101, 102, 321, 350 and Biology 202. To meet the thirty-hour minimum requirement of this major and fulfill the elective hours, these courses are suggested: Any Agriculture course; Natural Resources 201, 202, 401; Biology 303, 306; Economics 201; Geography 101.

PRE-VETERINARY MEDICINE In addition to general education requirements, for an option in Pre-Veterinary Medicine, the required courses are: Agriculture 206, 207, 301, 302, 313, Natural Resources 205, Biology 201, 303, 305, 307, Chemistry 301, 302, Mathematics 201, 202, Physics 201, 202, Agriculture-Natural Resources 450. To meet the minimum requirement of this option and fulfill the elective hours, these courses are suggested: Agriculture 308, 309 and 317; Natural Resources 311, 312 and 403; Economics 201; Geography 101.

COURSE DESCRIPTIONS

AGRICULTURE (29)

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. INTRODUCTION TO ANIMAL SCIENCE. 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 on 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.

207. 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 workstock. The balancing of rations. Two lectures and one laboratory period per week. Credit, three hours.

208. SOIL SCIENCE. A study of soils, their physical and chemical characteristics, with special emphasis on those factors which affect plant growth. Soil formation, the use of fertilizers, and soil and water conservation are considered. Special emphasis is placed on the soils of Delaware and their management. Two lectures and one laboratory period per week. Prerequisite: College Chemistry or consent of instructor. Credit, three hours.

210. LANDSCAPING. Theory and practice of landscape design with special application to the 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. Prerequisite: Agriculture 301.

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 study of parasitic and nonparasitic diseases. Fungal, bacteria, and virus diseases will be considered. Damage due to nutrient deficiencies, air pollutants, and other environmental causes will be studied. Economically important insects will be evaluated for plant damage. Two lectures and one laboratory period per week. Offered in alternate years. 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. Offered in alternate years. 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.

313. DAIRYING. Methods of 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 the 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. FUNDAMENTALS OF CROP PRODUCTION. An introduction to the fundamentals of crop science and the study of the more important field crops. Emphasis will be placed on the affects of various cultural practices on plant growth. Crop distribution, culture, and breeding will be considered. Cropping systems will be developed and analyzed. Two lectures and one laboratory period per week. Credit, three hours.

319. HORTICULTURAL PLANT MATERIALS. Ecology, taxonomy, and landscape uses of herbaceous and wood plant materials. Lectures, laboratories, and field trips. 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 or organization, management, and evaluation in departments of agriculture in secondary schools are explored. 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.

420. FOOD DISTRIBUTION MANAGEMENT. A study of the application of administrative management principles relative to firms engaged in food distribution with emphasis on food retailing organizations. Credit, three hours.

CURRICULUM OPTIONS IN NATURAL RESOURCES

All majors in natural resources must complete the general education program as required of all students (See General Education Requirements). In addition, this major requires a minimum of thirty hours of work selected from Natural Resources, agriculture, and biology. In the case of Park Management and Recreation, physical education is required.

GENERAL RESOURCE MANAGEMENT In addition to general education course requirements, for an option in General Resource Management, these courses are required: Natural Resources 205, 321, 450, 451. To meet the 30-hour minimum requirement of this major and to fulfill the elective hours, these courses are suggested: Natural Resources 201, 202, 311, 312, 401, 402, 403; Agriculture 210; Biology 202, 303, 306, 308; Geography 101, Economics 201.

FISHERIES MANAGEMENT In addition to general education course requirements, for an option in Fisheries Management, these courses are required: Natural Resources 205, 314, 321, 404, 405, 450, 451. To meet the 30-hour minimum requirement of this major and fulfill the elective hours, these courses are suggested: Biology 200, 201, 204, 303, 307, 308; Natural Resources 201, 202, 309, 313, 403; Geography 101; Economics 201.

WILDLIFE MANAGEMENT In addition to general education course requirements, for an option in Wildlife Management, these courses are required: Natural Resources 205, 311, 321, 403, 450, 451. To meet the 30-hour minimum requirement of this major and fulfill the elective hours, these courses are suggested: Agriculture 210; Biology 200, 201, 202, 303, 308; Natural Resources 201, 202, 312, 313, 314, 400, 401, 402, 404, 405; Geography 101, Economics 201.

SOIL AND WATER MANAGEMENT In addition to general education course requirements, for an option in Soil and Water Management, these courses are required: Agriculture 208; Natural Resources 205, 313, 321, 401, 402, 450. To meet the 30-hour minimum requirement of this major and fulfill the elective hours, these courses are suggested: Biology 202, 204, 303, 308; Natural Resources 201, 202, 400; Geography 101; Economics 201.

VEGETATION MANAGEMENT In addition to general education course requirements, for an option in Vegetation Management, these courses are required: Natural Resources 205, 321, 402, 450, 451; Biology 202, and 306. To meet the 30-hour minimum requirement of this major and fulfill the elective hours, these courses are suggested: Agriculture 208, 210, 308; Biology 303, 308; Natural Resources 201, 202, 400, 401, 403; Geography 101; Economics 201.

PARK MANAGEMENT AND RECREATION In addition to general education course requirements, for an option in Park Management and Recreation, these courses are required: Natural Resources 205, 301, 400, 450, 451; Physical Education 204, 309, 407. To meet the 30-hour minimum requirement of this major and fulfill the elective hours, these courses are suggested: Agriculture 210; Biology 202, 308; Natural Resources 201, 202, 321, 401, 402, 403; Geography 101; Economics 201.

ENVIRONMENTAL HEALTH In addition to general education course requirements, for an option in Environmental Health, these courses are required: Natural Resources 202, 205, 313, 321, 451; Biology 305, 402. To meet the 30-hour minimum requirement of this major and to fulfill the elective hours, these courses are suggested: Natural Resources 201, 401; Biology 200, 204, 303, 307; Chemistry 203, 301, 302; Geography 101; Economics 201.

NATURAL RESOURCES (30)

105. BASIC ECOLOGY. The study of the fundamental relationships between the living and non-living worlds, with special emphasis on man's place in nature. Pre-requisites: Biology 100, 101-102, or consent of instructor. Not offered for credit to majors in Biology, Agriculture, and Natural Resources. Credit, three hours. Lectures, laboratory, and field trips.

106. URBAN ECOLOGY. Ecological relationships of the urban environment, with special emphasis on the biological effects of domestic and industrial pollution, population density and urban resources. Prerequisite: Biology 100 or 101-102. 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.

205. ECOLOGY. The study of organisms in relation to their environment. Two lectures and one 150-minute laboratory period per week. The course includes 3 week-end field trips. Offered in fall semesters. Prerequisites: Biology 101-102, or consent of instructor. Credit, three hours.

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

309. STREAM ECOLOGY. The study of aquatic organisms in relation to their environment. Two lectures and one 150-minute laboratory period per week. Prerequisites: Biology 100, 101-102, or consent of the instructor. Credit, three hours.

311. MAMMALOLOGY. The identification, classification, distribution, evolution, and life history of mammals. Prerequisites: Biology 100, 101-102, or consent of the instructor. Credit, three hours.

312. ORNITHOLOGY. A study of the field identification, ecology, and biology of the birds of the Delaware-Maryland-Virginia area. The course includes weekly field trips. Prerequisites: Biology 100, 101-102, or consent of the instructor. 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. Prerequisite: Biology 101-102 and Chemistry 101-102, or consent of the instructor. Credit, three hours.

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

330. HUMAN ECOLOGY. The social biology of man. A study of the interrelationships of man and his environment and the implications of the growth of human populations. Jointly offered by the Departments of Sociology and Agriculture and Natural Resources. Prerequisites: Consent of the instructors. Credit, 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 depletion. Effects of pesticides, pollution and drought. Two one-hour lectures and one two-hour laboratory per week and an all-day field trip. Prerequisites: Natural Resources 205 and Agriculture 209 or the consent of the instructor. Credit, three hours.

402. VEGETATION MANAGEMENT. A study of the theories and applications of plant ecology pertaining to the management of natural or semi-natural vegetation. Effects on vegetation of pesticides, fire, and mechanical manipulation. Consideration is given to management of right-of-way vegetation. Two 3-hour seminar-laboratories. Offered in alternate fall semesters. Prerequisite: Natural Resources 205 or consent of the 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: Natural Resources 205 or consent of the instructor. Credit, three hours.

404. FISHERIES SCIENCE. A study of the environmental and biological factors related to the physiology and behavior of fishes. Prerequisites: Natural Resources 205, 321, or consent of the instructor. 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: Natural Resources 205, 314, and 404 or consent of the instructor. Credit, three hours.

AGRICULTURE AND NATURAL RESOURCES

101-102. AGRICULTURE AND NATURAL RESOURCES SCIENCE. The role of Agriculture and Natural Resources in man's past, present, and future. Discussion of current topics in applied biology. Lectures, laboratories, and field trips. Credit, two hours.

321. BIOMETRICS. "A Study of the Application of Statistics to Life Sciences." Three one-hour lectures per week; Prerequisites: Biology 101-102 and one year of college mathematics or consent of the instructor.

322. BIOMETRICAL APPLICATIONS. Practical work in the use of statistics in the life sciences. To be taken concurrently with Psychology 322. Credit, one hour.

323. AGRICULTURAL AND NATURAL RESOURCES MACHINERY. A study of the design, construction, and maintenance of machinery used in agriculture and natural resources. Emphasis will be placed on mechanical principles, such as simple machines, mechanical advantage, and machine efficiency. Equipment selection will be considered from an economic and mechanical viewpoint. Two lectures and one laboratory period per week. Credit, three hours.

324. AGRICULTURAL AND NATURAL RESOURCES POWER. A study of the types of power available to operate agricultural and natural resources equipment. Combustion engines, electric motors and other power sources will be explored. Design, operating principles and maintenance will be emphasized. Measurements of power and power source selection will be considered. Two lectures and one laboratory period per week. 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 per semester.

441-442. SENIOR RESEARCH PROJECT. An opportunity to undertake a research project in Agriculture and Natural Resources. Prerequisite: Open to students with a 3.125 cumulative average in Agriculture and Natural Resources, and overall cumulative average of 2.75, and senior standing in Agriculture and Natural Resources. Credit, six hours.

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

451. AGRICULTURE AND 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 or consent of the instructor. Offered in spring semesters. Credit, three hours.



THE DEPARTMENT OF ART EDUCATION

Assistant Professors: Berhalter (Chairman)

Instructors: Satchell, Duff, Cook

The objectives in the major program of the Art Education Department are to prepare students who show a talent and interest in art to teach art in elementary and secondary schools; to prepare majors interested in advanced study by giving them a substantial background for such study; and to provide opportunities for in-service teachers to participate in varied creative experiences that will broaden their background for teaching.

CURRICULUM IN ART EDUCATION

ART EDUCATION MAJOR All students who select a major within the Department of Art Education must complete the general education program as required of all students (See General Education Requirements). In addition, the following courses are required: Psychology 201, 302, 316; Education 204, 411, 400 or 412; seven hours of free electives; Art Education 102A, 201, 203, 204, 301, 302, 303, 304, 305, 306, 311, 312, 313, 341, 342, 401, 402, 403, 404, 408 and 410 (Blocked).

COURSE DESCRIPTIONS

ART EDUCATION (05)

101. ART APPRECIATION. Designed to help the student develop an interest in the visual arts. Provides a means by which he can better understand the basis for evaluation and analyzing art and the art process through the use of lecture, prints, slides, and film strips. Credit, three hours.

102. FUNDAMENTALS OF DRAWING AND DESIGN. Designed for the non-teaching major to help him develop an ability in working with various art media such as charcoal, crayon, pencil, watercolor, and pastel. Credit, two hours.

102A. ART IN ELEMENTARY EDUCATION I. Designed to orient 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 varied art media. Credit, two hours.

301. MODELING AND SCULPTURE. Emphasis is placed on design in three-dimensional sculpture, utilizing clay, plaster, wood and other materials. Credit, three hours.

302. CERAMICS AND POTTERY. Various pottery processes are covered including throwing on the wheel, hand built pottery, and kiln firing techniques. Credit, three hours.

303. LETTERING AND COMMERCIAL ART. 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. Art 203 and 204 are prerequisites for Art Education majors. Credit, three hours.

305. INTERIOR DESIGN. A study in the problems of furnishing and decorating the home, with relationship to the environment. Spatial organization, designing with color and materials, the development of furniture styles and related topics are presented. Credit, two hours.

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

311. ART HISTORY I. Ancient Art. A study of the development of visual art forms from Prehistoric Cave Art through Mesopotamian, Egyptian, Aegean, Greek and Roman civilizations. Painting, sculpture, architecture, and crafts are considered. Credit, three hours.

312. ART HISTORY II. Medieval and Renaissance Art. A study of the development of the visual arts forms of the Early Christian, Byzantine, Medieval, Gothic, Renaissance, and Baroque periods. Emphasis is on the role of religion and the development of the humanist traditions as it affects the development of art. Credit, three hours.

313. ART HISTORY III. Modern Art. The development of the visual arts from 1750 to the present day. Emphasis will be on the many styles and objectives of contemporary artists and the antecedents. Credit, three hours.

314. ART HISTORY IV. Non-Western Art. The development of the visual art forms of Africa (except Egypt), Ancient North, Central and South America, Oceania, and Asia will be considered. Credit, three hours.

341. METHODS AND MATERIALS FOR ELEMENTARY ART TEACHERS. This course is designed to give prospective elementary art teachers current methods and practices in Art Education through discussions, readings, field trips, and visual media. Credit, three hours.

342. METHODS AND MATERIALS FOR SECONDARY ART TEACHERS. This course is designed to give prospective secondary art teachers current methods and practices in Art Education through discussions, readings, field trips, and visual media. Credit, three hours.

401. GRAPHICS. Introduces students to various methods of the graphic arts. Processes such as wood cuts, linoleum cuts, etching, engraving, 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. Prerequisites: Art 204 and 304 for Art Education majors. Credit, two hours.

404. STAGE DESIGN AND THEATRE ARTS. This course will deal with the visual elements of theatre production. Marionettes, puppets, and methods of stage production in elementary and secondary schools will also be considered. Credit, three hours.

406. PHOTOGRAPHY. Designed to give the student an introduction to camera and darkroom techniques. (Limited enrollment with permission of instructor. Prerequisites: course work in composition and design). Credit, two hours.

408. ADVANCED PAINTING TECHNIQUES. Emphasizes oil painting and newer media such as acrylics. This course will give further experience in painting as a means of expression, encouraging a variety of modes of expression. Prerequisites: Art 204, 304, 403. Credit, three hours.

409. INDEPENDENT STUDY. This course is designed to allow the qualified student, under the guidance of a faculty member, to pursue in depth a selected area of interest in art or art education. Prerequisite: Departmental approval. Credit, 1-4 hours.

410. SEMINAR IN ART EDUCATION. This course will enable students to discuss situations and problems encountered in their student teaching in the context of current concepts and philosophy in Art Education. Prerequisite: Education 412. Credit, one hour.

THE DEPARTMENT OF BIOLOGY

Professors: Ferguson (Chairman), *Bodola, *Dill

Assistant Professors: Sandridge, Taylor

Instructors: Bush, Wilds, Petrosky

The department aims to furnish those students desiring to major or minor in biology with the background necessary to become successful secondary school teachers and/or to develop within them an educational background for later specialized work in graduate and professional schools.

The objectives of the Biology Department are as follows:

1. To develop in the student an understanding of, a respect for, and some facility in the application of a clear and unbiased method of thinking that should characterize the intelligent individual.
2. To develop in the student an appreciation for and some understanding of the organic world.
3. 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.

CURRICULUM OPTIONS IN BIOLOGY

BIOLOGY MAJOR (NON-TEACHING) This program provides an adequate background for students planning to pursue studies in medicine, dentistry, graduate biology, laboratory technology, and related areas.

All students who select this major must complete the general education program as required of all students (See General Education Requirements). In addition thirty to thirty-three hours of credits are required in the major areas as follows: Biology 101-102, 200, 201, 204, 303, 304, 305, 401. In addition, the biology major must complete Chemistry 101-102, 301-302; Physics 101, 102.

*Part-time

BIOLOGY MAJOR (TEACHING) This program is designed for students who plan to teach biology on the secondary level.

Students who select this major must complete the general education program as required of all students (See General Education Requirements). In addition, thirty to thirty-three hours are required in the major area as follows: Biology 101-102, 200, 204, 205, 303, 400, 401, and two of the following three—202, 305, 306. Chemistry 101-102; Physics 101-102 (Prerequisite—Mathematics 104); Education 204, 405, 411, 412; Psychology 204, 302, 316.

*Listed in the Department of Agriculture and Natural Resources also.

BIOLOGY MAJOR (EMPHASIS IN BOTANY) This program is structured for students who wish to major in biology with emphasis in botany.

All students who select this major must complete the general education program as required of all students (See General Education Requirements). In addition, the following courses are required in the major area: Biology 101-102, 202, 205, 301, 303, 306, 321; Chemistry 101-102, 301-302; Physics 101-102. Several electives are suggested (9 or more additional hours are required): Agriculture 308; Biology 301, 305, 308, 313, 402, 451, 452; Natural Resources 202, 402, 450.

MINOR

BIOLOGY MINOR For a minor in biology, eighteen hours distributed as follows are required: Biology 101, 102, 303, and seven hours of electives in biology.

*With the consent of his advisor, 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 courses must be taken: Biology 202, 305, and 306.

COURSE DESCRIPTIONS

BIOLOGY (23)

100. INTRODUCTION TO BIOLOGY. A one-semester course dealing with biological principles and designed primarily for the non-major. Topics include organization of living matter, metabolism, reproduction, genetics, evolution and ecology. Two fifty-minute class periods and one two-hour laboratory per week. Offered in both fall and spring semesters. Credit, three hours.

101-102. GENERAL BIOLOGY. An introduction to the study of life with emphasis on basic concepts: energy relationships, cell biology, physiology, genetics, development, ecology, and evolution. Also, some attention is given to taxonomy and morphology of organisms. Two lectures and one 2-hour laboratory period each week with a 1-hour recitation period each week. Must be taken in sequence. Credit four hours each.

105. BASIC ECOLOGY. The study of the fundamental relationships between the living and non-living worlds, with special emphasis on man's place in nature. Prerequisites: Biology 100, 101-102, or consent of the instructor. Not offered for credit to majors in biology, agriculture, and natural resources. Lectures, laboratory, and field trips. Credit, three hours.

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

201. COMPARATIVE VERTEBRATE ANATOMY. A comparative study of the vertebrate classes 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 three-hour seminar laboratories. Offered in alternate spring semesters. Prerequisites: Biology 101-102. Credit, four hours.

204. HUMAN PHYSIOLOGY. Elementary principles of physiology with emphasis upon the function of the human organs and organ systems. Two lectures and one 100-minute laboratory period per week. Offered in alternate fall semesters. Prerequisites: Biology 101-102 or consent of the instructor. Credit, three hours.

205. ECOLOGY. A 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 the instructor. Credit, four hours.

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

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

304. HISTOLOGY AND MICROTECHNIQUES. A detailed study of the microscopic anatomy of vertebrate tissues and organs including laboratory practice in the preparation of histological slides. Two lectures and two laboratory period 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 period 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 their distribution, including genetic, anthropologic and social implications. Two 3-hour seminar laboratories. Offered in alternate fall semesters. Prerequisites: Biology 101-102 or consent of the instructor. Credit, three hours.

311. MAMMALOLOGY. A study of 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 Delaware-Maryland-Virginia. 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. A course in the identification, classification, distribution, evolution, and life history of fishes. Prerequisite: Biology 201 or consent of the 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. Offered in alternate fall semesters. Prerequisites: Biology 101-102 and one year of college mathematics. Credit, three hours.

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

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lecture and one 3-hour seminar laboratory period per week. Offered in fall semesters. Prerequisite: Junior standing in biology. Credit, three hours.

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

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

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

499. BIOLOGICAL SEMINAR. Selected topics on the history and development of biological concepts 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.

BLACK STUDIES PROGRAM

Director: V. Kwabena Damuah

A primary purpose of the Black Studies Program is to broaden the educational experience of the student at Delaware State College. DSC recognizes that the student gains in developing a clear sense of identity by learning about the heritage and contributions of black people and by achieving a realistic understanding of present social problems.

Further, the program seeks to develop an awareness of the need for commitment to serve the black community by those who can intelligently interpret the black experience. There is a need, too, for all students, regardless of race, to deal effectively with the causes and solutions of racial conflict and move toward the elimination of racism through positive thought and action.

Thus, the Black Studies Program is directed toward accomplishing the following specific aims:

1. to increase the relevancy of college education including the realities of life for black students;
2. to enrich the experiences of non-blacks by clarifying—through teaching, research, and community involvement—the interdependence of all people;
3. to develop an awareness of the status of black people and of their contributions to America and other countries;

4. to place the histories of black people in proper perspective vis-a-vis the histories of other peoples;
5. to reorient and develop the black student's mind to enable his ideas and actions to be positive and functional for the black community.

Departmental, interdepartmental and innovative special activities make up the Black Studies Program. Courses currently offered in the program are part of the participating academic departments.

ENGLISH

- 103. Black Rhetoric.** Credit, three hours.
104. Black Prose and Poetry. Credit, three hours.
205. Afro-American Literature I. Credit, three hours.
206. Afro-American Literature II. Credit, three hours.
316. American Literature of Afro-American Life. Credit, three hours.

HISTORY

- 107. Afro-American Experience To 1860.** Credit, three hours.
108. Recent Black Experience. Credit, three hours.
315. African Survey To 1884. Credit, three hours.
316. African Survey Since 1884. Credit, three hours.
318. Seminar in Black Studies. Topic varies. Credit, three hours.
344. Independent Study. Credit, three hours.
403. Civil War and Emergence Of Modern America. Credit, three hours.

MUSIC

- 100. Afro-American Music.** Credit, two hours.

POLITICAL SCIENCE

- 328. Black Politics in America.** Credit, three hours.

PSYCHOLOGY

- 206. Applied Psychology.** Credit, three hours.
308. Personality. Credit, three hours.
430. Independent Reading and Conference. Credit, two hours.

SOCIOLOGY

- 250. Black Power in the 60's.** Credit, three hours.
304. Racial and Ethnic Stratification. Credit, three hours.
399. Independent Study. Credit, one, two or three hours.

THE DEPARTMENT OF CHEMISTRY

Professors: Williams (Chairman), Larson, Seidel, Machen
Associate Professors: Wilkinson, *Lehman

The Department of Chemistry strives to provide a sound foundation in chemistry for students wishing to concentrate in chemistry and/or chemical engineering; to prepare students for professional careers in chemistry and for graduate study; to provide a proper sequence of courses for those students preparing to teach chemistry in the secondary school or preparing to enter dental, medical, or other health professional schools; and to meet the needs of students wishing to secure a knowledge of the fundamental principles of chemistry.

All majors in chemistry and chemical engineering are expected 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.

All students who select a major within the Department of Chemistry must complete the general education program as required of all students. (See General Education Requirements). Specific courses required for the various curriculum options are indicated below.

CURRICULUM OPTIONS IN CHEMISTRY

CHEMISTRY MAJOR (NON-TEACHING) For students who desire to prepare for professional careers in chemistry and for graduate study, the Department offers a curriculum which meets the standards adopted by the American Chemical Society for undergraduate professional education in chemistry. The requirements for a major in chemistry in this ACS approved program are forty-two (42) hours, distributed as follows: Chemistry 101-102, 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 advanced chemistry. In addition, a chemistry major must take *German 101-102 and 201-202; Mathematics 201-202; and Physics 201-202. Chemistry majors with a biochemical interest are also required to take Biology 101-102. Those students satisfactorily completing this curriculum will be certified by the department chairman as having fulfilled the minimum requirements for undergraduate professional training in Chemistry adopted by the American Chemical Society.

CHEMISTRY MAJOR (TEACHING) For students preparing to teach chemistry in the secondary school, the Department offers a curriculum in chemistry education which meets the standards adopted by the Delaware Board of Education for state certification. The requirements for a teaching major in chemistry are thirty-three (33) hours, distributed as follows: Chemistry 101-102, 301-302,

*Part-time

303-304, 306 or 308, and 417. In addition, a chemistry *teaching major* must take Biology 101-102; Education 204, 312, 405, 411, and 412; *French, German, or Spanish 101-102, and 201-202; Mathematics 221-222; Physics 201-202; and Psychology 201, 204, 302, and 316. Those students satisfactorily completing this curriculum are eligible for state certification to teach chemistry in the secondary school.

CHEMISTRY MAJOR (PRE-PROFESSIONAL) For students preparing to enter dental, medical, or other health professional schools and who desire minimal professional training in chemistry, the Department offers a pre-professional curriculum in chemistry. The requirements for a pre-professional major in chemistry are thirty-four (34) hours, distributed as follows: Chemistry 101-102, 301-302, 303-304, 306, and 308. In addition, a pre-professional major in chemistry must take Biology 101-102; *French, German, or Spanish 101-102 and 201-202; Mathematics 221-222; Physics 201-202. Students who successfully complete this curriculum will have satisfied the requirements for admission to dental, medical or other health professional schools.

MINOR

CHEMISTRY MINOR A student who desires a minor in chemistry must complete eighteen (18) hours in chemistry, distributed as follows: Chemistry 101-102, 301-302.

*A chemistry major who makes a score of 560 or higher on the CEEB Achievement Test in a foreign language prescribed in the curriculum option, either prior to entering Delaware State College or during the freshman or sophomore year of residence at the College, will be considered to have satisfied the foreign language requirement for the baccalaureate degree in chemistry.

CURRICULUM OPTIONS IN CHEMICAL ENGINEERING

CHEMICAL ENGINEERING MAJOR (See Chemical Engineering Option under Cooperative Program in Engineering for specific requirements.)

CHEMISTRY/CHEMICAL ENGINEERING MAJOR (See Chemistry/Chemical Engineering Option under Cooperative Program in Engineering for specific requirements.)

COURSE DESCRIPTIONS

CHEMISTRY (24)

101-102. GENERAL AND ELEMENTARY ANALYTICAL CHEMISTRY. A course covering the basic principles, laws and theories of chemistry including the fundamental theory of analytical chemistry and laboratory practice in the basic methods of quantitative analytical separations. Three lectures and one 150-minute laboratory period per week. Corequisites: Mathematics 101-102 or 103-104. Credit, four hours each.

103-104. INTRODUCTORY GENERAL CHEMISTRY. An introduction to modern chemical concepts, applications and theories, and the chemistry of the more important elements and compounds. (Not recommended for majors in the natural sciences or for premedical students.) Three lectures and one 150-minute laboratory period per week. Corequisites: Mathematics 101-102 or 103-104. Credit, four hours each.

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 103-104; Mathematics 101-102 or 103-104. Credit, four hours. (This course is only offered when it is needed by chemistry majors, who are transfer students, to satisfy the elementary analytical chemistry course content of Chemistry 101-102.)

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 101-102 or 103-104. Credit, four hours.

205. ELEMENTARY ORGANIC CHEMISTRY. A course covering the nomenclature, properties and reactions of the simpler classes of organic compounds. (Not recommended for majors in the biological sciences or for premedical students.) Three lectures and one 150-minute laboratory period per week. Prerequisite: Chemistry 101 or 103 (Chemistry 102 or 104 strongly advised). Credit, four hours.

206. ELEMENTARY BIOCHEMISTRY. A study of the chemical behavior and biological function of fats, carbohydrates, and proteins in life processes. (Not recommended for premedical students.) Three lectures and one 150-minute laboratory period per week. Prerequisite: Chemistry 205. 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, five hours each.

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. Three lectures and one 150-minute laboratory period per week. Prerequisites: Chemistry 301-302; Mathematics 221-222; Physics 201-202. Credit, four hours each.

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

308. INORGANIC CHEMISTRY. The fundamental concepts and chemical systems of inorganic chemistry, including atomic and molecular structure, bonding, kinetics and mechanism, ligand field theory, coordination compounds, acid-base theories, and recent advances in inorganic chemistry. Laboratory practice involving vacuum techniques, magnetic susceptibility, rate studies, preparation and determination of formation constants of coordination complexes, geometrical and optical isomerism, and redox potentials. Three lectures and one 150-minute laboratory period per week. Prerequisite: Chemistry 303. Corequisite: Chemistry 304. Credit, four hours.

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

402. ADVANCED ORGANIC CHEMISTRY. An advanced course in the fundamental principles of organic chemistry including a survey of organic reactions from a mechanistic point of view, introduction to molecular orbital theory and a treatment of linear free energy relations. 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 303. Credit, three hours.

403. BIOCHEMISTRY. A course covering the principles of biochemistry, including a study of the structural and metabolic relationships of carbohydrates, lipids, proteins, nucleic acids, enzymes and coenzymes. Three lectures and one 150-minute laboratory period per week. Prerequisites: Chemistry 301-302, and 303. Credit, four hours.

404. ADVANCED PHYSICAL CHEMISTRY. An advanced treatment of thermodynamics, the elements of quantum and statistical mechanics, chemical kinetics, and various topics in physical chemistry. Three lectures per week. Prerequisites: Chemistry 303-304. Credit, three 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.

406. SELECTED TOPICS IN CHEMISTRY. Selected topics in analytical, organic, inorganic, and physical chemistry and biochemistry dependent upon the special interests of individual students. Prerequisite: Senior standing in chemistry. Credit, three hours. (This course may, with the permission of the department chairman, be repeated for credit.)

407-408. SEMINAR IN CHEMISTRY. Oral and written reports on topics chosen from the current literature. One hour per week. Credit, one hour each.

409-410. WATER CHEMISTRY-ADVANCED TECHNIQUES. A course in instrumental methods of water analysis, with theoretical and practical application to visible, ultraviolet, and infrared methods of water analysis; atomic absorption and atomic emission spectrophotometry; fluorimetry; potentiometric and polarographic methods of analysis; gas chromatography; and computer techniques. Three lectures and one 150-minute laboratory period per week. Prerequisite: Chemistry 203. Credit, four hours each.

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, 301-302, 303-304, and 306 or 308. Credit, three hours.

COOPERATIVE ENGINEERING PROGRAM

Delaware State College is affiliated with the University of Delaware in a versatile Cooperative Engineering Program. The program is designed to prepare students for professional careers in engineering administration, chemical, civil, electrical, and mechanical engineering and to prepare students to enter graduate programs leading to advanced degrees in engineering.

FOUR-YEAR PROGRAMS

Four-year cooperative engineering programs are offered in chemical and electrical engineering and engineering administration. Participating students enroll at Delaware State College where they pursue the course of study in engineering for two years. Upon successful completion of this phase of the

program and recommendation of the College, students transfer to the University of Delaware to specialize in a major engineering discipline for two years. Students receive a bachelor's degree in Engineering from the University of Delaware at the end of the program.

Participating students must complete the general education program as required of all students at the University of Delaware. (See General Education Program in University of Delaware Bulletin.) Specific courses required for the various curriculum options are indicated below.

CHEMICAL ENGINEERING MAJOR A four-year program in chemical engineering is offered for students who desire to prepare for professional work in development, design, and operation of chemical processes and of process equipment; for graduate study in chemical engineering or in related scientific and engineering fields; and for employment in chemical, petroleum, or related industries. The requirements for a major in chemical engineering are fifty-three (53) hours, distributed as follows: *Chemical Engineering 230-231, 325, 332, 341, 342, 345, 432, 443, 445 and twenty-four hours of technical electives. In addition, a chemical engineering major must take Chemistry 101-102, 301-302 and 303-304; *Engineering 125; Mathematics 221, 222 and 223; and Physics 201-202. A total of 127 hours is required for the Bachelor of Chemical Engineering degree.

ELECTRICAL ENGINEERING MAJOR The four-year program in electrical engineering prepares students for careers in design, operation, administration, consultation, development, and research in electrical engineering. An adequate foundation for graduate study is also established. Opportunities for an electrical engineer are in the areas of generation of electrical power including nuclear devices; communication which encompasses radio, television, radar, data transmission and handling, and noise phenomena; automatic control, and computing machines.

A minimum of 126 hours is required for the Bachelor of Electrical Engineering degree. These include fifty-nine (59) hours of engineering courses, distributed as follows: *Engineering 125; *Engineering Mechanics 212; *Electrical Engineering 167, 202, 205, 307, 309, 312, 318 and 320; *Materials and Metallurgy 302; *Mechanical and Aerospace Engineering 307; eighteen hours of electrical engineering electives and fifteen hours of technical electives. In addition, an electrical engineering major must take Chemistry 101-102; Mathematics 221, 222, 223 and 301; Physics 201-202 and 301.

ENGINEERING ADMINISTRATION MAJOR A four-year program in engineering administration is offered for students who desire to prepare for positions in industrial administration. Such positions require a knowledge of the rudiments of science, mathematics, engineering, economics, business law, and business practices. A minimum of 125 hours is required for the Bachelor of

*See University of Delaware Bulletin for course descriptions.

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Engineering Administration degree. The courses a student is required to take during the two-year phase of his program at Delaware State College are as follows:

FRESHMAN YEAR (FOR ALL OPTIONS) Business 108, Chemistry 101-102, Economics 201 and 202, *Engineering 125, English 101 and 102, History 104, Mathematics 221 and 222, Physical Education 100, and Physical Education elective (100-level).

SOPHOMORE YEAR (CHEMICAL ENGINEERING ADMINISTRATION OPTION) Business 205 and 206, *Chemical Engineering 230, Economics 307, Mathematics 223, Physics 201-202, a three hour business elective, and six hours in the general education program.

SOPHOMORE YEAR (CIVIL ENGINEERING ADMINISTRATION OPTION) Business 205, 206, 401 and 405; Mathematics 223 and 301; Physics 201-202; and six hours in the general education program.

SOPHOMORE YEAR (ELECTRICAL ENGINEERING ADMINISTRATION OPTION) Business 205, 206 and 405; Mathematics 223 and 301; Physics 201-202; a three-hour business elective; and six hours in the general education program.

SOPHOMORE YEAR (MECHANICAL ENGINEERING ADMINISTRATION OPTION) Business 205, 206 and 405; Mathematics 223 and 301; Physics 201-202; six hours in the general education program; and a three-hour free elective.

FIVE-YEAR PROGRAMS

Five-year interdisciplinary programs leading to two bachelor's degrees are offered in chemistry/chemical engineering, physics/civil engineering, and physics/mechanical engineering.

Students participating in the chemistry/chemical engineering or physics/civil engineering program complete three years of study at Delaware State College and then transfer to the University of Delaware to specialize in chemical or civil engineering for two years. Participating students in the physics/mechanical engineering program spend two years at Delaware State College followed by three years of study at the University of Delaware. Upon successful completion of the five-year course of study, the students receive a Bachelor of Science degree from Delaware State College and a bachelor's degree in Engineering from the University of Delaware.

Participating students must complete the general education program as required of all students at both cooperating institutions. (See General Education Program in Delaware State College and University of Delaware Bulletins). Specific courses required for the various curriculum options are indicated below.

*See University of Delaware Bulletin for course descriptions.

CHEMISTRY/CHEMICAL ENGINEERING MAJOR The five-year dual degree program in chemistry/chemical engineering is designed to prepare students to apply chemical knowledge to practical purposes. The combination of a strong background in chemistry with chemical engineering knowledge equips students to make technical achievements of a broader range. The requirements for a major in chemistry/chemical engineering are thirty-four (34) hours in chemistry and fifty-four (54) hours in chemical engineering and technical electives, distributed as follows: Chemistry 101-102, 301-302, 303-304, 306 and 308; *Chemical Engineering 230-231, 325, 332, 341, 342, 345, 432, 443 and 445; and twenty-five hours of technical electives. In addition, a chemistry/chemical engineering major must take *Engineering 125, **French, German or Spanish 101-102 and 201-202; Mathematics 221, 222 and 223; and Physics 201-202. A total of 152 hours is required for the Bachelor of Science degree in Chemistry and the Bachelor of Chemical Engineering degree.

PHYSICS/CIVIL ENGINEERING MAJOR The five-year dual degree program in physics/civil engineering is designed to provide the basic scientific and professional education necessary to enter any branch of civil engineering. This interdisciplinary training has proved advantageous to the modern engineer in this era of ever growing technology and research. Opportunities for physics/civil engineering graduates are in the fields of irrigation, hydraulics, structures, highway construction, soil mechanics and foundations, water resources, environmental and ocean engineering. They also exist in administration, research, and general industry.

A total of 168 hours is required for a major in physics/civil engineering. These include forty (40) hours in physics and sixty-three (63) hours in engineering and related courses, distributed as follows: Physics 201-202, 203, 301-302, 303-304, 305, 306, 401-402, and 404; *Engineering 125, 132 and 133; *Civil Engineering 223, 251, 301, 302, 331, 382, 403, 420 and 421; *Mechanical Engineering 301, 302, 305 and 306; and twenty-one hours of technical electives. In addition, a physics/civil engineering major must take Chemistry 101-102, Economics 201, and Mathematics 221, 222, 223, 301 and 401-402.

PHYSICS/MECHANICAL ENGINEERING MAJOR The five-year dual degree program in physics/mechanical engineering provides training in two disciplines, namely, engineering and physics. The broad education has proved beneficial to the engineering profession. This interdisciplinary program extends the capabilities to the engineer not only in his technical achievements but also in research. Opportunities for mechanical engineers are in development, design, construction, operation of machinery, and in the generation,

*See University of Delaware Bulletin for course descriptions.

**A Chemistry/Chemical Engineering major who makes a score of 560 or higher on the CEEB Achievement test in foreign language prescribed in the curriculum option, either prior to entering Delaware State College or during the Freshman or Sophomore year of residence at the College will be considered to have satisfied the foreign language requirement for the baccalaureate degree in chemistry.

transmission and utilization of power. Diesel engines, aircraft, missiles, rockets and space vehicles, underseas systems, automobiles, locomotives, air conditioning, refrigeration, new materials of construction — all of these are within the scope of mechanical engineering.

A total of 150 hours is required for a major in physics/mechanical engineering. These include twenty-three (23) hours in physics and sixty-six (66) hours in engineering and related courses, distributed as follows: Physics 201-202, 203, 301-302 and six hours of physics electives; *Engineering 125 and 132; *Engineering Mechanics 212, 301, 302, 305 and 306; *Mechanical and Aerospace Engineering 215, 216, 307, 361, 391, 441, 442, 445 and 446; Electrical Engineering 314; and twenty-one hours of technical electives. In addition, a physics/mechanical engineering major must take Chemistry 101-102 and Mathematics 221, 222, 223 and 301.

*See University of Delaware Bulletin for course descriptions.

THE DEPARTMENT OF ECONOMICS AND BUSINESS ADMINISTRATION

Professor: Grandfield

Associate Professors: Bieker, Li, Price (Chairman), Talbert

Assistant Professor: Saulsbury

Instructors: Waller, Sheth, Reaves, Deeney

Visiting Lecturer: *Cooper

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 the following eight curricula for a major: Curriculum in Economics, Curriculum in Accounting, General Curriculum in Business Administration, Certificate I Curriculum in Business Education, Certificate II Curriculum in Business Education, Certificate III Curriculum in Business Education, Curriculum in Secretarial Science, or Curriculum in Distributive Education.

The department normally offers odd numbered courses the first semester and even numbered courses the second semester.

CURRICULUM OPTIONS IN THE DEPARTMENT OF ECONOMICS AND BUSINESS ADMINISTRATION

ECONOMICS MAJOR Economic majors must complete the general education program as required of all students (See General Education Requirements). In addition, the following courses must be taken in the major area: Economics 201-202, 301, 303, 307-308, 312, 314, 411, 414, 418, 421; Business 108, 205; plus twelve hours of a foreign language.

*Part of the 1973-74 School Year

A student may elect Biology 100 or 101-102, or Chemistry 103-104; Physical Science 201, or courses in Agriculture and Natural Resources which have been approved for general education. Physics may be elected, provided the student has the prerequisites in mathematics. Approved Black Studies courses for general education may be substituted wherever possible.

ACCOUNTING MAJOR Accounting majors must complete the general education program as required of all students (See General Education Requirements). In addition, the following courses must be taken in the major area: Business 108, 205-206, 301, 303, 305-306, 307-308, 310, 401-402, 405, 411, 416, 423, 424, 427, 430; Economics 201-202, 307, 414. A foreign language may be elected. Such election must meet the foreign language requirements of the College.

A student may elect Biology 100 or 101-102, or Chemistry 103-104; Physical Science 201, or courses in agriculture and natural resources which have been approved for general education. Physics may be elected, provided the student has the prerequisites in mathematics. Approved Black Studies courses for general education may be substituted wherever possible. Students majoring in this curriculum desiring to attend graduate school should elect six (6) hours of calculus.

GENERAL BUSINESS ADMINISTRATION MAJOR General Business Administration majors must complete the general education program as required of all students (See General Education Requirements). In addition, the following courses must be taken in the major area: Business 108, 205-206, 301, 303, 305-306, 310, 401-402, 405, 416; Economics 201-202, 307, 414. A foreign language may be elected. Such an election must meet the foreign language requirements of the College.

A student may elect Biology 100 or 101-102, or Chemistry 103-104; Physical Science 201, or courses in agriculture and natural resources which have been approved for general education. Physics may be elected, provided the student has the prerequisites in mathematics. Approved Black Studies courses for general education may be substituted wherever possible. Students majoring in this curriculum desiring to attend graduate school should elect 6 hours of calculus.

BUSINESS EDUCATION MAJOR—CERTIFICATE I (Comprehensive for Business Education) Business Education majors must complete the general education program as required of all students (See General Education Requirements). In addition, the following courses must be taken in the major area: Secretarial Science 101-102, 103-104, 201-202, 203-204, 302, 402; Business 108, 205-206, 211, 301, 305-306, 327, 328, 351-352, 401; Economics 201; Education 204, 411, 412; Psychology 201, 302, 316.

A student may elect Biology 100 or 101-102, Physical Science 201, or courses in agriculture and natural resources which have been approved for general education. Physics may be elected, provided the student has the prerequisites in mathematics. Chemistry may be elected, provided the student takes the proper courses in mathematics. Approved Black Studies courses for general education may be substituted wherever possible.

BUSINESS EDUCATION MAJOR—CERTIFICATE II (Bookkeeping and Related Business Subjects) Business Education majors must complete the general education program as required of all students (See General Education Requirements). In addition, the following courses must be taken in the major area: Business 108, 205-206, 211, 301, 305-306, 327, 328, 351-352, 401; Economics 201; Psychology 201, 302, 316, Education 204, 411, 412; Secretarial Science 302; Basic Business electives—9 hours (3 hours in Accounting).

A student may elect Biology 100 or 101-102, Physical Science 201, or courses in agriculture and natural resources which have been approved for general education. Physics may be elected, provided the student has the prerequisites in mathematics. Chemistry may be elected, provided the student takes the proper courses in mathematics. Approved Black Studies courses for general education may be substituted wherever possible.

BUSINESS EDUCATION MAJOR—CERTIFICATE III (Secretarial and Related Business Subjects) Business Education majors must complete the general education program as required of all students. (See General Education Requirements). In addition, the following courses must be taken in the major area: Secretarial Science 101-102, 103-104, 201-202, 203-204, 302, 402; Business 108, 211, 301, 327, 328, 351-352, 401; Economics 201; Psychology 201, 302, 316; Education 204, 411, 412; Basic Business Electives—9 hours.

A student may elect Biology 100 or 101-102, Physical Science 201, or courses in agriculture and natural resources which have been approved for General Education. Physics may be elected, provided the student has the prerequisites in mathematics. Chemistry may be elected, provided the student takes the proper courses in mathematics. Approved Black Studies courses for general education may be substituted wherever possible.

SECRETARIAL SCIENCE MAJOR Secretarial Science majors must complete the general education program as required of all students. (See General Education Requirements). In addition, the following courses must be taken in the major area: Secretarial Science 101-102, 103-104, 201-202, 203-204, 302, 402; Business 108, 205-206, 301, 305, 351-352, 401-402; Economics 201, 307.

A student may elect Biology 100 or 101-102, or Chemistry 103-104; Physical Science 201, or courses in agriculture and natural resources which have been approved for general education. Physics may be elected, provided the student has the prerequisites in mathematics. Approved Black Studies for general education may be substituted wherever possible.

DISTRIBUTIVE EDUCATION MAJOR Distributive Education majors must complete the general education program as required of all students. (See General Education Requirements). In addition, the following courses must be taken in the major area: Economics 201; Business 108, 205, 303, 310, 320, 401, 405, 407; Psychology 201, 204, 316; Education 204, 312, 405, 411, 412, 415; Distributive Edu-

cation 451, 456, 458. Majors who do not have sufficient hours of work experience to meet state certification requirements must take Distributive Education 453.

A student may elect Biology 100 or 101-102, or Chemistry 103-104, Physical Science 201, or courses in agriculture and natural resources which have been approved for general education. Physics may be elected, provided the student has the prerequisites in mathematics. Approved Black Studies courses for general education may be substituted wherever possible.

CURRICULUM OPTIONS IN ENGINEERING ADMINISTRATION

Engineering Administration Major (see Engineering Administration Options under Cooperative Program in Engineering for specific requirements).

COURSE DESCRIPTIONS

ECONOMICS (40)

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

303. INTRODUCTION TO MATHEMATICAL ECONOMICS. A course dealing with logical structure of mathematics as applied to economics. Use of mathematics in the fundamental propositions of microeconomics and macroeconomics is emphasized. Prerequisites: Mathematics 101, 102, or 104, and Economics 201 or permission of the instructor. 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 applications of statistical technique to economic and business problems. Prerequisite: Economics 307. Credit, three hours.

312. HISTORY OF ECONOMIC THOUGHT. Social economic theories from the Greek philosophers to 18th century physiocrats examined in relation to dominant and receding institutions. 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; and analysis of the problem of economic growth, economic security and stability, agricultural prices, and conservation of natural resources. Prerequisite: Economics 201. Credit, three hours.

321. URBAN ECONOMICS. Concepts of the city and of the urban areas as an economic entity. The role of the urban area in local and national economic growth. Economic problems of the region and the city; alternative solutions evaluated, with particular attention to Wilmington and other urban areas. Credit, three hours.

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

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

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

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

BUSINESS (42)

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. 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 costs; 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 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.

320. RETAILING. An introduction to the field of retailing. Analysis of the fundamentals of organization, operation, and management of retail stores. 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.

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

352. DATA PROCESSING II. A course with emphasis on advanced applications of basic concepts learned in Data Processing I, including an introduction to computing equipment. Prerequisite: Business 351 or permission of the instructor. 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 of the instructor. Credit, three hours.

405. MARKETING. A study of the economic functions of marketing and the factors, processes, and institutions which condition these functions. Prerequisites: Business 108 and Economics 201 or permission of 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 of 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 con-

trol and their relation to the auditing procedure. Prerequisites: Business 205, 206, 305, 306, or permission of 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, 206, 305, 306, and 423 or permission of 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, 206, 305 and 306 or permission of 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 of the instructor. Credit, three hours.

SECRETARIAL SCIENCE (45)

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 or exemption by standard examination. 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, 102. Prerequisites for Secretarial Science 202 are Secretarial Science 101, 102, 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 103-104. Prerequisites for Secretarial Science 204 are Secretarial Science 103-104, 203. Credit, three hours each.

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.

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 of the instructor. Credit, three hours.

DISTRIBUTIVE EDUCATION (44)

451. METHODS OF TEACHING DISTRIBUTIVE EDUCATION. This course is designed for those preparing to become teacher-coordinators. Methods of teaching, classroom practices, and the application of effective teaching techniques for practical work and related instruction are studied by the student. Credit, 3 hours.

453. DIRECTED WORK EXPERIENCE SEMINAR. This course is designed to assist students who have insufficient work experience backgrounds in acquiring the necessary experience to meet certification requirements. Students will meet to explore job problems, analyze skills, and study problems and challenges of employment. At the same time, it is recommended that the student be employed in a distributive occupation. Credit, 3 hours.

456. ORGANIZATION AND ADMINISTRATION OF DISTRIBUTIVE EDUCATION. This course is designed to study the philosophy and organization of distributive education program. It will cover objectives, structures, and operations at local, state, and national levels. Also studied will be DECA and its relationship to distributive education. Credit, 3 hours.

458. COORDINATION TECHNIQUES IN DISTRIBUTIVE EDUCATION. Coordination techniques, the functions and activities of the teacher-coordinator, training plans and agreements, and the use of advisory committees will be emphasized. Selection of students, program promotion and development, and evaluation will also be studied. Credit, 3 hours.

THE DEPARTMENT OF EDUCATION

Professors: Henderson, Ricks, Thompson

Associate Professor: McLaughlin (Chairman)

Assistant Professors: Walker*, Hargrove, Watras, Hazelton, Inter

Instructors: Sturge, King

Departmental Assistant: Caldwell

The Department of Education trains 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 experiences designed to help students to develop personally and professionally, to gain both an appreciation and understanding of children, and to develop a sound philosophy of education.

*Sabbatical Leave

The major fields of study in this department are Early Childhood Education, Elementary Education, Earth Science Education, and Occupational Teacher Education. Courses in education are offered also for those who are making preparation to teach in the secondary schools.

CURRICULUM OPTIONS IN EDUCATION

EARLY CHILDHOOD EDUCATION For a major in this area, the following courses must be taken as part of the general education requirements: Biology 100; History 205; Mathematics 105-106. Education courses required are as follows: Education 204, 301, 303, 304, 305, 308, 310, 312, 316, 400N, 408, 411. Other required courses are as follows: Art 102A, 201; Geography 101; Health Education 308; Home Economics 301, 314; Music 125, 201; Physical Education 303; Psychology 302, 316; Sociology 201; History 206; Nine (9) hours of electives.

ELEMENTARY EDUCATION For a major in this area, the following courses must be taken as part of the general education requirements: Biology 100; History 205; Mathematics 105-106. The following education courses are required: Education 204, 301, 302, 303, 304, 305, 308, 309, 312, 400, 408, 411, 413. Additional required courses are as follows: Psychology 302, 316; Art 102A, 201; Geography 101; Health Education 308; Music 201; Physical Education 303; Physical Science 201; History 206; Fifteen (15) hours of electives.

EARTH SCIENCE EDUCATION MAJORS (Teaching) All students who select a major within the Department of Science Education must complete the general education program as required of all students (See General Education Requirements). In addition, for a major in Science Education, the following courses are required: Mathematics 210; two semester hours of Physical Education on the 100 level; Psychology 201, 316; Sociology 201; Science 209, 210, 304, 308, 414, nine hours of electives in Science; History 104; Art 201; Geology 101; Astronomy 201; Education 101, 204, 400, 408, 411; Natural Resources 105, 201, 313; Six hours of free electives.

OCCUPATIONAL TEACHER EDUCATION—The Occupational Teacher Education Program is a "consortium," involving Delaware State College, University of Delaware and Delaware Technical and Community College. Students obtain general and professional education at Delaware State College or University of Delaware, and technical specialization at a Delaware Technical and Community College campus. The purpose of the program is to prepare teachers for middle and high school Industrial Arts and Trade and Industrial Education positions and to provide an approved program for certification. In addition to the General Education requirement the following courses must be taken in the major area: Education 350, 352, 354 or 454, 380, 412 or 452, 415 or 450, 456, 457; Psychology 201, 204, 316; Major technical area 46 quarter credits (30 semester credits), Minor

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technical area 24 quarter credits (16 semester credits) in the following specializations: Construction, Electricity/Electronics, Energy Conversion and Power Mechanics, Graphic Communications, Materials and Manufacturing Processes.

PILOT PROGRAM IN TEACHER TRAINING

Through the Department of Education, the College conducts a teacher-training program in cooperation with the Wilmington Public Schools. The program is intended to modify pre-service teacher education. It offers an improved teacher-training program, allow more agencies to be involved, and develop a program that may serve as a model for recommending changes in the present teacher-education program at Delaware State College.

A completely new idea in the training of teachers, this program provides opportunities for persons to participate who may not have a high school diploma or who normally would not go into the teaching profession. Persons who participate receive training in an individually designed program that includes work with special faculties, contact with actual classroom settings, and experiences with other agencies involved in teacher training. Those completing the program will receive the Bachelor of Science degree in Elementary Education and full certification. The pilot program was initiated during the summer of 1970. Participants in this four-year program have already been selected.

This program is operated as a pilot program with the Wilmington, Delaware Public Schools only.

TEACHER EDUCATION REGULATIONS

PROFESSIONAL EDUCATION Students proposing to teach in the elementary or secondary schools must complete the following professional education and psychology courses if required for graduation in the students' major field, with a grade of "C" or better before student teaching: Psychology 302, 316; Education 405, 411.

All method courses in each academic discipline must be completed with a grade of "C" or better before student teaching.

Education 400 and 412 (Student Teaching) must be completed with a grade of "C" or better before certification can be granted.

STUDENT TEACHING Candidates for the Bachelors degree in elementary or secondary education must complete successfully the requirements in student teaching with a grade of "C" or better. All candidates are assigned to student teaching on a full-time basis for eight weeks. An additional two weeks to be spent in preparation and evaluation are required of all candidates. In most cases, students will live on campus or at home during their student teaching period. However, in some instances it may be necessary for students to maintain living quarters in the community in which they are assigned to student teach. All Teacher Education majors are required to take History 104.

Those students who wish to do their student teaching during the first semester should apply on or before April 15. Students who plan to do their student teaching during the second semester should submit their applications on or before October 15.

COURSE DESCRIPTIONS

EDUCATION (12)

101. FRESHMAN ORIENTATION. This course is 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 entering freshmen with less than fifteen hours). 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.

209. CONCEPTS AND METHODS OF LIFE SCIENCE. A practicum designed to include methods and materials of junior high school life science programs—IMB, BSCS, etc. Credit 3 hours.

210. CONCEPTS AND METHODS OF PHYSICAL SCIENCE. A practicum designed to include methods and materials of junior high school physical science programs—IPS, IME, ICIS, etc. Credit 3 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. This course includes 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. Prerequisite: Education 204. Credit, three hours.

304. METHODS AND MATERIALS OF ELEMENTARY SCIENCE. This course will include a survey and comparison of AAAS, ESS, EIS, SCIS, together with the philosophical basis, teaching strategy, materials and evaluative techniques for

each one. Since the placement of the course succeeds the student teaching experience and the "concept" courses, only one week will be devoted to classroom observation. Attention will also be given to the development of a science program which is not a packaged one, but made from the materials at hand using any standard textbook. Credit 3 hours.

305. TEACHING OF ARITHMETIC. This course emphasizes problems involved in teaching 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 this 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. Prerequisite: Education 204. Credit, three hours.

307. CONCEPTS AND METHODS OF EARTH SCIENCE. A practicum designed to include methods and materials of junior high school earth science programs—ESCP, TSM, etc. Credit 3 hours.

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

310. MODERN PRACTICES IN EARLY CHILDHOOD EDUCATION. Areas covered in this course include practices, instructional and resource material, methods, and techniques in early childhood education. Opportunities for observation of pre-school children are provided. Credit, three hours.

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

316. NURSERY AND KINDERGARTEN EDUCATION. This course deals with the philosophy of curriculum development in pre-school education, program planning, the role of the teacher, parent-teacher relations, and the administration of nursery school and kindergartens. Credit, three hours.

350. SCHOOL SHOP SAFETY AND HYGIENE. The recognition, evaluation, and control of contaminants, practical methods of hazard control, personal protection devices, plant sanitation, and physical factors related to accident prevention. Credit, three hours.

352. OCCUPATIONAL PRACTICUM. Supervised on-the-job work experience in the field of specialization, to be started during the second year of the four-year Occupational Teacher Education Program. Credit, four hours.

354. ORGANIZATION & MANAGEMENT OF SHOPS AND LABS. The principles of planning, nature of instructional facilities, organization for efficient instruction, and management of vocational and industrial arts shops, labs, and classroom facilities. Credit, three hours.

380. OCCUPATIONAL EDUCATION MATERIALS AND APPROACHES. Considers methods of instruction, treatment of objectives, organization materials, classroom practices, application of effective teaching techniques for practical work and related instruction and evaluation. 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. Student trainees are assigned to elementary schools for eight weeks under the supervision of a coordinating teacher. The trainees observe the experienced teachers in classroom activities, teach elementary class and become involved in the overall activities in an elementary school program. Prerequisites: All other courses in education and psychology except Education 408 in the Elementary Education curriculum. 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. Prerequisites: All other courses in education (except 408) and psychology. Credit, nine hours.

404. EDUCATIONAL SOCIOLOGY. This course is 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. METHODS OF TEACHING IN THE MIDDLE SCHOOL. This course is designed for those preparing to teach in the middle 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, observation, and special reports. Credit, three hours.

408. HISTORY AND PHILOSOPHY OF AMERICAN EDUCATION. This course is 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.

411. SEMINAR IN TEACHER TRAINING. The seminar is designed for senior teacher trainees. The role and problems of student teaching are analyzed and discussed. 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.

413. TECHNIQUES AND PRINCIPLES OF TEACHING IN THE ELEMENTARY SCHOOLS. This course gives special attention to the 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; and principles of growth influencing the organization of the elementary school. Credit, three hours.

414. SEMINAR IN SCIENCE EDUCATION. A "situation" course which will present the problems of administration, curriculum development, program planning, literature survey, text selections, grading, laboratory, management, value development which will be faced by the student as a classroom teacher. Each student will be responsible for the presentation of the materials to his peers. The seminar will meet one day per week. Credit 1 hour.

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

450. PRINCIPLES OF OCCUPATIONAL EDUCATION. This course emphasizes the background, history and philosophy of occupational education, including concepts involving social and economic attitudes, the legal, financial, and educational supports and pressures. Credit, three hours.

452. CLASSROOM PRACTICUM. A special supervised field experience open only to vocational or industrial arts teachers with experience in teaching as a substitute for student teaching or internship. Recommendation by the Director of Occupational Teacher Education is required. Credit, six hours.

454. ANALYSIS TECHNIQUES AND COURSE CONSTRUCTION. This course focuses on the techniques and procedures of job analysis and their application as a basis for trade and technical course construction as well as counseling and placement in occupational education and training programs. The course will provide instruction in practical approaches to gathering and analyzing job information for use in identifying and organizing instructional content. Credit, three hours.

456. YOUTH ORGANIZATIONS AND ACTIVITIES. An investigation into various effective means of involving students in organizations and activities to foster interest and leadership development in career education. A critical evaluation of local, state, and national efforts organizations programs and effects. Credit, two hours.

461. TEACHING OF LANGUAGE ARTS IN THE ELEMENTARY SCHOOL. This course covers the principles, techniques, materials, and problems involved in teaching the communication skills (spelling, writing, speaking, listening, reading) to the elementary school child. Credit, three hours.

462. PRACTICUM FOR TEACHING OF READING IN ELEMENTARY SCHOOL. Opportunity for pre-service teachers to actively participate in the teaching of reading and to study reading problems under the professional guidance of teachers and other personnel in elementary schools. Credit, three hours.

CHILD DEVELOPMENT LABORATORY

Director: Gloria Gardner

Assistant Director: Lola Timmons

The Department of Education operates a nursery and kindergarten for three, four, and five-year old children. The laboratory school is fully staffed by personnel qualified to give the children a fulfilling learning experience. The school is used as a laboratory in conjunction with the major in Early Childhood Education, home economics, and other related areas. The well-equipped facility has an observation room for use by students of the College and parents of the children.

THE DEPARTMENT OF ENGLISH

Professor: del Tufo

Assistant Professors: Goodman, Golts, King (Chairman), *Shields, **Harris,
Steward, B., Steward, D.

Instructors: ***Christophe, Lawson, Ressler, Stringer, Tokley,
Willis, **Mroz, **Musser

Departmental Assistant: Zaback

The role and function of the Department of English at Delaware State College is threefold.

1. The department provides instruction in grammar, composition, speech, and humanities for the general education program;
2. The department offers instruction in language and literature, speech, methods of teaching English, linguistics and language arts for the teacher education program;
3. The department provides instruction in language and literature, speech, drama, grammar and composition, and linguistics for the liberal arts program.

CURRICULUM OPTIONS IN ENGLISH

ENGLISH MAJOR (NON-TEACHING) All students who select this major must complete the general education program as required of all students (See General Education Requirements). In addition, the following thirty-six (36) hours are required in the major area: English 301-302, 305, 306-307, 311, 402, 403; Twelve (12) hours of English Electives; Twelve (12) hours of a Foreign Language.

ENGLISH MAJOR (TEACHING) All students who select a teaching major in English must complete the general education program as required of all students (see General Education Requirements). In addition, the following thirty-six (36) hours must be completed for the major: English 204, 301-302, 305, 306-307, 311, 402, 403-404; Six (6) hours of English Electives; Twelve (12) hours of a Foreign Language, Education 204, 302, 408, 411, 412; Psychology 201, 204, 302, 316.

Note: Suggested Electives for both options are as follows: English 304, 308, 309, 316; Art 308, 309; History 204.

*Part of year

**Part-time

***Sick Leave

COURSE DESCRIPTIONS

ENGLISH (01)

100. WRITING SKILLS. This course is a required course for all students who make unsatisfactory scores on the English placement tests. Emphasis is placed on the development of basic writing skills with a review of grammar and the mechanics of writing. Students are eligible to enroll in English 101 upon completion of the course with a Pass grade accompanied by the teacher's recommendation. No credit, three hours.

101. ENGLISH COMPOSITION. This course is designed to develop skill and competence in writing prose compositions, reading, and listening. Problems in logical thought, organization of ideas, and comprehension in reading will receive special attention. (Techniques of the research paper are explored in this course.) Prerequisite: A passing score on the English placement tests or successful completion of English 100. Credit, three hours.

102. BASIC STUDY IN LITERATURE. This course is designed to help students develop an appreciation and understanding of literature. Attention is given to forms, styles, and ideas in selected works of poetry, drama, and short fiction. Students are also encouraged to write critically about literature. The completion of a term paper is a requirement. Prerequisite: English 101. Credit, three hours.

103. BLACK RHETORIC. This course follows the general format of English 101. It is divided into two parts: the rhetoric and the reader. The first part, the rhetoric, stresses an introduction to writing. The second part of the course attempts to stimulate interests and response in students through the reading of essays by black writers ranging from the simple to the formal essay. Prerequisite: A passing score on the English Placement tests or successful completion of English 100. Credit, three hours.

104. BLACK PROSE AND POETRY. The imaginative literature in this course represents the three main genres: stories, plays, poems by black writers, and includes a wide range of styles, techniques, and themes. To encourage concentrated study, critical essays by noted black critics are studied in depth. Prerequisite: English 101, or 103. Credit, three 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. Prerequisite: E 101-102 or 103-104. Credit, two hours.

201-202. WORLD LITERATURE. A broad cultural background is sought through a study of the literature and a consideration of the ideas expressed by the great men of letters from ancient Greece through the Renaissance (during

the first semester) and from the Renaissance to the twentieth century (second semester). Required of all sophomores. Prerequisite: E 101-102 or 103-104. Credit, three hours each.

204. PRINCIPLES OF LINGUISTICS. This is an introduction to the scientific study of language with emphasis on the application of modern linguistic science to the teaching of grammar and writing. Credit, three hours.

205. AFRO-AMERICAN LITERATURE I. The aim of this course is to trace the beginning of Afro-American literature from the early plantations era to the modern phase which began with the Great Depression of the 1930's. Prerequisite: English 101-102 or 103-104. Credit, three hours.

206. AFRO-AMERICAN LITERATURE II. 1930's-present. This course traces Afro-American writings from the early 1930's, which saw a new concern for social equality between blacks and whites, up to the present day. Prerequisite: English 101-102 or 103-104. Credit, three hours.

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

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 a definition 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, three hours each.

308. BRITISH AND AMERICAN DRAMA. This course is 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. This course is 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 in this course is placed upon extensive practice in effective writing of prose composition. Prerequisites: English 101-102 or 103-104. Credit, three hours.

313. PLAY PRODUCTION. Areas covered in this course include a general introduction to directing, staging, lighting, costuming, makeup and other aspects of educational and recreational drama. Credit, three hours.

315. JOURNALISM. This course gives basic instruction and practice in news gathering and in writing for publication. Prerequisites: English 101-102 or 103-104. Credit, two hours.

316. AMERICAN LITERATURE OF AFRO-AMERICAN LIFE. An examination of the black American's role in American literature (a) as a creator of the white writer's imagination, (b) as a creator of literature, and (c) as a critical observer of the literary scene. Prerequisites: English 101-102 or 103-104. Credit, three hours.

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

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

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

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. This course covers the content to be taught, the insights needed by the teacher, and various methods recommended in teaching the subject. Credit, three hours.

THE DEPARTMENT OF FOREIGN LANGUAGES

Assistant Professors: Abosch, Georges (Acting Chairman)
Instructors: Canal, deGrasse, Toscano

The objectives of the Foreign Language Department are to provide students with a general knowledge of foreign cultures and literatures; to attempt to develop in the student the ability to speak, read and write correctly the chosen language; and to afford an opportunity for students to obtain a foundation for professional study.

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

CURRICULUM IN FOREIGN LANGUAGES

FRENCH, GERMAN, OR SPANISH MAJOR All students who select a major within the foreign language department must complete the general education program as required of all students (See General Education Requirements). In addition, for a major in French, German, or Spanish, thirty (30) hours are required: 101-102, 201-202, 301-302, 303, 304, 305, 306. Electives are French 401, 402; German 300, 307; Spanish 307, 308.

Language majors taking 101-102 may count the six hours toward the thirty-hour requirement. Majors passing the proficiency examination and waiving 101-102 must take six additional hours in their foreign language.

Language majors seeking state certification to teach in secondary schools must take the following courses: Psychology 201, 302, 316; Education 204, 405, 411, 412; Foreign Language 409.

FRENCH, GERMAN, OR SPANISH MINOR For a minor in French, German or Spanish, eighteen hours are required with the following course numbers and sequence: 101-102, 201-202, and 303-304.

COURSE DESCRIPTIONS

FRENCH (08)

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. Laboratory attendance is required at least three hours per week. Credit, three hours each.

201-202. INTERMEDIATE FRENCH. This course is designed to continue the development of the audio-lingual skills. Grammar will consist of the more advanced levels of syntax. Laboratory attendance is required at least three hours

201-202. INTERMEDIATE FRENCH. This course is designed to continue the development of the audio-lingual skills. Grammar will consist of the more advanced levels of syntax and initiation to French Culture. Laboratory attendance is required at least three hours per week. Prerequisite: French 101-102 or satisfactory completion of a standard examination covering Elementary French. Credit, three hours each.

301. SURVEY OF FRENCH LITERATURE. Renaissance through the Eighteenth Century. Prerequisite: French 201-202. Credit, three hours.

302. SURVEY OF FRENCH LITERATURE. From 1800 to 1930. Prerequisite: French 201-202. Credit, three hours.

303. ADVANCED FRENCH GRAMMAR AND COMPOSITION. Detailed study of French syntax, with special stress on vocabulary building, idioms and literary styles. Class is conducted partly in French. Laboratory attendance is required at least three hours per week. Prerequisite: French 201-202. Credit, three hours.

304. FRENCH DICTION AND CONVERSATION. Drill on French pronunciation and intonation. Aural understanding and oral composition are stressed. Emphasis is on fluency and included are prepared and impromptu group discussions. Class conducted in French. Laboratory attendance is required at least three hours per week. Prerequisite: Twelve (12) semester hours in French. Credit, three hours.

305. FRENCH CIVILIZATION. Systematic study of the origin and development of the French nation and its cultural role in human history from the points of view of geography, industry, social and political institutions. Class conducted in French. Prerequisite: Twelve (12) semester hours of French. Credit, three hours.

*Part-time and part of the year

306. SEVENTEENTH CENTURY FRENCH LITERATURE. Great writers of France's Golden Age. Course conducted in French. Prerequisite: French 301-302. Credit, three hours.

401. THE FRENCH NOVEL. Representative works of authors, such as Diderot, Balzac, Stendhal, Flaubert, Zola, Gide, and Proust. Course conducted in French. Prerequisite: French 301-302. Credit, three hours.

402. FRENCH DRAMA. Analysis of plays by Corneille, Moliere, Racine, Marivaux, Hugo, and Dumas fils. Prerequisite: French 302 or consent of the instructor. Course conducted in French. Credit, three hours.

409. METHODS AND MATERIALS OF TEACHING FRENCH. Analysis of the methods of teaching modern foreign languages including recent developments in this field, and notions of phonetics and applied linguistics. Examination of texts and classroom procedures discussed. Language laboratory attendance is required at least three hours per week. Prerequisite: Twelve (12) semester hours of French. Credit, three hours.

GERMAN (09)

101-102. ELEMENTARY GERMAN. Study of the fundamentals of German. Drill in pronunciation, vocabulary building, reading and speaking simple German. Laboratory attendance is required at least three hours per week. Credit, three hours each.

201-202. INTERMEDIATE GERMAN. A review of grammar and an introduction to German literature. Continued practice in speaking and writing. Laboratory attendance is required at least three hours per week. Prerequisite: German 101-102 or the satisfactory completion of a standard examination covering Elementary German. Credit, three hours each.

300. SCIENTIFIC GERMAN. Oral and written exercises and the study of technical and scientific selections with attention to their special vocabularies. Laboratory attendance is required at least three hours per week. Prerequisite: Twelve (12) semester hours of German. Credit, three hours.

302. SURVEY OF GERMAN LITERATURE. Continuation of German 301. Class conducted partly in German. Prerequisite: Twelve (12) semester hours of German. Credit, three hours.

303. ADVANCED GERMAN GRAMMAR AND CONVERSATION. A detailed study of German syntax. Free composition and idiomatics. Class conducted partly in German. Laboratory attendance is required at least three hours per week. Prerequisite: Twelve (12) semester hours of German. Credit, three hours.

304. GERMAN CONVERSATION. Practice in speaking German. Emphasis on aural understanding and oral composition. Class conducted in German. Laboratory attendance is required at least three hours per week. Prerequisite: Twelve (12) semester hours of German. Credit, three hours.

305-306. HISTORY OF GERMAN CIVILIZATION. Designed to trace the development of the German nation, presented from the points of view of geography, industry, science, literature and the arts, and to show the impact of its social and political institutions on world history. Class conducted partly in German. Prerequisite: Twelve (12) semester hours of German. Credit, three hours each.

307. MAJOR DRAMA OF GERMAN LITERATURE. The study of dramatic content and form by means of selections from such authors as: Schiller, Lessing, Goethe, Grillparzer, Hebbel, Hauptmann, et al. Class conducted in German. Prerequisite: Twelve (12) semester hours of German. Credit, three hours.

409. METHODS AND MATERIALS OF TEACHING GERMAN. Analysis of the methods of teaching modern foreign languages including recent developments in this field, and notions of phonetics and applied linguistics. Examination of texts and classroom procedures discussed. Language laboratory attendance is required at least three hours per week. Prerequisite: Twelve (12) semester hours of German. Credit, three hours.

SPANISH (10)

101-102. ELEMENTARY SPANISH. A course for beginners designed to develop aural ability, oral facility and reading comprehension. Laboratory attendance is required at least three hours per week. Credit, three hours each.

201-202. INTERMEDIATE SPANISH. Review of grammar and pronunciation. Reading of several texts of average difficulty. Laboratory attendance is required at least three hours per week. Prerequisite: Spanish 101-102 or satisfactory completion of standard examination covering Elementary Spanish. Credit, three hours each.

301. SURVEY OF SPANISH LITERATURE TO 1700. Prerequisite: Twelve (12) semester hours of Spanish. Credit, three hours.

302. SURVEY OF SPANISH LITERATURE FROM 1700. Prerequisite: Twelve (12) semester hours of Spanish. Credit, three hours.

303. ADVANCED SPANISH GRAMMAR AND COMPOSITION. Detailed study of Spanish syntax. Designed to develop greater proficiency in writing Spanish. Practice in Spanish mechanics and in writing on selected topics. Class conducted in Spanish. Laboratory attendance is required at least three hours per week. Prerequisite: Twelve (12) semester hours of Spanish. Credit, three hours.

304. SPANISH DICTION AND CONVERSATION. Practice in aural and oral understanding, pronunciation and practical use of the language. Class conducted in Spanish. Laboratory attendance is required at least three hours per week. Prerequisite: Twelve (12) semester hours of Spanish. Credit, three hours.

305. SPANISH CIVILIZATION. A detailed study of the history and development of the Spanish nation, with emphasis upon geography, cultural institutions, literature, and art. Class conducted in Spanish. Prerequisite: Twelve (12) semester hours of Spanish. Credit, three hours.

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

307. LATIN AMERICAN LITERATURE. A review of the poetry, drama, and novel from 1850 through the contemporary period, including discussions on the modernist movement and Ruben Dario. Class conducted in Spanish. Prerequisite: Spanish 301-302. Credit, three hours.

308. SPANISH LITERATURE OF THE GOLDEN AGE. A study of some of the representative authors of the sixteenth and seventeenth centuries. Lectures, reading and individual reports. Class conducted in Spanish. Prerequisite: Spanish 301-302. Credit, three hours.

409. METHODS AND MATERIALS OF TEACHING SPANISH. Analysis of the methods of teaching modern foreign language including recent developments in this field, and notions of phonetics and applied linguistics. Examination of texts and classroom procedures discussed. Language laboratory attendance is required at least three hours per week. Prerequisite: Twelve (12) semester hours of Spanish. Credit, three hours.

THE DEPARTMENT OF HEALTH AND PHYSICAL EDUCATION

Associate Professor: Frederick, (Chairman)

Assistant Professors: Cooper, George, Williams, Watson, Burden

Instructors: Small, Russell

Departmental Assistants: McGuire, Jeter, Mitchell

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 opportunity 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 supply.

The curriculum in health and physical education offers the following areas of concentration: Health and Physical Education, Health Education, Pre-Study for Medically Allied Fields, and Recreation.

Students who are non-majors who are 27 years of age and older as well as veterans may be exempted from Physical Education 100. To fulfill their requirement, they may elect to take a minimum of two courses in physical education that are scheduled at the 100 level.

CURRICULUM OPTIONS IN HEALTH AND PHYSICAL EDUCATION

HEALTH AND PHYSICAL EDUCATION MAJOR Students who select the Health and Physical Education major must complete the general education program as required of all students (See General Education Requirements). In addition, the following courses are required: Physical Education 205, 206, 301, 302, 303, 304, 309, 310, 311, 312W, 315MW, 313, 314, 316M, 401MW, 402, 403, 404MW, 405, 308M; Biology 204; Education 204, 411, 400 or 412; Health Education 308, 404, 409, 412; Home Economics 301; Psychology 316.

HEALTH EDUCATION MAJOR Students who select the Health Education major must complete the general education program as required of all students (See General Education Requirements). In addition, the following courses are required: Health Education 204, 216, 305, 308, 313, 404, 409, 412, 413; Physical Education 313, 310; Biology 101, 204; Education 204, 312, 411, 412; Home Economics 301; Psychology 316, 208; Sociology 401.

PRE-STUDY FOR MEDICALLY ALLIED FIELDS MAJOR Students who select the Pre-Study For Medically Allied Fields area must complete the general education program as required of all students (See General Education Requirements). In addition, the following courses are required: three hours of physical education electives; Health Education 308, 404, 409; Physical Education 310, 313, 314, 316M, 405, 411; Biology 204, 305; Physics 201-202; Biology 101-102; Home Economics 301; Twelve (12) hours of German to meet the foreign language requirements.

RECREATION MAJOR Majors in this area must satisfy the general education program as required of all students (See General Education Requirements). In addition, the following courses are required: Physical Education 204, 205, 206, 301, 302, 303, 304, 306, 313, 315MW, 308M, 309, 310, 311, 312W, 314, 402, 403, 406M, 407, 416; Biology 204; Health Education 404; Psychology 316; Sociology 202, 301, 401; Three hours of music electives.

COURSE DESCRIPTIONS

HEALTH EDUCATION (15)

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 facts 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 other functions and activities of official health departments, voluntary agencies, and others engaged in professional health work. Credit, two hours.

415. ADVANCED PERSONAL HYGIENE. A course 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.

461. DRIVER AND TRAFFIC SAFETY EDUCATION. Driver and Traffic Safety Education is a (4) four hour course designed for Junior and Senior level students, who have been taught basic methods of teaching in their major fields. These students may be from any department, since driver education programs employ teachers from all majors. The student should hold a valid driver's license. Students should also be competent in handling an automobile.

Upon completion of the initial theoretical phase of training, students will be responsible for teaching a non-driver in car as the lab phase of their training. A \$12.00 lab fee is required of non-drivers as well as students in training. Credit, 4 hours.

PHYSICAL EDUCATION (16)

100. PHYSICAL EDUCATION ORIENTATION. A course designed to orient the student to the purposes of physical education. The course will include appraisal of motor skills, fitness and fundamental movements. 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. 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 \$8.00. 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, SOCCER 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. Course fee \$8.00. 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.

125-126-127-128. MODIFIED PHYSICAL EDUCATION. Activities suited to each student's 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 and referral of instructor. Credit, one hour for each course.

204. METHODS AND MATERIALS IN RECREATION. Treating recreational activity and the development of various recreational programs. Prerequisite: four hours of physical education. Credit, two hours.

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

206. HISTORY AND PRINCIPLES OF PHYSICAL EDUCATION. Historical and philosophical treatment of principles and objectives in physical education. Credit, three 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, table tennis, wrestling, shuffleboard are included. Credit, one hour.

302. METHODS AND MATERIALS IN GYMNASTICS AND TUMBLING. Activities in this course 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 materials of teaching physical education in elementary schools. Credit, three hours. (Physical education and Elementary Education majors.)

304. TEACHING PHYSICAL EDUCATION IN JUNIOR AND SENIOR HIGH SCHOOLS. Methods and materials of teaching physical education in the junior and senior high schools. Prerequisite: Physical Education 206. 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.

308. PHYSICAL EDUCATION SKILLS. Coaching and officiating track. Credit, one hour.

309. FOUNDATIONS OF COMMUNITY RECREATION. Introductory course in recreation including philosophy, theory, areas and facilities, publicity, legal status, personnel, and finance. Prerequisite: two hours of physical education. 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 is placed upon folk and square, modern and social dance. Prerequisite: P.E. 114-115. Credit, one hour.

312W. PHYSICAL EDUCATION SKILLS. Coaching and officiating soccer, speedball, and field hockey. Prerequisite: Physical Education 117. Credit, one hour.

313. HUMAN ANATOMY. Cross structure of the organs and organ systems of man. Three lectures and one laboratory period per week. Prerequisite: Biology 101 and 102. Credit, four hours.

314. KINESIOLOGY. 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—basketball. Credit, one hour.

316M. PHYSICAL EDUCATION SKILLS. Coaching and officiating—wrestling. 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. Prerequisite: Education 412. 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 given to the fatigue cycle, physical fitness, the chronic effects of exercise, and training methods. Credit, three hours.

406M. 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. Prerequisite: Physical Education 313, 314. Credit, three hours.

416. RECREATIONAL PRACTICUM. This course provides experiences in observing and participating in activities in a city or state recreational agency. Credit, three hours.

THE DEPARTMENT OF HISTORY AND POLITICAL SCIENCE

Professor: Hartnett (Chairman)

Associate Professors: Damuah, Flayhart, Gardner, Pu

Assistant Professors: Spina, Valle

Instructors: Lauter, Ramsey

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 to teach history and social science on the secondary level, and to prepare students for graduate study in history and political science.

CURRICULUM OPTIONS IN HISTORY AND POLITICAL SCIENCE

HISTORY MAJOR (NON-TEACHING) All students who select a major within the Department of History and Political Science must complete the general education program as required of all students (See General Education Requirements). For a major in History, thirty-three (33) semester hours of credit are required. (Any three-hour history course chosen to fulfill general education requirements can be used to fulfill the requirements of the major.) These must include History 101, 102, 201, 202, 404. In addition, the student must choose a minimum of eighteen hours of history courses at the 300 or 400 level, completing at least six hours of American History, six hours of European history, and three hours in Asian, African or Latin-American history. (This excludes History 404 and 445.) *Foreign Language 101-102 are required.

HISTORY MAJOR (TEACHING) All students who select a major within the Department of History and Political Science must complete the general education program as required of all students (See General Education Requirements). Students desiring to teach History and Social Science on the secondary level must complete twenty-eight (28) hours of History (This may include the 3 hours of history contained in the General Education Program). History 101, 102, 201 or 107, 202 or 108, 322, and 445 are specifically required. In addition, the prospective teacher must take Education 204, 312, 405 or 408, 411, 412; Political Science 103 or 211; Psychology 302, 316; Economics 201; Geography 101; Sociology 201. Foreign language is recommended for those intending to pursue graduate study.

*A history major who makes a score of 560 or higher on the CEEB Achievement Test in the foreign language prescribed in the curriculum option, either prior to entering Delaware State College or during the freshman or sophomore year at the college, will be considered to have satisfied the foreign language requirement for the baccalaureate degree in history.

MINORS

HISTORY MINOR For a minor in history, eighteen (18) semester hours are required as follows: History 322, 201 and twelve additional hours of which nine hours must be at or above the 300 level with at least three hours each in foreign and American history (excluding History 445).

POLITICAL SCIENCE MINOR For a minor in political science, fifteen (15) hours are required as follows: Political Science 103, 211, and nine additional hours.

BLACK STUDIES MINOR For a minor in Black Studies, seventeen (17) hours are required as follows: History 315 or 316 (African history); History 107 or 108 (Afro-American history); English 205 or 206 (Afro-American Literature); and Music 100 (Afro-American Music). The remaining six (6) hours must be selected from the courses listed under Black Studies Program in the catalog.

COURSE DESCRIPTIONS

GEOGRAPHY (32)

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

103. URBAN GEOGRAPHY. A study of the geographical factors which have helped to produce cities of the world and the impact of cities on the larger society. Credit, three hours.

HISTORY (34)

101. WORLD CIVILIZATION TO THE EIGHTEENTH CENTURY. A survey of the growth of the great cultures from ancient times to the 18th century. Credit, three hours.

102. WORLD CIVILIZATION FROM THE EIGHTEENTH CENTURY. A survey of the growth of the great cultures of the modern world from the 18th century to the present. The major emphasis of the course is on the trends and developments of the 20th century. Credit, three hours.

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

107. AFRO-AMERICAN EXPERIENCE TO 1860. A historical and analytical study of black Americans in the pre-Civil War era, including slavery, abolition, and protest. Credit, three hours.

108. RECENT BLACK EXPERIENCE. An interpretation of the institutional forces which molded modern American life for blacks, protest movements, and the contributions of blacks to American life. Credit, three hours.

201. AMERICAN CIVILIZATION TO 1865. A course that covers the period from 1492 to the close of the Civil War. Cultural and economic developments are given adequate emphasis. Credit, three hours.

202. AMERICAN CIVILIZATION FROM 1865. A study that concentrates on the United States from 1865 to the present with emphasis on the trends and developments of the 20th century. Credit, three hours.

300. HISTORY OF DELAWARE. The development of Delaware from colonial times to the present--the land, the people, the culture, the institutions. Resources of the state will be used and special projects will enable the students to play more part in preserving the rich heritage of the state. Credit, three hours.

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.

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.

306. SOCIAL AND CULTURAL HISTORY OF EAST ASIA. A survey of the 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 20th century; independence of India and other East Asian countries. Credit, three hours.

308. DIPLOMATIC HISTORY OF THE UNITED STATES. A history of American diplomacy from the Revolutionary War to 1898, with attention to domestic and foreign influences. Credit, three hours.

309. DIPLOMATIC HISTORY OF THE UNITED STATES. A continuation of 308 covering events since 1898. Special attention to domestic and foreign influences. Credit, three hours.

311. URBAN AMERICA. The evolution of the city from colonial times to the present; the forces that shaped it; its impact on American life; its challenge to modern Americans. Credit, three hours.

313. LATIN AMERICA TO 1824. The history of Latin America from pre-Columbian times through the wars of 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.

315. AFRICAN HISTORY TO 1884. The history of Africa from earliest times to the Berlin Conference which signaled the division of Africa by the European powers. Credit, three hours.

316. AFRICAN HISTORY SINCE 1884. The history of colonialism in Africa, the movement toward independence, and conditions in selected countries since independence. Credit, three hours.

318. SEMINAR IN BLACK STUDIES. This course will enable students to develop materials which give an analytical understanding of the historical and cultural settings of blacks in America and other countries. Prerequisite: Consent of the instructor. Credit, three hours.

319. BARBARIAN EUROPEAN HISTORY (400-1000). A study in depth of the great migrations which brought the disintegration of the Western Roman Empire, the creation of new states in Europe and the Mediterranean, the rise of Islam, and the Viking invasions. Credit, three hours.

320. BIRTH OF EUROPE (1000-1500). A study of the development of overseas expansion. Particular attention will be given to the rise of France, the reconquest of the Iberian Peninsula, the Crusades, and the history of Muscovite Russia. Credit, three hours.

321. EARLY MODERN EUROPE (1500-1815). A study of those forces which contributed to the formation of modern Europe: the growth of the nation-state; the Reformation; the expansion of trade; and the revolutions of the seventeenth and eighteenth centuries. Credit, three hours.

322. 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.

331. HISTORY OF RUSSIA TO 1825. The growth of Russian civilization from Slavic settlements in Europe, its expansion into East Asia and the beginnings of modernization. Credit, three hours.

332. HISTORY OF RUSSIA SINCE 1825. Political, economic and intellectual movements in the nineteenth century that culminated in the founding and growth of the Soviet Union as a present day super power. Credit, three hours.

344. INDEPENDENT STUDY. The student will study intensively a selected topic within a historical era under the guidance of a departmental member. Course requirements include regular conferences, reading assignments, and a written report. Prerequisite: consent of the instructor and approval by the Chairman. Credit, from one to four hours.

403. THE CIVIL WAR AND THE EMERGENCE OF MODERN AMERICA. An intensive study of the impact of the Civil War and its consequences upon American civilization. Credit, three hours.

404. SEMINAR IN HISTORY. An introduction of 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: Twelve hours of history. Credit, three hours.

413. HISTORY OF BRAZIL. A study in depth of the history and culture of this important and distinctive country in South America. Credit, three hours.

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.

461. SEMINAR IN AMERICAN HISTORY. Credit, three hours.

462. SEMINAR IN EUROPEAN HISTORY. Credit, three hours.

463. SEMINAR IN LATIN AMERICAN HISTORY. Credit, three hours.

464. SEMINAR IN ASIAN HISTORY. Credit three hours.

465. SEMINAR IN AFRICAN HISTORY. Credit, three hours.

The list of seminar classes each semester will show the specific topic to be covered. Example: Seminar in American History—Immigration in America.

POLITICAL SCIENCE (33)

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 must be taken before or at the same time this course is taken. 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.

214. METROPOLITAN POLITICS. A survey of the multi-dimensional view of the metropolis with emphasis on process and behavior as well as on form and structure. Credit, three hours.

221-222. COMPARATIVE GOVERNMENT, I and II. A study of selected groups of political systems which share 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, 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.

328. BLACK POLITICS IN AMERICA. A survey of contemporary Black politics—leaders, parties, and interest groups. The focus will be on demands made on the political system by blacks and the techniques employed to bring about realization of these demands. Prerequisite: Political Science 103. Credit, three hours.

330. FIELD WORK IN POLITICAL SCIENCE. Supervised experience designed to give the student first-hand knowledge of some aspects of political life. Required: Permission of instructor and preregistration. Credit, three hours.

466. SEMINAR IN POLITICAL SCIENCE. A specific topic will be developed and publicized at registration for each semester this course is offered. Credit, three hours.

THE DEPARTMENT OF HOME ECONOMICS

Professor: Adams (Chairman)

Assistant Professors: Eaton, Stevenson

Instructor: Bunch

The objectives of the Department of Home Economics are to give students a basic knowledge of homemaking and family life and to prepare students for careers, graduate study, and research in home economics.

The curriculum in home economics is designed for students who are interested in one of the several careers which are open to the home economics graduate in accord with the following **options**:

I. Home Economics Education—For students who are preparing to become home economics teachers in the secondary schools or preparing for Home Economics Extension Service positions:

II. Child Development and Family Relations—For students preparing for positions available to home economics graduates in nursery schools, day care centers, child welfare, recreation, merchandising in children's departments, and libraries. With additional training, careers are open in kindergarten—primary teaching, college teaching, family counseling, radio, television, journalism, parent education, and research.

III. Clothing, Textiles and Related Art—For students who are preparing for careers in the fashion world; clothing, textile, and interior design; retailing; textile testing and research.

IV. Foods and Nutrition—For students who are preparing for a professional career in dietetics, institutional management and experimental foods. With additional training, careers are open in such fields as college teaching, community nutrition programs, and research.

V. General Home Economics—For students who are preparing for professional work in the field of Home Economics Extension such as home demonstration and 4-H Club work and home service work with public utility and equipment companies. With additional training, careers are open in journalism, radio, television, and state Home Economics Extension work.

The curriculum in home economics in the first two years provides a liberal arts background along with introductory courses in home economics. A student should confer with the head of the Department of Home Economics not later than the second semester of the freshman year with regard to his

major professional interest. The program of study for the sophomore, junior and senior years is worked out for each student in conference with the Student's Program Advisor.

A major program in the Department of Home Economics includes a group of courses in the area of home and family living, with additional courses selected in accordance with the student's professional objectives. **All majors, however, must satisfy the general education requirements as outlined of all students in addition to certain departmental requirements as discussed below.**

For *Home Economics Education* and *General Home Economics* majors a minimum of thirty-eight semester hours, distributed among the following areas, are required by the department:

- Housing, home furnishings and home equipment,
- Family economics and home management,
- Family relations and child development,
- Foods and nutrition,
- Textiles and clothing, and
- Home Management Administration

For *Child Development*, *Clothing and Textiles*, and *Food and Nutrition* majors, a minimum of eighteen semester hours in the area of major interest and twenty semester hours distributed among the other areas are required.

All home economics majors are advised to take these courses under General Education requirements: Biology 101-102, Mathematics 101-102, Music 101 and Art 101-102. In addition, they should take Chemistry 103 and Chemistry 205, Biology 204, Home Economics 101, 102, 104; Three hours of home economics electives; English 200; Two semester hours of Physical Education at the 100 level.

Home Economics Education majors are advised to elect Education 204 instead of an elective in home economics the second semester of the sophomore year.

HOME ECONOMICS EDUCATION MAJOR The Home Economics Education curriculum is designed to prepare the student for teaching all phases of home-making. The background is varied enough to provide opportunities for the graduate to secure a position as a home economist with utility and equipment companies, as well as conduct educational programs with business and industrial companies.

The following courses are required by the department for a major in Home Economics Education: Home Economics 321, 322, 406, plus 20 hours of home economics electives; Sociology 201; Education 312, 411, 412; Biology 305; Psychology 316.

CHILD DEVELOPMENT AND FAMILY RELATIONS MAJOR This major offers unique opportunities for study of the child and his family with enriching experiences in a child development laboratory. Current emphasis on culturally disadvantaged families and children provides new professional opportunities to the home economist with a degree in Family and Child Development.

Courses are planned to create an awareness of the child as a developing personality and to promote understanding of the dynamics of family relationships. Through the cooperation of the community, opportunities may be provided for practical experiences with families and with children of all ages.

The following courses are required by the department for a major in Child Development and Family Relations: Home Economics 406, plus 33 to 35 hours of Home Economics electives; Sociology 201; Biology 305; Education 312; Art 201.

FOODS AND NUTRITION MAJOR Basic courses in foods, nutrition, chemistry, and physiology are required. A year of advanced training in an approved hospital or institution (food service unit) is required for the professional ranking of the dietician. A student may qualify as a teacher by electing such courses necessary to meet the requirements of the State Department of Public Instruction for certification.

The following courses are required by the department for a major in Foods and Nutrition: Home Economics 402, 406, plus 27 hours of home economics electives; Chemistry 301-302, 403; Economics 201; Education 312.

GENERAL HOME ECONOMICS MAJOR (NON-TEACHING) This general home economics program serves as a good foundation for positions that require a broad background of knowledge in all areas of home economics with the accompaniment of carefully selected related areas.

The following courses are required by the department for a major in General Home Economics: Home Economics 405, 406, 409, plus 20 hours of electives; Chemistry 301; Sociology 201; Psychology 304; Biology 305; Education 312.

CLOTHING, TEXTILES AND RELATED ARTS The following courses are required by the department for a major in Clothing, Textiles and Related Arts: Home Economics 406, plus 26 hours of electives; Chemistry 301; English 315; Economics 201; Art 305; Education 312; Business 108.

COURSE DESCRIPTIONS

HOME ECONOMICS (18)

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. MEAL PLANNING, PREPARATION AND SERVICE. (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 cooking as they promote good nutrition. An analysis of the practicability of their use in today's diet. Two lectures and two two-hour laboratory periods per week. Credit, four 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.

201. HISTORIC COSTUME AND DESIGN. A study of the development of costumes from primitive to modern times with consideration of historic, social, and economic settings; a study of design with emphasis on line and color in relation to the individual. The application of art principles are stressed in the creation of designs. One lecture and one laboratory period per week. Prerequisites: Art 101-102, Home Economics 104. Credit, two hours.

203. MEAL MANAGEMENT. Retail selection of food commodities in relation to level of spending; management of family and festive meals through organization of available resources. One lecture and two laboratory periods per week. Credit, three hours. Prerequisite: Home Economics 102.

204. CLOTHING FOR THE FAMILY. A study of the individual clothing needs of the family members; socio-economic and psychological aspects of clothing; buying principles, procedures and practices. Practical problems in wardrobe planning and construction in children's clothing. One lecture and two laboratory periods per week. Credit, three hours.

205. FLAT PATTERN DESIGN AND DRAFTING. A study of the fundamentals of pattern making through the drafting of flat patterns with emphasis on designing and fitting to individual specifications. One lecture and two laboratory periods per week. Prerequisites: Home Economics 104 and 204. Credit, three hours.

207. INTRODUCTION TO FASHION. A study of the sources, events, and people influencing fashion, fashion trends and their development as it relates to the clothing industry including retailing, promotion, designing and manufacturing. Two lectures per week. Credit, two hours.

301. INTRODUCTION TO NUTRITION. A study of the processes by which food is absorbed and utilized by the body. Three lectures per week. Prerequisite: Biology 204. Credit, three hours.

302. TEXTILE ANALYSIS. A study of textiles from the standpoint of consumer interests in quality, suitability, and cost. The influence of fiber, finishes, color design and construction in relation to use, serviceability, price, and care of house-

hold and clothing fabrics; visits to factories, stores, and testing laboratories. One lecture and two laboratory periods per week. Credit, three hours.

303. HOME EQUIPMENT. A study of the principles involved in the selection, arrangement, use and care of household equipment and appliances, evaluation of the construction of varied equipment. Lectures, demonstrations, laboratory and field trips are included. One lecture and two laboratory periods per week. Credit, three hours.

304. HOUSING AND HOME FURNISHINGS. Elementary house planning, survey of American architecture; trends in modern building; together with the principles of interior decoration. Illustrated talks, field trips and practical laboratory experiences are planned to help students with home furnishing problems. Two laboratory periods per week. Credit, three hours.

306. HOME MANAGEMENT. A study of the use of a family's resources toward the maximum achievement of a family's goals. Two lectures per week. Credit, two hours.

308. ADVANCED NUTRITION. A study of the fundamental principles of human nutrition and the contributions of various foods to the needs of individuals. Laboratory animals are used to demonstrate the effects of various foods. Three lectures per week. Prerequisites: Biology 204 and 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.

312. DESIGNING BY DRAPING. Social significance of fashion; application of design principles to dress. Designs draped in muslin and then completed in suitable fabrics. One lecture and two laboratory periods per week. Credit, three hours.

313-314. CHILD DEVELOPMENT AND CARE. A study of the behavior and development of the infant and pre-school child in the home environment; problems in preparation for the newborn; physical growth; the development of motor skills and of emotional and social behavior. Class discussions and readings supplemented by planned observations of children in the nursery school. Three lectures per week. Credit, three hours.

316. THE NURSERY SCHOOL. A study of the organization and operation of programs for young children. The study is supplemented by directed observations of various community nursery school programs and by participation in the Child Development Laboratory on campus. Credit, three hours.

318. CHILD CARE AND GUIDANCE. Principles of development and guidance of pre-school children in homes and in groups; application of principles in nursery school situations; planning and participating in activities appropriate for pre-school children outside the nursery school under direction of head teachers. Two lectures and three laboratory periods per week. Prerequisites: Home Economics 101, 203, 305. Credit, four hours.

320. ADVANCED TEXTILES. A study of the physical and chemical properties of textile fibers and fabrics with emphasis on recent scientific and technological developments. One lecture and two laboratory periods per week. Prerequisites: Home Economics 204, 302. Credit, three hours.

321. METHODS OF TEACHING HOME ECONOMICS EDUCATION. A study of methods of instruction in homemaking education with special reference to procedures for formulating objectives and philosophy of home economics education for secondary schools, adults and out-of-school groups. The current principles of teaching and classroom organization along with teaching aids, texts, references and tests in this field are evaluated in the light of the present day socio-economic factors and conditions. Three lectures per week. Credit, three hours.

322. ADVANCED METHODS OF TEACHING HOME ECONOMICS. In this course units of work and lesson plans are developed under the guidance of instructor. Current trends and practices, instructional and resource material and techniques in home making education are included. Prospective teachers of home economics education are given an opportunity to observe actual classroom instruction in this and related fields. Participation in various community based activities such as fairs and festivals, fashion shows, food, clothing exhibits, and other similar types of programs. Three lectures per week. 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 various phases of management. Three lectures per week. Prerequisites: Home Economics 102, 301. Credit, three hours.

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

403. DIET THERAPY A study of dietary modifications necessary in the treatment of pathologic conditions. Review of current literature on diet and disease. Three lectures per week. Credit, three 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. One lecture and two laboratory periods per week. Prerequisites: Home Economics 104 and 204 or consent of the instructor. Credit, three hours.

406. HOME MANAGEMENT ADMINISTRATION. 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.

OR

A planned Supervised Practicum with families/children/Home Management, through participation and observation may be arranged with a student in lieu of residence under conditions acceptable to and approved by the Chairman of the Home Economics Department. The Practicum is designed to increase the student's awareness and understanding of the dynamics of family resources management. Prerequisites: Home Economics 306, 203. Credit, six hours.

407. EXPERIMENTAL COOKERY. Influence of selection and preparation of ingredients, methods of manipulation and cookery on the palatability of nutritive value of foods. Use of inexpensive food 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.

HONORS PROGRAM

The Honors Program is conducted under the supervision of the Honors Council and the Director of the Program. The purposes of the program are to realize the potential of the students, 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 field trips.

HONORS COURSES

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, two hours each semester.

521-522. SOPHOMORE COLLOQUIUM. See Honors 511-512.

531-532. JUNIOR COLLOQUIUM. See Honors 511-512.

541-542. SENIOR COLLOQUIUM. The Senior Colloquium involves the Senior in the study of a current problem. The first part of the study should detail the problem and the second part, even if much shorter, should offer some solution to the problem. Seniors in this colloquium must spend both semesters on the study; in the first semester the teacher will help students select the problem by such means as lectures and discussions; (at the end of this semester no grade is given because the work has not yet been done;) in the second semester the student works with one or more other students, identifies a modern problem, studies it by interviews and other forms of contact and then writes a paper on the problem. Credit, four hours.

551-559. HONORS SEMINAR. In-depth study in selected topics offered within individual departments for honor students who are not majors in the particular field. Prerequisite: Sophomore standing and above or written permission of advisor. Credit, three hours each.

THE DEPARTMENT OF MATHEMATICS

Assistant Professors: Bragg (Chairman), Frankl, Smith, Washington

Instructors: Hamilton, Hawley, Tighe, *Tisdale

The general objectives of the Department of Mathematics are to provide opportunities for students to develop functional competence in mathematics; an appreciation for the contributions of mathematics to science, business, economics, and the social sciences; and the power of critical thinking. The Department strives to prepare students to pursue graduate study and for careers in teaching, government, and industry.

The Department of Mathematics aims to provide the student with a course of study directed toward an understanding of the nature of mathematical theory and its relation to other areas of knowledge. This study includes an emphasis on precision of definition, reasoning to precise conclusions, their relationships to one another and to non-mathematical phenomena, and an analysis of problems involving the mathematical principles studied.

All students who select a major within the Department of Mathematics must complete the general education program as required of all students. Specific courses required for the various curriculum options are indicated below.

CURRICULUM OPTIONS IN MATHEMATICS

MATHEMATICS MAJOR The requirements for a major in mathematics are thirty (30) hours selected from courses numbered 200 or above to include Mathematics 221, 222, 223. Mathematics 403 may not be used to fulfill this requirement. The major must also complete Physics 201-202. A student planning professional study in actuarial mathematics should plan a curriculum which will enable him to complete parts 1 and 2 of the Preliminary Actuarial Examinations.

MATHEMATICS MAJOR (TEACHING) The requirements for a teaching major in mathematics are thirty-three (33) hours of mathematics selected from courses numbered 200 or above to include Mathematics 221, 222, 223, 403. In addition, a mathematics teaching major must complete Education 204, 405, 411, 412; Psychology 201, 204, 302, 316; Physics 201-202.

*Leave of absence.

MATHEMATICS MAJOR (EMPHASIS IN MATHEMATICAL PHYSICS) A student who wishes to major in mathematics with an emphasis in Mathematical Physics must complete Mathematics 221, 222, 223, 401 and twelve hours to be selected from courses numbered 200 or above. In addition, the student must complete Physics 201-202, and six hours to be selected from Physics 201, 302, 404.

MINOR

MATHEMATICS MINOR Twenty-one hours are required for a minor in mathematics of which at least 15 hours must be selected from courses numbered 200 or above to include Mathematics 221-222.

COURSE DESCRIPTIONS

MATHEMATICS (25)

101-102. INTRODUCTION TO MATHEMATICS. A course designed to acquaint those students who will not be taking additional courses in mathematics with the basic concepts of mathematics. Topics treated will include set operations, logic, ratio and proportion, introduction to probability and statistics, and an introduction to computing. Any student who meets the admission requirements of the college may enroll in Mathematics 101. Credit, 3 hours each.

103-104. COLLEGE ALGEBRA AND TRIGONOMETRY. A course designed for students planning to continue study in mathematics and the sciences. Topics treated will include the real number system, exponents and radicals, functions, graphs, systems of equations, and an introduction to matrices and determinants. Prerequisite: One unit of high school algebra and one unit of high school geometry or consent of the department. Credit, three hours each.

105-106. MATHEMATICS FOR THE ELEMENTARY TEACHER A course 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, three hours each.

203. COLLEGE GEOMETRY. An 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 alternate years. Credit, three hours.

208. INTRODUCTION TO COMPUTING. A course in the organization and solution of problems using a digital computer. Programming languages used are BASIC, FORTRAN, and COBAL. Prerequisite: Mathematics 104 or approval of the Mathematics Department. Credit, three hours.

210. MATHEMATICS FOR MIDDLE SCHOOL SCIENCE TEACHERS. This course will include emphasis on measurement, probability and statistics with the application to both life and physical science. Much of the material will be based on mathematical principles which will be needed by the student in presenting modern science programs. Credit three hours.

211. PROBABILITY I. An introduction to finite probability and measurements with applications from the social and natural sciences. Topics treated will include sample spaces, probability measures, random variables, and expectation. Prerequisite: Mathematics 104. Credit, three hours.

221. CALCULUS I. An introduction to functions, limits, and continuity, a study of the derivative and differential and their applications and a development of the definite integral with applications. Prerequisite: Mathematics 104 or approval of the Mathematics Department. Credit, four hours.

222. CALCULUS II. A continuation of Math 221 covering logarithmic, exponential, trigonometric and hyperbolic functions, techniques of integration, indeterminate forms, improper integrals, Taylor's formula and infinite series. Prerequisite: Mathematics 221. Credit, four hours.

223. CALCULUS III. A continuation of Math 222 to include polar coordinates, vectors and parametric equations, solid analytic geometry and calculus of several variables. Prerequisite: Mathematics 222. Credit, four hours.

301. DIFFERENTIAL EQUATIONS. A treatment of the solutions of ordinary differential equations and their applications to various types of problems. Prerequisite: Mathematics 222. Credit, three hours.

302. LINEAR ALGEBRA. A treatment of vectors, matrices and determinants, linear transformations, and applications. Prerequisite: Mathematics 222. Credit, three hours.

303. PROBABILITY II. A treatment of probability models, probability distributions, law of large numbers, and an introduction to the theory of Markov chains. Prerequisites: Mathematics 222 and 211. Credit, three hours.

401-402. ADVANCED CALCULUS. A treatment of limits, continuity, properties of differentiable and integrable functions, sequences, and series. Prerequisite: Mathematics 223. Credit, three hours each.

403. METHODS OF TEACHING MATHEMATICS IN THE SECONDARY SCHOOLS. A study of the methods and materials used in teaching high school mathematics. Prerequisites: Mathematics 222. Credit three hours.

411-412. ALGEBRAIC STRUCTURES. A study of groups, rings, integral domains, fields, and topics in linear algebra. Prerequisites: Mathematics 222. Credit, three hours each.

498-499. SEMINAR IN MATHEMATICS. A treatment of selected topics in mathematics. Prerequisite: Consent of the department. Credit two hours each.

THE DEPARTMENT OF MUSIC EDUCATION

Professor: Brockington, Chairman

Assistant Professors: Cooper, Morrison

Instructor: Pigler, Carter

The Department of Music Education functions to accomplish the following objectives:

1. to prepare students for positions as music teachers in elementary and secondary schools and for graduate study;
2. to offer the courses in music education needed by prospective elementary school teachers;
3. to provide programs designed to stimulate the development of musical understanding and appreciation;
4. to provide music courses and musical activities for all students regardless of their major.

MUSIC EDUCATION MAJOR All students who select Music Education as a major must complete the general education program as required of all students (See General Education Requirements). In addition the following courses are required: Music Education 113-114, 202, 213-214, 302, 310 or 317, 311, 312, 313, 314, 321-322, 323-324, 401, 403, 410, 423, 424; Education 204, 411, 412; Psychology 201, 302, 316.

In addition, music majors are required to study their major performing medium for eight semesters, to attend departmental meetings of Music Education majors, music seminars and lyceum features, and to participate in student recitals. Majors must present a senior recital on their major performing medium as a part of graduation requirements.

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 a wind or percussion instrument for two semesters.

Students selecting a wind or percussion instrument as a major performing medium are required to participate in band eight semesters, to participate in choir two semesters, and to study voice two semesters. However, students with proficiency in more than one instrument may satisfy in any combination the 10-hour band and chorus requirement with the consent of the departmental chairman.

The courses that are offered in chorus and band are as follows: Chorus 107-108, 207-208, 307-308, 407-408; Band 115-116, 215-216, 315-316, 415-416.

COURSE DESCRIPTIONS

MUSIC (06)

100. AFRO-AMERICAN MUSIC. A study of Afro-American music with emphasis on style, performers, and composers. Credit, two hours.

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, three hours.

125. Class Piano (Non Music Majors). One credit hour.

135-136, 235-236, 335-336, 435-436. Applied Piano.

145-146, 245-246, 345-346, 445-446. Applied Voice.

155-156, 255-256, 355-356, 455-456. Applied Organ.

165-166, 265-266, 365, 366, 465-466. Applied Brasses.

175-176, 275-276, 375-376, 475-476. Applied Woodwinds.

185-186, 285-286, 385-386, 485-486. Applied Percussion Instruments.

195-196, 285-286, 385-386, 485-486. Applied Strings.

Credit, one hour each. Open to Music Majors only.

APPLIED MUSIC. Instrumental, keyboard, and vocal instruction in applied music. The development of performing skills is a basic objective. 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, to study in small groups. Students taking applied music for credit will be required in all cases to study with members of the departmental faculty.

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 each.

113. THEORY I. A course in the fundamentals of music, notation, terminology, voice classification, and the study of the elements of music: scale, rhythm, and tempo, to develop the ability to sing at sight and to take dictation. Five meetings per week. Credit, three hours.

114. THEORY II. Chord structure, inversion, dominant seventh, dominant ninth, and the use of the primary and secondary chords in all forms, to develop the ability to sing at sight and to take dictation. Five meetings per week. Prerequisite: Music 113. Credit three 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 each.

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

202. PUBLIC SCHOOL MUSIC—METHODS AND MATERIALS. A course designed to provide knowledge about and insight into practices, programs, and principles operative in music at the elementary school level. Prerequisite: non-music major, Music 201. Credit, three hours.

213. THEORY III. The use of non-harmonic tones, borrowed tones, the augmented sixth chords, enharmonic embellishments, chromatic progression of seventh chords, and advanced modulation to develop the ability to sing at sight and to take dictation. Five meetings per week. Prerequisite: Music 114. Credit three hours.

214. THEORY IV. A course in harmonization, modulation, improvisation, and transposition at the keyboard to develop the ability to sing at sight and to take dictation. Five meetings per week. Prerequisite: Music 213. Credit, two hours.

302. MATERIALS AND METHODS. A course which provides knowledge about and insight into the programs, practices and principles operative in music at the junior and senior high school levels. Credit, three 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 stringed instruments with emphasis on the violin. Credit, one hour.

313. PERCUSSION INSTRUMENTS. 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 conducting various meter, expressive and non-expressive gestures, cues, dynamics, and interpretation. Credit, two hours.

321-322. COUNTERPOINT. A study of the various orders, imitation, thematic construction, and analysis with practical written exercises in various contrapuntal forms. Prerequisite: Music 214. Credit, two hours each.

323-324. MUSIC HISTORY AND LITERATURE. A simultaneous study of the history and literature of music in the Western world through discussion, performance, analysis and recording. The first semester includes music from antiquity (Greeks) through the Renaissance period (Elizabethan era). The second semester includes a study of music from the Baroque period (Bach and Handel) through the classical period (Mozart). Credit, two hours each.

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 teaching techniques and 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. Prerequisite: Music 322. 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. Prerequisite: Music 322. Credit, two hours.

423-424. MUSIC HISTORY AND LITERATURE. A study of music during the Romantic period (Beethoven to Debussy). The fourth semester includes a study of music of the twentieth century (Les six through Serialism and Chance). Credit, two hours each.

THE DEPARTMENT OF PHILOSOPHY

Assistant Professor: Miller

Instructor: Price (Acting Chairman)

The Department of Philosophy offers courses designed to develop the student's ability to think clearly and critically throughout a wide range of problems, to stimulate his interest in fundamental questions concerning man's existence, purposes and methods, and to guide him in organizing his beliefs coherently. Students should note that any courses offered by the Department of Philosophy will fulfill the humanities general education requirements. None of the courses offered have prerequisites and the course numberings do not indicate suggested sequences.

CURRICULUM OPTION IN PHILOSOPHY

PHILOSOPHY MINOR For a minor in philosophy, fifteen hours distributed as follows are required: Philosophy 201, 206, either 300 or 302 and two three-hour electives in philosophy.

COURSE DESCRIPTIONS

PHILOSOPHY (03)

101. CRITICAL THINKING. Students read, discuss, debate, and write position papers about today's controversial issues. The aim of the course is to develop the ability to reason effectively, i.e., to analyze problems, identify the issues, critically evaluate evidence, argue logically, and reach and be able to defend justifiable conclusions. (Only for students who have not previously had a philosophy course.) Credit, three hours.

201. PROBLEMS OF PHILOSOPHY. (Previously "Introduction to Philosophy"). A 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. An 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; the nature of ethical judgement. Credit, three hours.

203. RELIGIONS OF MANKIND. A study of the basic concepts of the major religions of mankind. Credit, three hours.

206. LOGIC. A study of the methods and principles used to distinguish correct from incorrect reasoning, both deductive and inductive. Designed to help students reason more effectively themselves and to develop the ability to more cogently criticize the reasoning of others. Credit, three hours.

207. PHILOSOPHY OF SCIENCE. An investigation into the logical structure of scientific theories and an analysis of the general methodological concepts which play a crucial role in scientific inquiry, e.g., the notions of empirical import, explanation, prediction, confirmation, and lawlike statements. Credit, three hours.

300. HISTORY OF ANCIENT PHILOSOPHY. An examination of the great movements of philosophic thought of the Greek period, with special emphasis on Plato and Aristotle. Credit, three hours.

302. HISTORY OF MODERN PHILOSOPHY. A study of the major developments in Western Philosophy during the seventeenth and eighteenth centuries. Particular attention will be given to the thought of Hobbes, Descartes, Spinoza, Leibniz, Locke, Berkeley, Hume and Kant. Credit, three hours.

304. POLITICAL PHILOSOPHY. An examination of important concepts and theories of government. Credit, three hours.

307. THE PHILOSOPHICAL FOUNDATIONS OF URBAN PROBLEMS. A study of the philosophic bases and implications of contemporary urban problems, including such topics as the nature of man, the division of labor and the problems it generates and theories of how to establish a unified, harmonious community. Credit, three hours.

399. INDEPENDENT STUDY. Designed to enable the qualified student, under the guidance of a faculty member, to pursue in depth a selected area of interest in philosophy. Prerequisites: departmental approval. Credit, three hours.

401. ORIENTAL PHILOSOPHY. An investigation of the major philosophical ideas of the East. Credit, three hours.

402. PHILOSOPHY OF RELIGION. A systematic study of philosophical issues involved in religious belief, such as the existence of God, evil, freedom, faith, immortality, and the possibility and nature of religious knowledge. Credit, three hours.

461. SELECTED TOPICS IN PHILOSOPHY. Designed primarily for students with a basic knowledge of philosophy and for philosophy minors. See either the instructor or the departmental chairman for information on course content. Prerequisite: Departmental approval. Credit, three hours.

THE DEPARTMENT OF PHYSICS AND ASTRONOMY

Professor: Helmy (Chairman)

Assistant Professor: Purdy

Instructor: Gleeson

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.

CURRICULUM OPTIONS IN PHYSICS AND ASTRONOMY

PHYSICS MAJOR (NON-TEACHING) All students who select a major within the Department of Physics and Astronomy must complete the General Education Program as required of all students (See General Education Requirements). In addition, students who wish to major in physics but do not plan to teach at the secondary level must take 42 hours of physics, including the following: Physics 201-202, 203, 201L-202L, 301-302, 303-304, 305, 306, 401, 402, 404, 408;

French or German 101-102, 201-202; Chemistry 101-102.

Every non-teaching physics major must minor in mathematics. The minor program includes: Mathematics 103, 104, 221, 222, 223, 301, 401, 402.

PHYSICS MAJOR (TEACHING) All students who select this major must complete the general education program as required of all students (See General Education Requirements). In addition, students who plan to teach on the secondary level must take 31 hours of physics including: Physics 201, 202, 203, 201L, 202L, 303, 304, 305, 306, 401, 402, 409.

Every physics teaching major must take Astronomy 101; Biology 101-102; Chemistry 101-102, Mathematics 103, 104, 221, 222, 223, 301; Education 204, 312, 405, 411, 412; Psychology 204, 302, 316.

Students should note that some physics courses have mathematics prerequisites. The student should consult course descriptions listed below for prerequisite information. Mathematics 103 and 104 can be waived at the discretion of the department chairman for students whose high school records show that they have mastered the material covered in these courses.

CURRICULUM OPTIONS IN ENGINEERING

ELECTRICAL ENGINEERING MAJOR (see Electrical Engineering Option under Cooperative Program in Engineering for specific requirements).

PHYSICS/CIVIL ENGINEERING MAJOR (see Physics/Civil Engineering option under Cooperative Program in Engineering for specific requirements).

PHYSICS/MECHANICAL ENGINEERING MAJOR (see Physics/Mechanical Engineering option under Cooperative Program in Engineering for specific requirements).

COURSE DESCRIPTIONS

ASTRONOMY (22)

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

201. PRACTICAL ASTRONOMY. Basic training in observation with a large telescope. Time and celestial co-ordinate determinations. Preparation 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. 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 223; 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.

PHYSICS (26)

101-102. INTRODUCTION TO PHYSICS. An introductory course in physics with emphasis on mechanics, heat, light, electricity, and magnetism. Prerequisite: Completion of the mathematics requirements under general education. Credit, three hours each.

101L-102L. INTRODUCTION TO PHYSICS. Selected experiments in general physics. All experiments must be performed during the scheduled laboratory period. Corequisite: Physics 101 for 101L and Physics 102 for 102L. Credit, one hour each.

201-202. GENERAL PHYSICS. An elementary treatment of mechanics, wave motion, sound, heat, light, electricity, and magnetism. Some calculus concepts are employed and the problem method is largely used. Two lectures and one recitation period per week. Corequisites: Mathematics 221-222. Credit, three hours each.

201L-202L. GENERAL PHYSICS LABORATORY. Selected experiments in general physics. All experiments must be performed during the scheduled laboratory period. Corequisite: 201 for 201L and 202 for 202L. Credit, one hour each.

203. INTRODUCTION TO MODERN PHYSICS. An elementary treatment of topics in modern physics. Two lectures and one recitation per week. Corequisite: Mathematics 223. Credit, three 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 pre-

cautions. 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 single particles and systems of particles, fluids, rigid bodies, constrained motion and oscillations. An introduction to generalized coordinates and Lagrange's Equations, Hamilton's principle and Canonical Equations. Relativistic and wave mechanics is also considered. The vector method is emphasized. Three lectures and demonstrations per week. Prerequisites: Mathematics 201-202; Physics 201-202. Credit, three hours each.

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 221-222; Physics 201-202. Credit, three hours each.

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 221-222; 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 221-222; 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 221-222. Physics 302 or 304. Credit, four hours each.

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, 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, three hours each.

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

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

409. METHODS AND MATERIALS FOR PHYSICS TEACHERS. A course designed to acquaint prospective teachers of physics with current methods in physics education. Instruction will involve demonstrations of various approaches and experiences in handling materials used in teaching physics and physical science in the secondary school. Credit, three hours.

PHYSICAL SCIENCE (27)

101. GEOLOGY. A study of the composition and structure of the earth's crust and the agents and processes modifying the earth. Laboratory work includes the interpretation of geologic maps and the identification of rocks, minerals and fossils. Three lectures and one 100-minute laboratory period per week. Credit, four hours.

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.

THE DEPARTMENT OF PSYCHOLOGY

Professors: Miller (Chairman), Matty

Assistant Professor: Powell

Associate Professor: Laskaris

Instructors: Kurtz, Morgan

Departmental Assistant: Wright

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.

CURRICULUM OPTIONS IN PSYCHOLOGY

PSYCHOLOGY MAJOR All students who select Psychology as a major must complete the general education program as required of all students (See General Education Requirements). In addition, all majors in Psychology are normally required to take thirty-four (34) hours distributed as follows: Psychology 201, 202, 207, 316, 322, 323, 400, 413, 420, 421, 422.

The major sequence outlined above has been set up to serve as a guide and is not to be construed as a rigid or inflexible program. Although it is expected that most students will normally follow this sequence, a student may, with the approval of the department head, deviate from this sequence in order to carry out his total program.

MINOR

PSYCHOLOGY MINOR For a minor in psychology, eighteen hours distributed as follows are required: Psychology 201-202, 207, 316, 322, 400 or 413.

COURSE DESCRIPTIONS

PSYCHOLOGY (36)

101. READING STUDY SKILLS. 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.

201-202. 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. Three lectures and one two-hour laboratory period per week (Lab. in 202 only). 201 is a prerequisite to all other courses in psychology. Credit, 201, three hours; 202, four 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.

290. INTRODUCTION TO COMPUTERS. A basic course covering the fundamental concepts involved in the utilization of computers as problem solving, information handling and control devices. Computer applications to various fields will be emphasized using *BASIC* and *FOCAL* as the major programming languages. One lecture and one two hour lab per week. 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.

306. SYSTEM THEORY: PRINCIPLES AND APPLICATIONS. This course develops the theory of systems and the application of systems concepts and techniques to the design, analysis, and solution of problems in the areas of Education, Urban Affairs, man-machine systems, environmental problems, and the implementation of social programs. The course studies the theory and philosophy of generalized team problem-solving activities as applied to the solution of major human social problems. The component activities such as problem definition, setting objectives and value system design, systems synthesis, systems analysis, decision making, planning for action, and implementation are studied with reference to over-all models and relevant techniques. The techniques include a general introduction to modeling, simulation, and the behavioral, economic, and management aspects of design, utilizing computer facilities where possible. 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.

316. DEVELOPMENTAL PSYCHOLOGY I. This course studies the development of individuals from birth through adolescence including the physical, emotional, intellectual, social and psychological factors of development. Credit, three hours.

317. DEVELOPMENTAL PSYCHOLOGY II. This course surveys the problems and methods of research leading to scientific concepts of psychological growth and development with emphasis on the evaluation and solution of developmental problems. Credit, three hours.

322. ELEMENTARY STATISTICS. This course covers graphic representation of data, measures of central tendency, variability, introduction to statistical inference, correlation and linear regression. Credit, three hours.

323. ADVANCED STATISTICS. A course covering experimental design, simple and complex analysis of variance, correlational analyses, and non-parametric statistics. Prerequisite: Psychology 322 or equivalent. 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. Three lectures and one two-hour laboratory period per week. Prerequisite: Psychology 207. Credit, four 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. Three lectures and one two-hour laboratory period per week. Credit, four hours.

413. LEARNING AND MOTIVATION. The role of learning and motivation in behavior. Three lectures and one two-hour laboratory period per week. Credit, four 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.

420-421. 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 each.

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.

430. INDIVIDUAL READING AND CONFERENCE. This course is designed to provide the student the opportunity for individual extensive reading in a selected topic under the guidance of a member of the psychology department staff. Specific activities will include (a) reading as directed, and (b) conferring with the instructor on the readings completed. A written report is required. Admission by permission of the instructor and the department head. Prerequisites: Psychology 322 and 400. Credit, two hours. (May be repeated once for credit.)

THE DEPARTMENT OF SOCIOLOGY AND URBAN AFFAIRS

Associate Professor: Thomasson

Assistant Professor: *Washington, Glaeseman

Instructor: Brittingham (Acting Chairman), Scott

The Department of Sociology and Urban Affairs 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. Service courses for students majoring in other areas are also provided. The Department offers majors in Sociology and Urban Affairs and a minor in Sociology.

The Sociology major provides an in-depth introduction to the academic discipline of Sociology, to its methods and to its findings. This major is appropriate for those students who wish to pursue graduate study in Sociology and for those who wish to qualify for positions requiring no graduate professional education in various agencies.

Although a Master's degree with a major in sociology is usually the minimum requirement for employment as a Sociologist; individuals with a Bachelor's degree in sociology may be able to secure other positions in this or related fields.

The Urban Affairs major offers an opportunity for examination of the urban condition within the framework of liberal arts. The program is interdisciplinary and is designed to expose the student to a core program in sociology, political science, psychology, geography, economics and history which will provide him with the understanding of the basic concepts and techniques with which he may effectively function in a leadership role as an agent for change in the urban community.

CURRICULUM OPTIONS IN SOCIOLOGY AND URBAN AFFAIRS

SOCIOLOGY MAJOR All students who select Sociology as a major must complete the general education program as required of all students (See General Education Requirements). Students should note that in order to graduate with a major in Sociology a total of 121 hours must be successfully completed including 30 semester hours in Sociology. Required courses for a major are: Sociology 201, 303, 312, 314, 401; fifteen (15) credit hours of Sociology electives, of which six (6) must be at or above the 300 level; Psychology 290, 322, and 323. In addition to these requirements, the student must complete: History 201 or 107, and 202 or 108, six (6) hours of social science electives, and six (6) hours of the same foreign language.

*Sabbatical Leave

MINOR

SOCIOLOGY MINOR For a minor in sociology, eighteen hours including the following are required: Sociology 201, 303, 312, plus nine additional hours in sociology, of which six (6) hours must be at or above the 300 level.

URBAN AFFAIRS MAJOR All students who select Urban Affairs as a major must complete the general education program as required of all students (See General Education Requirements). Students should note that in order to graduate with a major in Urban Affairs, a total of 121 hours must be successfully completed, including sixty-eight semester hours drawn from various departments. Required courses for the major are: Sociology 201, 203, 303, 304 and 305; Psychology 306, Psychology 322 or Economics 307; History 102 or 108; Economics 201 and Urban Affairs 103, 212, 309, 314, 321, 350, 400, 441, 442, and 450.

COURSE DESCRIPTIONS

SOCIOLOGY (37)

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.

203. SOCIAL PROBLEMS. A sociological treatment of contemporary social problems. 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.

206. CULTURAL ANTHROPOLOGY. Human culture and its role in the determination of man's behavior. The relationships of kinship, political, economic and religious institutions within culture systems, with a particular emphasis upon the operation of these institutions in non-Western societies. Prerequisite: Sociology 201. Credit, three hours.

250. BLACK POWER IN CONTEMPORARY SOCIETY. Intensive study of (1) the historical development of Black Power movements in the 1960's and (2) the sociopolitical writings of contemporary intellectual leaders in the Black Power "movement." Credit, three hours.

290. INTRODUCTION TO COMPUTERS. See Psychology 290.

301. JUVENILE DELINQUENCY. The delinquency problem. Factors associated with delinquency, preventive measures, rehabilitation. Prerequisites: Sociology 201. Credit, three hours.

303. SOCIAL PSYCHOLOGY. An intensive study of the factors and processes which shape the individual in group life. Prerequisite: Sociology 201. Credit, three hours.

304. RACIAL AND ETHNIC STRATIFICATION. A study of the basic nature of interracial relations. Analysis of problems connected with the larger minority groups in the United States. Prerequisite: Sociology 201. Credit, three hours.

305. URBAN SOCIOLOGY. The ecology, social processes, organizations, and problems of the urban community. Recent developments are emphasized. Prerequisite: Sociology 201. Credit, three hours.

306. SOCIOLOGY OF RELIGION. Social context of religious ideologies and structures with special reference to religion in America. Prerequisite: Sociology 201. Credit, three hours.

308. CRIMINOLOGY. The nature and extent of crime in the United States, theories of crime, problems of rehabilitation. Prerequisite: Sociology 201. Credit, three hours.

310. SOCIAL STRATIFICATION. Analysis of stratification theories and of major empirical research in the area. Considers effects of social stratification in the United States. Prerequisite: Sociology 201. Credit, three hours.

312. SOCIOLOGICAL THEORIES. Description and critical study of the more important sociological theories of the nineteenth and twentieth centuries. Prerequisite: Sociology 201. Credit, three hours.

314. METHODS OF RESEARCH IN SOCIOLOGY. An introduction to research problems, design, and procedures in sociology. Prerequisite: Sociology 201. Credit, three hours.

315. SOCIAL WELFARE POLICIES AND PROGRAMS. Institutional analysis of social welfare; social agencies; sociological aspects of social work as a profession. Emphasis on the federal, state and local, public and private dimension of the development of social welfare policy with a focus on institutional influence over the development of social welfare policy in America.

320. POLITICAL SOCIOLOGY. Study of the social determinants of political structures and behaviors. Prerequisite: Sociology 201. Credit, three hours.

322. ELEMENTARY STATISTICS. See Psychology 322.

323. ADVANCED STATISTICS. See Psychology 323.

330. POPULATION ANALYSIS. The social biology of man. A study of the interrelationships of man and his environment and the implications of the growth of human populations. Jointly offered by the Department of Sociology and Agriculture and Natural Resources. Prerequisite: consent of the instructors. Credit, three hours.

399. INDEPENDENT STUDY. Individual reading or field study by students wishing to pursue a special interest within the field of sociology, but not covered by one of the regular sociology courses. Prerequisite: consent of the instructor. Credit, one, two or three hours.

401. THE FAMILY. Historical evolution of family structures and functions, current changes and problems. Prerequisite: Sociology 201. Credit, three hours.

403. RESEARCH PLANNING. Preparation for a student research project; entails supervised research planning, including background reading to delimit the area of investigation and development of the research design, data collection instruments, and plans for analysis. Prerequisite: Sociology and Urban Affairs 314 (Methods of Research). Credit, three hours.

404. ADVANCED RESEARCH METHODS. Execution of a student research project; involves supervised research participation, data analysis, and interpretation of results. Prerequisite: Sociology 403 (Research Planning). 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. Prerequisite: Sociology 201. Credit, three hours.

410. THE SMALL GROUP. Critical analysis of major theories and current research on the small group. Impact of the small group on socialization, communication, roles, leadership, perception, conformity. Organization and function of small groups. Case studies of small groups in gangs, industry, the military, the school, family interaction. Prerequisite: Sociology 303. Credit, three hours.

420. COMPLEX ORGANIZATIONS. Analysis of the structure of complex organizations in their cultural context. Sociological factors in industrial, economic and social organizations. Prerequisite: Senior standing. Credit, three hours.

430. SENIOR SEMINAR IN SOCIOLOGY. An examination and discussion of selected topics in Sociology. Prerequisite: Consent of department. Credit, three hours.

URBAN AFFAIRS (38)

103. URBAN GEOGRAPHY. See Geography 103.

106. URBAN ECOLOGY. See Natural Resources 106.

212. STATE AND LOCAL GOVERNMENT. See Political Science 212.

306. SYSTEM THEORY: PRINCIPLES AND APPLICATIONS. See Psychology

307. THE PHILOSOPHICAL FOUNDATIONS OF URBAN PROBLEMS. See Philosophy 307.

309. FOUNDATIONS OF COMMUNITY RECREATION. See Physical Education 309.

314. METHODS OF RESEARCH IN URBAN AFFAIRS. An introduction to research problems, design and, procedures and techniques specifically applicable to urban problems.

321. URBAN ECONOMICS. See Economics 321.

350. URBAN AFFAIRS LABORATORY EXPERIENCE. A field study of urban affairs and the federal urban relations in selected settings and agencies in Delaware. The laboratory will focus on selected special topics which vary from term to term with seminar meetings and conferences with representatives of governmental and private agencies concerned with the topics selected. Students will be assigned extensive readings and special problems for personal investigation. The whole will be tied together with interpretive sessions with the supervising faculty member. Prerequisite: Consent of Department required. Credit, four hours.

400. URBAN PLANNING. This course is primarily concerned with the basic concepts of planning and urban development, the legislative and administrative framework and organization of planning urban areas and understanding planning as a continuing process.

It will include analysis of the efforts being made to shape the face of urban America and to adjust to the problems of the city. The role of planning in the solution of major contemporary urban problems is viewed through exploration of public and private efforts to achieve success in such programs as urban renewal, model cities, regional development, poverty programs, public housing schemes, etc. Prerequisite: Consent of Department. Credit, four hours.

441-442. URBAN SEMINAR I, II. Analysis in depth of selected major issues confronting American metropolitan society together with proposed strategies for intervention. Issues studied will vary from year to year and may include: The urban culture of poverty of today and earlier periods; slums and urban renewal; acculturation, assimilation and integration of minority groups in American cities; mass leisure, its uses and opportunities, etc. Student participants in the seminar will choose individual or group topics for intensive study and for presentation of the required senior report. Experts from appropriate fields will be used as resource persons. Prerequisite: Consent of department. Credit, three hours.

Second half of course will be conducted as a block course for a period of three weeks with students attending class three hours daily. Credit, three hours.

450. URBAN AFFAIRS INTERNSHIP. Following participation in Urban Seminar II, students will explore and observe urban issues as they arise, are debated and eventually resolved in nearby urban communities. Individual and group observation and study will take place under the guidance of the college coordinator and in participation with a variety of citizen and governmental agencies. The student is responsible for making his own housing and transportation arrangements. Assistance in locating housing will be provided by the college. Prerequisite: Urban Seminar II. Credit, twelve hours.



Ground Breaking for the New William C. Jason Library

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Dover, Delaware

Dr. Luna I. Mishoe, President, Delaware State College,
Dover, Delaware

*Deceased

**Filling unexpired term of Mr. Grubb

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1973-1974

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Shirley Konecny..... *Technical Assistant (Science Library)*
Mary F. Tulecki, B.A. *Technical Assistant*
Mary L. Parker..... *Clerk-Stenographer*

*Sabatical leave

**Part of year

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Constance Davis..... *Residence Hall Assistant, Jenkins Hall*
Gladys L. Elliot *Residence Hall Assistant, Jenkins Hall*
Bertie L. Hamilton *Residence Hall Assistant, Laws Hall*
Annie Blue *Residence Hall Assistant, Tubman Hall*

*Part of year

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Viola Summers.....	Residence Hall Aide
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B.S., Delaware State College	
*Beverly M. Aurillo	Secretary

*Part of year

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Rodger Wilson, B.A.....	Assistant to the Business Manager
Charlotte Abbott, B.S.....	Chief Accountant
Marvin K. Hackett, M.B.A.	Director of Personnel
Minnie Hill, B.S.	Bookkeeping Supervisor
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N. Lee Bartsch	Clerk-Internal Funds
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Loretta Jackson.....	Invoicing Audit Clerk
Joanne Montgomery	Invoicing Audit Clerk
Ruth Scotten	Secretary to Business Manager
Harvey Shockley.....	Purchasing Agent
Alfreda Smith.....	Bookkeeping Machine Operator
Charles Summers	Storekeeper
Virginia Walls	Invoicing Supervisor
Doris Wood	Personnel Assistant

Computing Laboratory

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Walter D. Parks.....	Technical Supervisor
Wayne M. Moore	Computer Operator
Audrey O. Daniels.....	Operator Trainee
Carolyn D. Clinton.....	Key Punch Operator
Jane K. Totly	Programmer/Analyst

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Donald Hunter.....	Assistant Director
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Directors in Charge**

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*Part of year

158 Delaware State College

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B.S., Savannah State College
Leroy Sage *Custodial Services*
Thomas T. Donovan *Office Manager*

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Melvin Harris *Acting Director*
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Sylvia Pendleton *Secretary*

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1973-1974

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ASSISTANT PROFESSORS

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*Sabbatical Leave

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Coordinator of Del-Mod Program
B.S., Benedict College
M.Ed., Pennsylvania State University

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

*Sick Leave
**Part of Year

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M.A., D.A., Carnegie-Mellon University

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B.A., M.A., University of Delaware

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M.A., The Rutgers University

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*Sabbatical Leave
**Sick Leave

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Director of Athletics
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M.A., University of Michigan

INSTRUCTORS

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Acting Chairman, Department of Sociology
and Urban Affairs
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M.S.W., The Ohio State University

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D.Ped., Havana University

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M.Ed., Alabama State College

***JOHN COOK**

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B.F.A., McGill University
M.A., Columbia University

JOHN DEENY

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B.S., Delaware State College
M.S., University of Delaware

BARBARA deGRASSE

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B.A., Delaware State College
M.A., University of Delaware

HELEN DUFF

Instructor of Art Education
B.A., University of Pennsylvania
M.A., University of Delaware

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M.A., University of Wisconsin

ANDREW SOL JOHNSON

Acting Assistant Academic Dean
Instructor of Education
B.S., South Carolina State College
M.A., New York University

MARY KING

Instructor of Education
B.S., Chicago Teachers College
M.A., DePaul University

JAMES KURTZ

Instructor of Psychology
B.S., St. Vincent College
M.A., University of Delaware

*Part of Year

**Part-time

FREDERICK LAUTER

Instructor of History and Political Science
A.B., Duke University
M.A., University of Delaware

PATRICIA LAWSON

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M.S., Atlanta University

RITA MORGAN

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M.A., Atlanta University

****EDITH MROZ**

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B.A., Graceland College
M.A., University of Delaware

****JACK MUSSER**

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M.A., University of Delaware

DORENE PETROSKY

Instructor of Biology
B.S., University of Massachusetts
M.S., University of Wisconsin

YVONNE PIGLER

Instructor of Music
B.S., Potsdam State Teachers College
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COMPOSITION OF STUDENT ENROLLMENT

First Semester 1973-74

	<i>In-State</i>	<i>Out-of-State</i>	<i>Total</i>
Boarding Students	293	458	751
Non-Boarding Students	837	55	892
Evening Students	232	0	232
Part-Time Students	107	0	107
Career Opportunity Program	40	0	40
	---	---	---
TOTAL	1,509	513	2,022

Second Semester 1973-74

	<i>In-State</i>	<i>Out-of-State</i>	<i>Total</i>
Boarding Students	267	434	701
Non-Boarding Students	806	53	859
Evening Students	224	0	224
Part-Time Students	113	0	113
Career Opportunity Program	40	0	40
	---	---	---
TOTAL	1,450	487	1,937

STATES AND FOREIGN COUNTRIES REPRESENTED IN
STUDENT ENROLLMENT
1973-74 ACADEMIC YEAR

STATE	FOREIGN COUNTRIES
Alabama	Bermuda
California	British West Indies
Colorado	Cuba
Connecticut	Dominican Republic
Delaware	Ethiopia
District of Columbia	Ghana
Florida	Great Britain
Georgia	India
Illinois	Iran
Indiana	Italy
Kentucky	Nigeria
Maine	Philippines
Maryland	Puerto Rico
Massachusetts	
Michigan	
Mississippi	
Nevada	
New Jersey	
New York	
North Carolina	
Ohio	
Pennsylvania	
Rhode Island	
South Carolina	
Tennessee	
Texas	
Virginia	

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