



COLLEGE OF HEALTH SCIENCES

- **Advisement and Academic Enrichment Opportunities**
- **Pass/Fail Courses**
- **Dean's Scholar Program**
- **Health, Nutrition, and Exercise Sciences**
- **Health Studies**
- **Medical Technology**
- **Nursing**

The College of Health Sciences includes the Departments of Health, Nutrition, and Exercise Sciences, Medical Technology, and Nursing. Undergraduate major degree programs are offered in Applied Nutrition, Athletic Training, Dietetics, Exercise Science, Health and Physical Education, Health Behavior Science, Health Studies, Medical Technology, Nursing, Nutritional Sciences, and Sport Management.

Students in the college are encouraged to engage in undergraduate research projects, internships, study abroad, seminars, and the college's numerous student organizations. Students interested in such opportunities should consult with their faculty advisor. For more information, contact Dean Betty Paulanka, 345 McDowell Hall, or send email to ud.chns@udel.edu or visit www.udel.edu/health

ADVISEMENT AND ACADEMIC ENRICHMENT OPPORTUNITIES

Students are assigned a faculty advisor in their major department to provide advice on course selection, degree requirements, career opportunities, and graduate study. Faculty advisors can also assist with setting up special opportunities such as internships and research experience. It is recommended that students meet with their faculty advisors at least once each semester. The Office of the Assistant Dean for Student Services, 343 McDowell Hall also provides advisement to students who experience academic difficulties or who require additional guidance or information.

Students in most of the college's majors are eligible to participate in the University's Honors Program, undergraduate research, and Degree with Distinction. Honors Degrees are available to students in programs offered by the Departments of Health, Nutrition, and Exercise Sciences, Medical Technology, and Nursing.

PASS/FAIL COURSES

Courses taken pass/fail cannot be used to complete major requirements in the College of Health Sciences unless those courses only are offered on a pass/fail basis. Pass/fail courses can be counted only as free electives.

DEAN'S SCHOLAR PROGRAM

The Dean's Scholar Program exists to serve the needs of students whose clearly defined educational goals cannot be effectively achieved by pursuing the standard curricula for all existing majors, minors, and interdepartmental majors sponsored by the University. Driven by an overarching passion or curiosity that transcends typical disciplinary bounds and curricula, a Dean's Scholar's intellectual interests may lead to broad interdisciplinary explorations of an issue or to more intense, in-depth studies in a single field at a level akin to graduate work. In consultation with faculty advisors and the Associate or Assistant Dean of their college, Dean's Scholars design an imaginative and rigorous individual plan of study to meet the total credit hours required for graduation. Contact the Assistant/Associate Dean in the college or go to www.udel.edu/deansscholar/ for more information and the application.

HEALTH, NUTRITION, AND EXERCISE SCIENCES

Telephone: (302) 831-2265
www.udel.edu/HESC

The Department of Health, Nutrition, and Exercise Sciences offers undergraduate majors in Applied Nutrition, Athletic Training, Dietetics, Exercise Science, Health and Physical Education, Health Behavior Science, Nutritional Sciences, and Sport Management, most with Honors Degree options, as well as minors in Coaching Science, Nutrition, Figure Skating Coaching, and Strength and Conditioning. The programs integrate background coursework in the natural and physical sciences, and, for some programs, courses in business, with the study of the major field. This broad spectrum of undergraduate programs prepares students for a variety of careers in the arenas of health care, education, recreation, and sport/fitness/nutrition management, as well as business, industry, and public, private, or government agencies.

Each student's academic advisor, a faculty member with expertise in the student's field of interest, will assist in selecting courses and experiences that focus on the student's interests and professional goals. Careful selection of liberal arts requirements and elective courses allows students to pursue a minor or an area of interest outside of the college, a double degree, double major, or

interdepartmental major. Students are encouraged to meet with their faculty advisors at least once each semester. Failure to meet regularly with a faculty advisor can result in a delay in graduation if program requirements have not been met.

Students are encouraged to enrich their academic programs by participating in study abroad experiences, seminars, and student organizations. To enhance prospects for employment and obtaining internships, students are encouraged to seek experiences outside the classroom. For those planning to pursue a graduate program, research apprenticeships are available. Opportunities exist for students to participate as student members of national, regional, and statewide professional organizations related to each major.

There are several special academic opportunities for exceptionally talented and highly motivated students. Students in most majors may participate in the University's Honors Program, undergraduate research, and the Degree with Distinction program. The College's Dean's Scholar Program also provides qualified students with the opportunity to develop individualized programs of study.

MAJOR DEGREE PROGRAMS

The Applied Nutrition major is designed for the student who can creatively combine the study of nutrition with other academic areas. The curriculum is flexible so that a concentration such as Gerontology, Food Service Management, Pediatrics, Health and Exercise, or Weight Management may be incorporated.

The Athletic Training major is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP). This major prepares students for taking the NATABOC exam for certification as an Athletic Trainer (ATC.)

The completion of the Dietetics major is the first step leading to the attainment of certification as Registered Dietitian by the American Dietetic Association (ADA). The University of Delaware's Didactic program in Dietetics is currently granted accreditation status by the Commission on Accreditation for Dietetics Education (CADE) of the American Dietetic Association, 120 South Riverside Plaza, Suite 2000, Chicago IL 60606-6995, 312-899-0040. Students in this major complete the professional practice requirement after the Bachelor of Science degree by completing an ADA dietetic internship. See the Graduate section of the Catalog for information on the Dietetic Internship Program.

Concentrations within the Exercise Science major allow students to further specialize in Biomechanics or Exercise Physiology. Graduates of the program in Biomechanics are prepared to work in Gait Analysis laboratories or to go on for further graduate or professional study in Physical Therapy. The Exercise Physiology concentration is designed primarily for students interested in going on to graduate school, Physical Therapy School, or Medical School.

The Health and Physical Education program is accredited by the National Council for Accreditation of Teacher Education (NCATE). This comprehensive program prepares students to teach both health education and physical education in grades K-12. Students in this major begin regular exposure to teaching students in the schools early in the program.

Students in the Health Behavior Science major select a concentration in Fitness Management or Leisure Service Management. Internships, practicums, and clinical experiences are available in each program. The Fitness Management curriculum prepares students for work in the health and fitness industry. Leisure Service Management prepares students for leadership positions in the recreation industry.

The Nutritional Sciences major is for students who want to focus strongly on the science aspects of human nutrition. As a premedical program, it prepares students for careers in dentistry, veterinary and human medicine, laboratory research in nutrition, or positions with companies or agencies requiring the extensive use of a strong science and human nutrition background.

The Sport Management major is for students interested in managerial or administrative positions in the sport industry or collegiate level athletics. Practicums, internships, and selected courses from the Lerner College of Business and Economics are required.

LIFETIME ACTIVITIES PROGRAM

A varied activity program is available to all students on a pass/fail credit basis. The objectives of the lifetime activities program are: (1) to provide knowledge and skills essential for leisure-time enjoyment, (2) to develop healthy exercise habits as well as a sound knowledge base in the scientific principles of physical activity, and (3) to provide an enjoyable atmosphere for learning skills that encourage lifetime participation.

HONORS DEGREES IN THE DEPARTMENT OF HEALTH, NUTRITION, AND EXERCISE SCIENCES

Students can earn an Honors Bachelor of Science Degree in Applied Nutrition, Athletic Training, Dietetics, Exercise Science, Health Behavior Science, Health and Physical Education, or Nutritional Sciences by completing the following requirements:

1. All requirements for the Bachelor of Science Degree in the respective major.
2. All of the University's generic requirements for the Honors Baccalaureate Degree (see page 45).

APPLICATION PROCEDURES

Entering freshmen and transfer students may be admitted directly into the majors in Applied Nutrition, Dietetics, and Nutritional Science. Freshmen seeking admission to the majors in Athletic Training, Exercise Science, Health and Physical Education, Health Behavior Science, and Sport Management are admitted to interest groups associated with each major. Freshmen participating in an interest group are eligible to apply for admission to one of these majors at the end of the freshman year.

The department reviews applications from University of Delaware students who wish to change majors twice a year, with applications due on December 15th and June 1st. Applications are available 30 days prior to each due date. Students are notified of admission decisions after semester grades are posted. Students not admitted to a major may apply again the following semester.

To be eligible for admission to a department major, students must have completed at least 12 credits at the University of Delaware with a minimum GPA of 2.50 and must have met the criteria for admission to each respective major. Some majors have more stringent GPA requirements and some majors are restricted due to enrollment limits.

Enrollment in HESC major courses is restricted to majors. Non-majors are allowed to register for 100- and 200-level courses through the drop/add process if space is available. Non-majors are not normally permitted in 300- and 400-level courses.

DEGREE REQUIREMENTS FOR MAJORS WITHIN THE DEPARTMENT OF HEALTH, NUTRITION, AND EXERCISE SCIENCE

GENERAL STUDIES REQUIREMENTS

UNIVERSITY REQUIREMENTS

ENGL 110	Critical Reading and Writing (minimum grade C-)	3
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Multicultural course:

Three credits in an approved course or courses stressing multi-cultural, ethnic, and/or gender-related course content.	3
<i>This course can be used in the Breadth Requirements, Major Requirements, or Electives.</i>	

BREADTH REQUIREMENTS**HUMANITIES AND COMMUNICATION SKILLS**

Students choose selected courses from the following departments: Art, Art History, Communication, Comparative Literature, English, Foreign Language (including: CHIN, FREN, GREK, GRMN, HEBR, ITAL, JAPN, LATN, PORT, RUSS, SPAN), Foreign Languages and Literatures, Jewish Studies, Linguistics, Museum Studies, Music, Philosophy, Theatre, Women's Studies (WOMS 203, 205, 210, 216, 222, 318, 320, 326, 328, 330, 353, 380, 382, 389, 465, 480), Science and Culture (CSCC 229, 241, 246, 250, 330, 365, 368, 369, 444).

SOCIAL SCIENCES

Students choose selected courses from the following departments: Anthropology, Black American Studies, Business Administration, Criminal Justice, Economics (including FREC 150), History, Individual and Family Studies (IFST 201, 221, 230, 329, 401, 403, 405, 422), Political Science, Psychology (except 209 and 314), Sociology, Women's Studies (WOMS 201, 202, 206, 207, 211, 212, 213, 233, 240, 291, 298, 299, 300, 303, 323, 350, 363, 407, 413, 415, 430, 436, 460, 484, 498), Science and Culture (CSCC 233, 311, 355, 382).

BIOLOGICAL AND NATURAL SCIENCES AND MATHEMATICS

Students choose selected courses from the following departments: Accounting, Animal Science, Biological Sciences, Chemistry, Computer and Information Science, Computer Engineering, Electrical Engineering, Engineering Technology, Materials Science, Mechanical Engineering, Entomology and Wildlife Ecology, Food Science, Geography, Geology, Marine Studies, Mathematics, Medical Technology, Psychology (PSYC 209 and 314), Physics and Astronomy, Plant and Soil Sciences, Science, and Statistics.

DEGREE: BACHELOR OF SCIENCE
MAJOR: ATHLETIC TRAINING

CURRICULUM	CREDITS
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UNIVERSITY REQUIREMENTS

ENGL 110 Critical Reading and Writing (minimum grade C-)	3
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Multicultural course:

Three credits in an approved course or courses stressing multi-cultural, ethnic, and/or gender-related course content.	3
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BREADTH REQUIREMENTS

Humanities and Communication Skills*	9
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Including: CSCC 241 (3 credits)

*Must include courses from at least two different departments

Social Sciences	6
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Including: PSYC 100 (3 credits)

Natural/Biological Sciences and Mathematics

MATH course at the 100-level or higher	3
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BISC 207 Introductory Biology I	4
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NTDT 200 Nutrition Concepts	3
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CHEM 103 General Chemistry	4
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MAJOR REQUIREMENTS (minimum grade C- in each)

BISC 276 Human Physiology	3
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STAT 200 Basic Statistical Practice	3
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HESC 210 Emergency Management of Injuries and Illnesses	3
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HESC 214 Wellness: A Way of Life	3
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HESC 220 Anatomy and Physiology	3
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HESC 240 Introduction to Athletic Training	3
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HESC 257 Athletic Training Practicum I	3
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HESC 258 Advanced Taping and Bracing Methods	1
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HESC 320 Principles of Strength/Conditioning	3
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HESC 350 Basic Concepts in Kinesiology	3
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HESC 357 Athletic Training Practicum II	3
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HESC 358 Athletic Training Practicum III	3
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HESC 395 Sports Medicine Pharmacology	3
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HESC 400 Research Methods	3
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HESC 405 Rehabilitation of Athletic Injuries	3
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HESC 407 Prevention/Recognition/Athletic Injuries	3
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HESC 409 Therapeutic Modalities	4
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HESC 420 Functional Human Anatomy	4
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HESC 425 Biomechanics of Human Movement	4
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HESC 430 Physiology of Activity	3
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HESC 431 Physiology of Activity Lab	1
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HESC 448 Organization & Administration/Athletic Training	3
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HESC 449 Advanced Topics in Sports Medicine	3
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HESC 457 Athletic Training Practicum IV	3
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HESC 458 Athletic Training Practicum V	3
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HESC 459 Athletic Training Practicum VI	3
HESC 480 Upper Extremity and Spine Evaluation	3
HESC 481 Lower Extremity and Spine Evaluation	3

ELECTIVES

After required courses are completed, sufficient elective credits must be taken to meet the minimum credits required for the degree.

CREDITS TO TOTAL A MINIMUM OF 120**ATHLETIC TRAINING:****ADMISSION REQUIREMENTS AND APPLICATION PROCEDURE**

Incoming freshmen and transfer students interested in the athletic training major are admitted to "Athletic Training Interest" program. At the completion of the freshman year, students seeking admission into the athletic training major must have completed the following:

Freshman Year – Athletic Training Curriculum:

General Studies (CHEM 103)	4
HESC 214	3
HESC 220	3
General Studies (PSYC 100)	3
General Studies	3
	16

General Studies (ENGL 110 - Spring Only)	3
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General Studies (MATH course)	3
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General Studies (NTDT 200)	3
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HESC 210	3
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HESC 240 (Spring only)	3
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	15
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Those courses in **BOLD** are used to calculate the *Prerequisite Courses GPA*.

TECHNICAL STANDARDS FOR ADMISSION

The Athletic Training Education Program at the University of Delaware is a rigorous and intense program that places specific requirements and demands on the students enrolled in the program. An objective of this program is to prepare graduates to enter a variety of employment settings and to render care to a wide spectrum of individuals engaged in physical activity. The technical standards set forth by the Athletic Training Education Program establish the essential qualities considered necessary for students admitted to this program to achieve the knowledge, skills and competencies of an entry-level athletic trainer, as well as meet the expectations of the program's accrediting agency (Commission on Accreditation of Allied Health Education Programs – "CAAHEP"). The following abilities and expectations must be met by all students admitted to the Athletic Training Education Program. In the event a student is unable to fulfill these technical standards, with or without reasonable accommodation, the student will not be admitted into the program.

Compliance with the program's technical standards does not guarantee a student's eligibility for the National Athletic Trainers' Association Board of Certification (NATABOC) examination.

Candidates for selection to the Athletic Training Education Program must demonstrate:

1. the mental capacity to assimilate, analyze, synthesize, integrate concepts and problem solve to formulate assessment and therapeutic judgments and to be able to distinguish deviations from the norm;
2. sufficient postural and neuromuscular control, sensory function, and coordination to perform appropriate physical examinations using accepted techniques; and accurately, safely, and efficiently use equipment and materials during the assessment and treatment of patients;
3. the ability to communicate effectively and sensitively with patients and colleagues, including individuals from different cultural and social backgrounds; this includes, but is not limited to, the ability to establish rapport with patients and communicate judgments and treatment information effectively. Students must be able to understand and speak the English language at a level consistent with competent professional practice;
4. the ability to record the physical examination results and a treatment plan clearly and accurately;
5. the capacity to maintain composure and continue to function well during periods of high stress;
6. the perseverance, diligence and commitment to complete the athletic training education program as outlined and sequenced;
7. flexibility and the ability to adjust to changing situations and uncertainty in clinical situations;
8. affective skills and appropriate demeanor and rapport that relate to professional education and quality patient care.

Candidates for selection to the Athletic Training Education Program will be required to verify that they understand and meet these technical standards or that they believe, with certain accommodations, they can meet the standards.

The Director of Affirmative Action and Multicultural Programs will evaluate a student who states he/she could meet the program's technical standards with accommodation and confirm that the stated condition qualifies as a disability under applicable laws.

If a student states he/she can meet the technical standards with accommodation, then the University will determine whether it agrees that the student can meet the technical standards with reasonable accommodation; this includes determination as to whether the accommodations requested are reasonable, taking into account whether accommodation would jeopardize clinician/patient safety, or the educational process of the student or the institution, including all coursework, clinical experiences and internships deemed essential to graduation.

Eight criteria are evaluated as part of the admission process in accepting students into the Athletic Training Education Program:

1. Overall GPA
2. Prerequisite Courses GPA
3. Directed Observation Hours
4. Letters of Recommendation
5. Interview
6. Essay
7. Clinical Evaluations
8. Clinical Competency Evaluation Checklist

In evaluating the criteria, different ranking scales (1-5, 1-10, etc) are used. For each criterion, the student with the highest ranking receives the lowest number awarded. Students are evaluated under the eight criteria in the following manners:

Overall GPA – For purposes of scoring on this criterion, students are first divided into groups, with group size based on the size of the applicant pool. To determine group size, the total number of candidates applying for admission to the program is divided by 10. For example, if 20 students apply, 20 is divided by 10 and the result is 2. In cases where the result falls between whole numbers, (e.g. 2.6), the number is rounded up or down depending on where it falls on the scale. A result of 2.5 is rounded upward, for a score of (3), whereas 2.4 is rounded downward for a score of (2). We then rank the overall GPAs of the applicants from high to low. If group size has been determined to be 2, the student applicants are then placed in groups of 2, with the 2 students with the highest GPAs receiving a score of (1). The students with the next 2 highest GPAs receive a score of (2). We continue scoring the students until everyone receives a score.

Prerequisite Courses GPA – Four classes (HESC 210, HESC 214, HESC 220 and HESC 240) are used to calculate the *Prerequisite Courses GPA*. The candidates' GPAs are ranked from high to low. The student with the highest GPA receives a score of (1); this number is then multiplied by a weighting factor of 2, (1 X 2=2), for a score of 2. We continue scoring the students until everyone receives a score. We weight this criterion more heavily than others because we believe the *Prerequisite Courses GPA* is a very good predictor for success in our program.

Directed Observation Hours – Students are assigned by the Coordinator of the "Athletic Training Interest" program to a variety of clinical venues to gain valuable directed observation hours. Students who obtain between 50-99 directed observation hours receive a score of (4). Students who obtain between 100-149 directed observation hours receive a score of (3). Students who obtain between 150-199 directed observation hours receive a score of (2). Students who obtain over 200 directed observation hours receive a score of (1).

Letters of Recommendation – Students seeking admission into the ATEP will be asked to secure 3 letters of recommendation from individuals who can attest to their personality and clinical abilities. Letters of recommendation are evaluated with scores of (1-5), with 1 being best. Each athletic training faculty member reads and scores each of the 3 letters of recommendation. All letters of recommendation are read independently. The scores from all the evaluators are added together and then divided by the total number of evaluators. The averaged score is then recorded on the admission ranking form.

Interview – Candidates seeking admission to the ATEP are given a formal interview conducted by the athletic training faculty, in May of each year. Each evaluator uses a standardized form, worth 100 points. At the end of the interview process the score for each candidate is totaled and then divided by the number of evaluators to get an average interview score. The student with the best average interview score receives a score of (1), next highest is given a score of (2), and so on, until everyone has a score. This score is then multiplied by a weighting factor of 2 (i.e. 1 X 2 = 2, 2 X 2 = 4, etc.). We weight this criterion more heavily than others because we believe the *Interview* is a very good predictor for success in our program.

Essay – The essay is scored using the same method as was described for Letters of Recommendation.

Clinical Evaluations – Students are required to complete a series of clinical rotations to 4 different sites during the interest phase of the program. At each site, they are formally evaluated by Approved Clinical Instructors ("ACI's"). Clinical performance is critiqued on both "Skills/Abilities" and "Personal Attributes" using a Likert scale (0-5). The overall evaluation score that combines both "Skills/Abilities" and "Personal Attributes" is averaged across all 4 rotations, with higher evaluation scores being better. The evaluation scores for each student are rank ordered from highest to lowest. The *Clinical Evaluations* are then scored using the same procedure described for *Overall GPA*.

Clinical Competency Evaluation Checklist – Students are expected to complete the "Clinical Competency Evaluation Checklist" during the course of the academic year (September - May). A percentage of "ACI check-offs" is calculated by dividing the total number of possible "check-offs," (156), by the number of competencies checked off as having been completed. For example, if a student completes 112 competencies, $112/156 = 71.79\%$. The percentage scores for each student are rank ordered from highest to lowest. The *Clinical Competency Evaluation Checklist* criterion is then scored using the same procedure described for *Overall GPA*.

When all the criteria have been scored, the 8 scores are added together, to make a grand total score. The candidate with the lowest grand total score is ranked as the first candidate who will be offered admission to the ATEP.

Acceptance into the program is based upon the stated criteria and the number of available openings in the program. Meeting the minimum admission requirements does not guarantee acceptance into the program. Offers of admission into the Athletic Training Education Program are presented on a competitive basis to those individuals who are most qualified. Students may apply for admission to the program at the end of the spring semester. Acceptance/rejection letters will be mailed to each candidate by July 1.

Students interested in transferring from another institution or from another major at the University of Delaware must meet University and College of Health and Nursing Sciences transfer requirements and complete the same requirements as freshmen in the "Athletic Training Interest" program.

Students enrolled in the Athletic Training Education Program meet with the Program Director to plan the clinical education experience. Clinical education experiences are initiated in the first year of the student's program and are designed to provide the student with sufficient opportunity to develop specific competencies and proficiencies pertaining to the health care of the athlete and those involved in physical activity. The clinical experience provides the student with an opportunity for integration of psychomotor, cognitive and affective skills within the context of direct patient care. The skills are identified within the psychomotor and clinical proficiencies aspects of each of the domains included in the document, "Athletic Training Educational Competencies." The development of psychomotor skills represents a significant focus of the student's clinical experience; ample opportunity is also provided for development and demonstration of competencies within the cognitive and the affective aspects of each domain identified in the above document.

A minimum period of 3 academic years of clinical experience associated with course credit is required. The clinical setting includes the athletic training rooms, athletic practices, competitive events, sports medicine clinics, high school venues, and research environments for a minimum of 3 academic years under the direct supervision of an Approved Clinical Instructor (ACI) and/or Clinical Instructor (CI). The student is exposed to upper extremity, lower extremity, equipment intensive, and general medical experiences of both genders. An Approved Clinical Instructor (ACI) formally evaluates each athletic training student at the end of each clinical rotation.

Once students are admitted to the program, they are required to maintain the following minimum standards:

1. Complete at least 200 clinical hours per semester;
2. Maintain a GPA of at least 2.0;
3. Achieve satisfactory clinical education evaluations;
4. Meet the technical standards for admission.

Students who do not maintain the above minimum standards are placed on probation and are required to correct all deficiencies by the end of the next semester. Students who do not correct deficiencies are dropped from the curriculum.

NATABOC REQUIREMENTS FOR CERTIFICATION

In order to qualify as a candidate for the BOC certification examination, an individual must meet the following requirements:

- A. Endorsement of the examination application by the CAAHEP Accredited Program Director.
- B. Proof of current certification in CPR. (Note: CPR certification must be current at the time of initial application and any subsequent exam retake registration.)
- C. Students who have begun their last semester of college are permitted to apply and take the certification exam prior to graduation provided all academic and clinical requirements of the CAAHEP Accredited Curriculum have been satisfied or will be satisfied during their last semester of college.

EXERCISE SCIENCE: BIOMECHANICS AND EXERCISE PHYSIOLOGY CONCENTRATIONS

ADMISSION REQUIREMENTS AND APPLICATION PROCEDURE

Incoming freshmen and transfer students interested in the Exercise Science major are admitted to "Exercise Science Interest." After the completion of the freshman year, students may apply for admission to the Exercise Science major and a concentration within the major. A faculty admission committee for each concentration will make decisions on acceptance based on the following criteria:

1. A competitive cumulative GPA. (Students admitted to the major in recent years have had GPAs of at least 3.0.)
2. Successful completion (minimum grade C-) of the following courses: CHEM 103, CHEM 104, BISC 207, BISC 208, and HESC 205.
3. Completion of the appropriate application form for the chosen concentration. Applications are accepted at the end of each Fall and Spring semester.
4. Students interested in Biomechanics also must have successfully completed (minimum grade C-) MATH 241.

DEGREE: BACHELOR OF SCIENCE MAJOR: EXERCISE SCIENCE CONCENTRATION: BIOMECHANICS

CURRICULUM	CREDITS
UNIVERSITY REQUIREMENTS	
ENGL 110 Critical Reading and Writing (minimum grade C-)	3

Multicultural course:

Three credits in an approved course or courses stressing multi-cultural, ethnic, and/or gender-related course content. 3

BREADTH REQUIREMENTS

Humanities and Communication Skills 9

Social Sciences

PSYC 100 General Psychology	3
PSYC 325 Child Psychology	
or	
PSYC 334 Abnormal Psychology	3

Natural/Biological Sciences and Mathematics

CHEM 103 General Chemistry	4
CHEM 104 General Chemistry	4
MATH 241 Analytic Geometry and Calculus A	3
NTDT 200 Nutrition Concepts	3
BISC 207 Introductory Biology I	4
BISC 208 Introductory Biology II	4

MAJOR REQUIREMENTS (minimum grade C- in each)

BISC 276 Human Physiology	4
or	
BISC 306 General Physiology	3
STAT 200 Basic Statistical Practice	3
HESC 205 Freshman Seminar in Exercise Science	1
HESC 310 Pre-Clinical Anatomy and Physiology	4
HESC 375 Neuromechanical Basis of Human Movements	3
HESC 400 Research Methods	3
HESC 426 Biomechanics I	4
HESC 430 Physiology of Activity	3
HESC 431 Physiology of Activity Lab	1

CONCENTRATION REQUIREMENTS (minimum grade C- in each)

CISC 105 General Computer Science	3
HESC 427 Biomechanics II	3
MATH 242 Analytic Geometry and Calculus B	4
MATH 349 Elementary Linear Algebra	3
MEEG 112 Statics	3

MEEG 211 Dynamics	3
PHYS 207 Fundamentals of Physics I	4
PHYS 208 Fundamentals of Physics II	4

ELECTIVES

After required courses are completed, sufficient elective credits must be taken to meet the minimum credits required for the degree.

CREDITS TO TOTAL A MINIMUM OF 120

DEGREE: BACHELOR OF SCIENCE MAJOR: EXERCISE SCIENCE CONCENTRATION: EXERCISE PHYSIOLOGY

CURRICULUM	CREDITS
UNIVERSITY REQUIREMENTS	
ENGL 110 Critical Reading and Writing (minimum grade C-)	3

Multicultural course:

Three credits in an approved course or courses stressing multi-cultural, ethnic, and/or gender-related course content. 3

BREADTH REQUIREMENTS

Humanities and Communication Skills 9

Social Sciences

PSYC 100 General Psychology	3
PSYC 325 Child Psychology	
or	
PSYC 334 Abnormal Psychology	3

Natural/Biological Sciences and Mathematics

CHEM 103 General Chemistry	4
BISC 207 Introductory Biology I	4
NTDT 200 Nutrition Concepts	3
MATH 221 Calculus I	3

Additional Breadth Requirements 9

9 additional credits can be chosen from any Group(s) above

MAJOR REQUIREMENTS (minimum grade C- in each)

BISC 276 Human Physiology	4
or	
BISC 306 General Physiology	3
STAT 200 Basic Statistical Practice	3
HESC 205 Freshman Seminar in Exercise Science	1
HESC 310 Pre-Clinical Anatomy and Physiology	4
HESC 375 Neuromechanical Basis of Human Movements	3
HESC 400 Research Methods	3
HESC 426 Biomechanics I	4
HESC 430 Physiology of Activity	3
HESC 431 Physiology of Activity Lab	1

CONCENTRATION REQUIREMENTS (minimum grade C- in each)

BISC 208 Introductory Biology II	4
CHEM 104 General Chemistry	4
HESC 305 Fundamentals of Athletic Training	3
HESC 353 Seminar in Exercise Physiology	1
HESC 432 Exercise Testing and Prescription	4
or	
HESC 434 Exercise Test Technology	3
PHYS 201 Introductory Physics I	4
PHYS 202 Introductory Physics II	4

ELECTIVES

After required courses are completed, sufficient elective credits must be taken to meet the minimum credits required for the degree.

CREDITS TO TOTAL A MINIMUM OF 120

HEALTH AND PHYSICAL EDUCATION: ADMISSION REQUIREMENTS AND APPLICATION PROCEDURE

Incoming freshmen and transfer students interested in the Health and Physical Education teacher preparation program are admitted to "Health and Physical Education Interest." After the completion of the freshman year, students may apply for admission into the Health and Physical Education major. A faculty admission committee will make decisions on acceptance based on the following criteria:

Successful completion (minimum grade C-) of the following required Freshman year courses:

PSYC 100	3
HESC 276	2
HESC 139	3
HESC 143	1
HESC 214	3
*BISC w/lab	4
Total Credits	16

ENGL 110	3
MATH course	3
HESC 141	1
HESC 140	3
HESC 220	3
HESC 230 Group Facilitation Skills in Health and Physical Education	3
Total Credits	16

*BISC with lab is recommended during the first year in order for students to be able to complete the program in eight semesters, but are not required for admission to the program

Minimum cumulative GPA of 2.5 and major GPA of 2.75.

Submission of a satisfactory Introductory Professional Portfolio that demonstrates a commitment to teaching (See Program Director for details).

Praxis I: Passing scores on the Praxis I test, all three subtests (reading, passing score = 175; writing, passing score = 173; and mathematics, passing score = 174) are required prior to admittance to the health and physical education major.

Completion of the appropriate application form for the major. Applications are accepted at the end of each Fall and Spring semester

REQUIREMENTS FOR PROGRESSION THROUGH THE PROGRAM

Criteria For Admission to the Methods Block (HESC414, 370, and 380)

- Minimum cumulative GPA of 2.50
- Minimum GPA of 2.75 in the major
- A grade of C- or better in all required courses within the major
- Completion of all required HESC courses (with the exception of HESC 425, 430, 431, 465)
- Completion of all required EDUC courses (with the exception of EDUC 420, 430, and 400)
- Submission of a satisfactory Working Portfolio (See Program Director for details)

Criteria for Admission to Student Teaching in Health and Physical Education

- Minimum cumulative GPA of 2.50
- Minimum GPA of 2.75 in the major
- A grade of C- or better in all required courses within the major.
- Completion of all required HESC courses (with the exception of HESC 425, 430, 431, 465)
- Completion of all required EDUC courses (with the exception of EDUC 430 and 400)

Co-requisite for EDUC 400 - Student Teaching

- Proof of having taken an appropriate academic CONTENT area test (e.g., Praxis II in English, Praxis II in Elementary Content Knowledge or Fundamental Subject Area Test) or a state-designated academic content knowledge test (e.g., New York State test in the appropriate area, like the Elementary Multiple Subjects Test or the Social Studies test). A copy of the official score report must be submitted to the Delaware Center for Teacher Education, 200 Academy Street, during enrollment in EDUC 400 Student Teaching or no later than November 1 for January graduates and May 1 for June or summer graduates. An institutional recommendation for certification will not be issued until the candidate has presented the official score report

DEGREE: BACHELOR OF SCIENCE

MAJOR: HEALTH AND PHYSICAL EDUCATION

CURRICULUM CREDITS

UNIVERSITY REQUIREMENTS

ENGL 110 Critical Reading and Writing (minimum grade C-)	3
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Multicultural course:

Three credits in an approved course or courses stressing multi-cultural, ethnic, and/or gender-related course content. 3

BREADTH REQUIREMENTS

Humanities and Communication Skills* 6

*Must include courses from two different departments

Social Sciences

PSYC 100 General Psychology 3

Natural and Biological Sciences and Mathematics 10

Including:

MATH

Biology

NTDT 200

Note: The BISC (Biology) course must include a lab.

Additional Breadth Requirements 3

3 additional credits can be chosen from any area

MAJOR REQUIREMENTS (minimum grade C- in each)

EDUC 400 Student Teaching	9
EDUC 413 Adolescent Development and Educational Psychology	4
EDUC 414 Teaching Exceptional Adolescents	3
EDUC 419 Diversity in Secondary Education (fulfills University multicultural requirement)	3
EDUC 420 Reading in the Content Area	1
EDUC 430 Classroom Management	1

Students must have a minimum cumulative GPA of 2.500, a GPA in the major of at least 2.750, and must apply to student teach at least one semester in advance

HESC 121 Water Safety Instruction	
or	
HESC 122 Lifeguard Training	1-2
HESC 139 Curriculum in Physical Education	3
HESC 140 Fundamental Skills Analysis	3
HESC 141 Adventure Challenge and Outdoor Recreation	1
HESC 143 Skills, Techniques and Knowledge of Stunts, Tumbling and Gymnastics	1
HESC 210 Emergency Management of Injuries and Illnesses	3
HESC 214 Wellness: A Way of Life	3
HESC 220 Anatomy and Physiology	3
HESC 230 Group Facilitation Skills in Health and Physical Education	3
HESC 250 Motor Development	3
HESC 251 Skills, Techniques and Knowledge of Rhythms and Dance	1
HESC 252 Lifetime Leisure Activities	1
HESC 255 Skills, Techniques and Knowledge of Racquet Sports	1
HESC 275 Tactical Approach to Teaching Sports	3
HESC 276 Technology in Health and Physical Education	2
HESC 300 Issues in Physical Activity Studies and Sports	3
HESC 315 Instructional Strategies for Drug Education	3
HESC 319 Health-Related Fitness	3
HESC 324 Measurement and Evaluation	3
HESC 325 Instructional Strategies for Human Sexuality	3
HESC 330 Teaching Community and Mental Health	3
HESC 333 Health Theory and Program Planning	3
HESC 342 Survey in Adaptive Physical Education/Recreation	3
HESC 370 Practicum in Methods of Elementary Physical Education	3
HESC 380 Practicum in Methods of Secondary Physical Education	3
HESC 414 Methods and Materials in Health Education	3
HESC 425 Biomechanics of Human Movement	4
HESC 430 Physiology of Activity	3
HESC 431 Physiology of Activity Lab	1
HESC 465 Teaching Seminar in Health/Physical Education	3

CREDITS TO TOTAL A MINIMUM OF 122

HEALTH BEHAVIOR SCIENCE:

ADMISSION REQUIREMENTS AND APPLICATION PROCEDURE

Incoming freshmen and transfer students interested in the Health Behavior Science major are admitted to "Health Behavior Science Interest." After the completion of the freshman year, students may apply for admission to the Health Behavior Science major and a concentration within the major. A faculty admission committee for each concentration will make decisions on acceptance based on the following criteria:

1. Successful completion of General Studies PSYC and SOCI courses, HESC 155, HESC 160, ENGL 110 and a MATH course
2. A competitive cumulative GPA
3. Submission of a resume
4. Completion of the appropriate application form for the chosen concentration, including an essay. Applications are accepted at the end of each Fall and Spring semester

DEGREE: BACHELOR OF SCIENCE
MAJOR: HEALTH BEHAVIOR SCIENCE
CONCENTRATION: FITNESS MANAGEMENT

CURRICULUM **CREDITS**

UNIVERSITY REQUIREMENTS

ENGL 110 Critical Reading and Writing
 (minimum grade C-) 3

Multicultural course:
 Three credits in an approved course or courses stressing multi-cultural, ethnic,
 and/or gender-related course content 3

BREADTH REQUIREMENTS

Humanities and Communication Skills 9
 Note: Must include courses from two different departments

Social Sciences
 Psychology 3
 Sociology 3

Natural and Biological Sciences and Mathematics 13
 Including:
 MATH
 Biology
 NTD 200 (3)
 Note: The BISC course must include a lab

Additional Breadth Requirements 6
 Chosen from any area above.

MAJOR REQUIREMENTS (minimum grade C- in each)

FREC 201 Records and Accounts 3
 or
 ACCT 200 Survey of Accounting 4
 BUAD 100 Introduction to Business 3
 HESC 155 Personal Health Management An Approach for a Lifetime 3
 HESC 160 Health Behavior Science First Year Seminar 1
 HESC 200 Issues in Health Behavior Management 3
 HESC 210 Emergency Management of Injuries and Illnesses 3
 HESC 326 Research Methods and Statistics for Behavior Science 3
 HESC 332 Health Behavior Theory and Assessment 3
 HESC 335 Health and Aging 3
 HESC 342 Survey in Adaptive Physical Education 3
 HESC 354 Seminar in Fitness Management 1
 HESC 422 Organization and Administration of Leisure Services 3
 HESC 464 Internship 9

CONCENTRATION REQUIREMENTS (minimum grade C- in each)

HESC 220 Anatomy and Physiology 3
 HESC 263 Leadership Practicum 1
 HESC 305 Fundamentals of Athletic Training 3
 HESC 320 Strength and Conditioning 3
 HESC 329 Dynamics of Team Problem Solving 3
 HESC 350 Basic Kinesiology 3
 HESC 430 Physiology of Activity 3
 HESC 431 Physiology of Activity Lab 1
 HESC 432 Exercise Testing and Prescription 4
 HESC 490 Development of Health Promotion Programs 3
 NTD 310 Nutrition and Activity 3

ELECTIVES

After required courses are completed, sufficient elective credits must be taken to
 meet the minimum credits required for the degree.

CREDITS TO TOTAL A MINIMUM OF 120

DEGREE: BACHELOR OF SCIENCE
MAJOR: HEALTH BEHAVIOR SCIENCE
CONCENTRATION: LEISURE SERVICE MANAGEMENT

CURRICULUM **CREDITS**

UNIVERSITY REQUIREMENTS

ENGL 110 Critical Reading and Writing
 (minimum grade C-) 3

Multicultural course:
 Three credits in an approved course or courses stressing multi-cultural, ethnic,
 and/or gender-related course content 3

BREADTH REQUIREMENTS

Humanities and Communication Skills 9
 Note: Must include courses from at least two departments.

Social Sciences
 Psychology 3
 Sociology 3

Natural and Biological Sciences and Mathematics 13
 Including:
 MATH
 Biology
 NTD 200 (3)
 Note: The BISC course must include a lab

Additional Breadth Requirements 6
 Chosen from any of the areas above

MAJOR REQUIREMENTS (minimum grade C- in each)

FREC 201 Records and Accounts 3
 or
 ACCT 200 Survey of Accounting 4
 BUAD 100 Introduction to Business 3
 HESC 155 Personal Health Management: An Approach for a Lifetime 3
 HESC 160 Health behavior Science First Year Seminar 1
 HESC 200 Issues in Health Behavior Management 3
 HESC 210 Emergency Management of Injuries and Illnesses 3
 HESC 326 Research Methods and Statistics for Behavior Science 3
 HESC 332 Health Behavior Theory and Assessment 3
 HESC 335 Health and Aging 3
 HESC 342 Survey in Adaptive Physical Education 3
 HESC 354 Seminar in Fitness Management 1
 HESC 422 Organization and Administration of Leisure Services 3
 HESC 464 Internship 9

CONCENTRATION REQUIREMENTS (minimum grade C- in each)

HESC 207 Foundations of Leisure and Sport Management 3
 HESC 261 Leadership in Leisure and Sport Management 3
 HESC 302 Practicum in Sport Management/Recreation II 1
 HESC 341 Principles of Outdoor Recreation 3
 HESC 347 Legal Aspects of Sport Management 3

Plus, 18 credits reflecting a sub-discipline in recreation/leisure chosen under the
 direction of the faculty advisor and submitted for approval no later than the
 beginning of the second semester of the junior year

ELECTIVES

After required courses are completed, sufficient elective credits must be taken to
 meet the minimum credits required for the degree.

CREDITS TO TOTAL A MINIMUM OF 120

DEGREE: BACHELOR OF SCIENCE
MAJOR: SPORT MANAGEMENT

ADMISSION REQUIREMENTS AND APPLICATION PROCEDURE

Incoming freshmen and transfer students interested in the sport management major
 are admitted to "Sport Management Interest". After completion of the freshman
 year, students may apply for admission to the sport management major. A faculty
 committee will make decisions on acceptance based on the following criteria:

- 1 Successful completion (minimum grade of C-) of a psychology or sociology
 course, HESC 202, HESC 155, ENGL 110 and a math course.
- 2 Minimum GPA of 2.7.
- 3 Completion of the appropriate application form. Applications are accepted
 at the end of each the fall and spring semester
- 4 Demonstration of aptitude and commitment and understanding for career
 orientation.
- 5 Interview with Sport Management faculty.

CURRICULUM **CREDITS**

UNIVERSITY REQUIREMENTS

ENGL 110 Critical Reading and Writing
 (minimum grade C-) 3

Multicultural course:
 Three credits in an approved course or courses stressing multi-cultural, ethnic,
 and/or gender-related course content 3

BREADTH REQUIREMENTS

Humanities and Communication Skills 12
 Note: Must include courses from at least two departments.

Social Sciences	6
Psychology	
Sociology	
Natural and Biological Sciences and Mathematics	9
MATH	
STAT 200	
Natural or Biological Sciences	

Additional Breadth Requirements	9
Chosen from any group above	

MAJOR REQUIREMENTS (minimum grade C- in each)

HESC 155	Personal Health Management	3
HESC 202	Foundations of Sport Management	3
HESC 207	Leadership in Sport Management	3
HESC 261	Administration in Sport Management	3
HESC 302	Practicum I in Sport Management	1
HESC 303	Practicum II in Sport Management	1
HESC 340	Community and Media Relations in Sport	3
HESC 344	Research Methods	3
HESC 347	Legal Aspects of Sport Management	3
HESC 437	Sport Marketing	3
HESC 438	Sport Event and Facility Management	3
HESC 439	Ethics and Issues in Sport Management	3
HESC 464	Internship	9
ACCT 200	Survey of Accounting	4
BUAD 100	Introduction to Business	3
FINC 200	Fundamentals of Finance	3
ECON 100	Economic Issues and Policies	3

MINOR REQUIREMENTS

An approved minor is required for the degree. Suggested minors are:

Legal Studies	18
Leadership	18
Educational Studies	18
Coaching	18
Business Administration	39

ELECTIVES

After required courses are completed, sufficient elective credits must be taken to meet the minimum credits required for the degree.

CREDITS TO TOTAL A MINIMUM OF 120

DEGREE: BACHELOR OF SCIENCE

MAJOR: APPLIED NUTRITION

CURRICULUM	CREDITS
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UNIVERSITY REQUIREMENTS

ENGL 110	Critical Reading and Writing (minimum grade C-)	3
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Three credits in an approved course or courses stressing multi-cultural, ethnic, and/or gender-related course content (see p. 62-65)

MAJOR REQUIREMENTS

Humanities electives		6
CHEM 101/102	General Chemistry	
or		
CHEM 103/104	General Chemistry	8
CHEM 213	Elementary Organic Chemistry	4
CHEM 214/216	Elementary Biochemistry with Lab	4
BISC 104	Principles of Biology	
or		
BISC 207/208	Introductory Biology I and II	4-8
BISC 106	Elementary Human Physiology	3
or		
BISC 276	Human Physiology	4
Students desiring to fulfill a Biology minor should take BISC 207, 208 and 276		
ECON 100	Economic Issues and Policies	
or		
ECON 151	Introduction to Microeconomics: Prices and Markets	3
PSYC 100	General Psychology	3
Sociology course		3
BUAD 309	Management and Organizational Behavior	3
FOSC 305	Food Science (minimum grade of C-)	3
MATH 114	Elementary Mathematics and Statistics	3
or		
Successful performance on the Proficiency Test in Mathematics administered by Department of Mathematical Sciences		

A minimum grade of C- must be achieved for credits to count toward the fulfillment of 28 credits in NTDT; a minimum grade of C- in 200-level courses must be achieved to proceed to upper-level courses; only 300-level courses and a maximum of four credits of Special Problems/Independent Study (NTDT x66) may count toward the fulfillment of this requirement.

NTDT 103	Introduction to Nutrition Professions	1
NTDT 200	Nutrition Concepts	3
NTDT 201	Food Concepts	3
NTDT 400	Macronutrients	3
NTDT 401	Micronutrients	3
NTDT 445	Teaching Methods: Nutrition and Food	3
NTDT courses (300-level or higher)		9
NTDT Restricted Elective (minimum grade of C- must be achieved)		3

One of the following

NTDT 305	Nutrition in the LifeSpan	3
NTDT 350	Nutrition and Older Adults	
NTDT 420	Maternal and Infant Nutrition	

ELECTIVES

After required courses are completed, sufficient elective credits must be taken to meet the minimum credits required for the degree.

May include Military Science, Music, or HESC 120 lifetime activity courses. (Only two credits of HESC 120, four credits of Music, and four credits of 100- and 200-level courses in Military Science/Air Force may be counted toward the degree.)

CREDITS TO TOTAL A MINIMUM OF 120

DEGREE: BACHELOR OF SCIENCE

MAJOR: DIETETICS

CURRICULUM	CREDITS
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UNIVERSITY REQUIREMENTS

ENGL 110	Critical Reading and Writing (minimum grade C-)	3
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Three credits in an approved course or courses stressing multi-cultural, ethnic, and/or gender-related course content (see p. 62-65)

MAJOR REQUIREMENTS

Humanities electives		6
CHEM 101/102	General Chemistry	
or		
CHEM 103/104	General Chemistry	8
CHEM 213	Elementary Organic Chemistry	4
CHEM 214/216	Elementary Biochemistry with Lab	4
BISC 207/208	Introductory Biology I and II	8
BISC 276	Human Physiology	4
BISC 300	Introduction to Microbiology	4
ECON 100	Economic Issues and Policies	
or		
ECON 151	Introduction to Microeconomics: Prices and Markets	3
PSYC 100	General Psychology	3
SOCI 201	Introduction to Society	3
BUAD 309	Management and Organizational Behavior	3
FOSC 305	Food Science (minimum grade C-)	3
Statistics course selected from: STAT 200, PSYC 209, FREC 408		3
MATH 114	Elementary Mathematics and Statistics	3
or		
Successful performance on the Proficiency Test in Mathematics administered by Department of Mathematical Sciences		

A minimum grade of C- must be achieved for credits to count toward the fulfillment of 47 credits in NTDT; a minimum grade of C- in 200-level courses must be achieved to proceed to upper-level courses; only 300-level courses and a maximum of four credits of Special Problems/Independent Study (NTDT x66) may count toward the fulfillment of this requirement.

NTDT 103	Introduction to Nutrition Professions	1
NTDT 200	Nutrition Concepts	3
NTDT 201	Food Concepts	3
NTDT 250	Introduction to the Nutrition Care Process	3
NTDT 321	Quantity Food Production and Service	3
NTDT 322	Management of Food and Nutrition Services	3
NTDT 326	Onsite Food Products	3
NTDT 330	Nutritional Counseling	3
NTDT 400	Macronutrients	3
NTDT 401	Micronutrients	3

NTDT 403	Dietetics Seminar	1
NTDT 421	Nutrition Assessment Methods	3
NTDT 445	Teaching Methods: Nutrition and Foods	3
NTDT 450	Medical Nutrition Therapy I	3
NTDT 451	Medical Nutrition Therapy II	3
NTDT 460	Community Nutrition	3
NTDT	Restricted Elective (minimum grade of C- must be achieved)	3

One of the following		3
NTDT 305	Nutrition in the LifeSpan	
NTDT 350	Nutrition and Older Adults	
NTDT 420	Maternal and Infant Nutrition	

ELECTIVES

After required courses are completed, sufficient elective credits must be taken to meet the minimum credits required for the degree

May include Military Science, Music, or HESC 120 lifetime activity courses. (Only two credits of HESC 120, four credits of Music, and four credits of 100- and 200-level courses in Military Science/Air Force may be counted toward the degree.)

CREDITS TO TOTAL A MINIMUM OF 120
DEGREE: BACHELOR OF SCIENCE
MAJOR: NUTRITIONAL SCIENCES

CURRICULUM	CREDITS
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UNIVERSITY REQUIREMENTS

ENGL 110	Critical Reading and Writing (minimum grade C-)	3
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Three credits in an approved course or courses stressing multi-cultural, ethnic, and/or gender-related course content (see p. 62-65)	3
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MAJOR REQUIREMENTS

MAJOR REQUIREMENTS		
<i>Humanities electives</i>		6
CHEM 103/104	General Chemistry	8
CHEM 214/216	Elementary Biochemistry with Lab	4
CHEM 220/221	Quantitative Analysis I with Lab	4
CHEM 321/322	Organic Chemistry	8
BISC 207/208	Introductory Biology I and II	8
BISC 276	Human Physiology	4
BISC 300	Introduction to Microbiology	4
PHYS 201	Introductory Physics I	4
ECON 100	Economic Issues and Policies	
or		
ECON 151	Introduction to Microeconomics: Prices and Markets	3
<i>Social Science electives</i>		9
FOSC 305	Food Science (minimum grade C-)	3
FREC 408	Research Methods	3
MATH 221/222	Calculus I and II	
or		
MATH 241/242	Analytic Geometry and Calculus A and B	6-8

A minimum grade of C- must be achieved for credits to count toward the fulfillment of 30 credits in NTDT; a minimum grade of C- in 200-level courses must be achieved to proceed to upper-level courses; only 300-level courses and a maximum of four credits of Special Problems/Independent Study (NTDT x66) may count toward the fulfillment of this requirement.

NTDT 103	Introduction to Nutrition Professions	1
NTDT 200	Nutrition Concepts	3
NTDT 201	Food Concepts	3
NTDT 400	Macronutrients	3
NTDT 401	Micronutrients	3
NTDT 421	Nutrition Assessment Methods	3
NTDT courses (300-level or higher)		6
NTDT course		3

ELECTIVES

After required courses are completed, sufficient elective credits must be taken to meet the minimum credits required for the degree

May include Military Science, Music, or HESC 120 lifetime activity courses. (Only two credits of HESC 120, four credits of Music, and four credits of 100- and 200-level courses in Military Science/Air Force may be counted toward the degree.)

CREDITS TO TOTAL A MINIMUM OF 120**OPTIONAL CONCENTRATIONS**

The following optional concentrations are available to students in the **Applied Nutrition, Dietetics, and Nutritional Science** majors:

HEALTH AND EXERCISE 17 credits

(Minimum grade of C- in each)

HESC 220	Anatomy and Physiology	3
HESC 320	Principles of Strength and Conditioning	3
HESC 430	Physiology of Activity	3
HESC 431	Physiology of Activity Lab	1
HESC 432	Basic Exercise Prescription	4
NTDT 310	Nutrition and Activity	3

GERONTOLOGY 18 credits

(Minimum grade of C- in each)

HESC 335	Health and Aging	3
HESC 342	Survey in Adaptive Physical Education and Recreation	3
HESC 490	Development of Health Promotion Programs	3
IFST 405	Aging and the Family	3
NTDT 350	Nutrition and Older Adults	3
NTDT 460	Community Nutrition	3

PEDIATRICS 18 credits

(Minimum grade of C- in each)

IFST 201	Life Span Development	3
IFST 221	Child Development	3
IFST 329	Adolescent Development	3
NTDT 420	Maternal and Infant Nutrition	3
Plus two of the following:		
IFST 202	Foundations of Family Studies	3
IFST 270	Families and Development Disabilities	3
IFST 410	The Hospitalized Child	3
IFST 470	Families and Children at Risk	3

WEIGHT MANAGEMENT 16 credits

(Minimum grade of C- in each)

HESC 332	Health Behavior Theory and Assessment	3
HESC 430	Physiology of Activity	3
HESC 432	Basic Exercise Prescription	4
NTDT 330	Nutrition Counseling	3
NTDT 410	Overweight/Obesity Prevention and Management	3

The following optional concentration is available to students in the **Applied Nutrition, and Nutritional Science** majors:

FOODSERVICE MANAGEMENT 20 credits

(Minimum grade of C- in each)

ACCT 200	Survey of Accounting	4
BISC 300	Introduction to Microbiology	4
HRIM 381	Management of Food and Beverage Operations	3
NTDT 321	Quantity Food Production and Service	3
NTDT 322	Management of Food and Nutrition Services	3
NTDT 326	Onsite Food Production	3

MINOR IN COACHING SCIENCE

This minor is designed to help students develop an understanding of the instructional, psychological, and management aspects of coaching, as well as a personal philosophy of coaching. Successful completion of the minor prepares students to take the American Sport Education Program (ASEP) Coaching Certification examination.

Students applying for the minor are expected to have had previous athletic experience and must have completed at least one semester of full time study with a minimum GPA of 2.25. The application process involves an interview with the faculty director of the minor. A grade of C- or better in required courses is needed for successful completion of the minor.

CURRICULUM		CREDITS
HESC 210	Emergency Management of Injuries and Illnesses	3
HESC 220	Anatomy and Physiology	3
HESC 320	Principles of Strength and Conditioning	3
HESC 390	Principles of Coaching	3
HESC 440	Strategies for Athletic Peak Performance	3
HESC 460	Coaching/Performance Practicum	3
HESC 460	Coaching/Performance Practicum	3

MINOR IN FIGURE SKATING COACHING

This minor is for students who are highly proficient at figure skating and have an interest in becoming a figure skating instructor or coach. Admission to the minor requires a minimum GPA of 2.0 based on at least 12 credits of coursework and permission of the program director. Applications are accepted at the end of each fall and spring semester. A minimum grade of C- is required for all courses in the minor.

CURRICULUM	CREDITS
HESC 207 Introduction to Recreation and Sport Management	3
HESC 220 Anatomy and Physiology	3
HESC 320 Principles of Strength and Conditioning	3
HESC 355 Figure Skating Practicum I	3
HESC 356 Figure Skating Practicum II	3
HESC 440 Strategies for Athletic Peak Performance	3
HESC 455 Figure Skating Practicum III	3
HESC 456 Figure Skating Practicum IV	3

Proof of First Aid certification by either the American Red Cross or the American Heart Association is also required.

MINOR IN NUTRITION

A minor in nutrition requires NTD 200, NTD 400, NTD 401 plus 6 credits in Nutrition and Dietetics at the 300-level or higher. A 2.0 GPA is required for admission; a minimum grade of C- is required in all courses in the minor. Note that CHEM 214 and CHEM 216 are necessary prerequisites for NTD 400 and NTD 401.

MINOR IN STRENGTH AND CONDITIONING

This minor is designed to provide students with in depth understanding of the theory and practical considerations associated with physical training to enhance strength and conditioning. Students successfully completing the minor will be prepared to take the Strength and Conditioning Specialist Certification examination offered by the National Strength and Conditioning Association.

Students applying for the minor must have completed at least one semester of full time study with a minimum GPA of 2.25. Enrollment in the minor for at least four semesters is necessary due to sequencing of courses. A grade of C- or better in required courses is needed for successful completion of the minor.

CURRICULUM	CREDITS
Prerequisite Courses:	
The following courses are identified as prerequisites for selected courses in the minor. It is not necessary to take all of the prerequisite courses prior to enrolling in the first course in the minor. See course descriptions for the required courses to identify individual course prerequisites.	
HESC 220 Anatomy and Physiology	3
HESC 350 Basic Concepts in Kinesiology	3
HESC 425 Biomechanics of Human Movement	3
or	
HESC 426 Biomechanics I	4
HESC 430 Physiology of Activity	3
HESC 431 Physiology of Activity Laboratory	1
NTDT 200 Nutrition Concepts	3

Required Courses:	
HESC 320 Principles of Strength/Conditioning	3
HESC 432 Exercise Testing and Prescription	4
HESC 440 Strategies for Athletic Peak Performance	3
HESC 447 Advanced Topics in Strength and Conditioning	3
HESC 462 Practicum in Strength and Conditioning	3
NTDT 310 Nutrition and Activity	3

HEALTH STUDIES

Telephone: (302) 831-8371

This major provides a broad-based degree for students interested in a health-related career in any number of settings within the health services arena. Foundation courses from the sciences, humanities, and social sciences are combined with courses from departments in the College of Health Sciences. Students in the Health Studies major

can select a concentration area or an existing University minor outside the college in order to meet individual personal and career objectives and interests.

DEGREE: BACHELOR OF SCIENCE
MAJOR: HEALTH STUDIES

CURRICULUM	CREDITS
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UNIVERSITY REQUIREMENTS

ENGL 110 Critical Reading and Writing (minimum grade C-)	3
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Three credits in an approved course or courses stressing multi-cultural, ethnic, and/or gender-related course content (see p. 62-65)

BREADTH REQUIREMENTS

Creative Arts and Humanities 6
Includes all Arts and Sciences Group A courses as well as art courses and foreign language courses not used in the Communication/Foreign Language requirement

Social Sciences (4 of the following 6 choices) 12
PSYC100, ECON100 or ECON151, SOCI201, IFST201, BUAD309, Social Science/History Elective (as listed for Arts & Sciences Group B or C)

Sciences 11
(3 of the following 4 choices; must include a biology course with lab)
BISC104 or 207, CHEM101 or CHEM103 or CHEM105, 100-level or higher MATH, BISC208, and other natural science courses.

MAJOR REQUIREMENTS (minimum grade C- in each)

Second Writing Course 3
An approved course taken after completion of 45 credit hours (listed as "Section satisfies A&S writing requirement" in the registration booklet).

Communication or Foreign Language Course	3
Statistics Course at the 200 level or above	3
CSCC/PHIL 241 Ethical Issues in Healthcare	3
BISC 276 Human Physiology	4
CNST 404 (prerequisite required CNST 100) or HESC 422	3

MEDT 100 Introduction to Medical Technology	
or	
NURS 100 New Student Connections	1

NURS 101 Anatomy	2
or	
HESC 220 Anatomy and Physiology	3

HESC 155 Personal Health Management	3
or	
HESC 214 Wellness: A Way of Life	3

NTDT 200 Nutrition Concepts	3
HESC 210 Emergency Management of Injuries and Illnesses	3

MEDT 210 Information Technologies and Communication Skills	2
or	
HESC 276 Technology in Health and Physical Education	2

NTDT 305 Nutrition in the Lifespan	3
HESC 400 Research Methods	3
MEDT 375 Clinical Laboratory Principles and Statistics	2
NURS 411 Topics in Health Care Delivery	3

And, one course from each group:	
HESC 200 Issues in Health Behavior Management	3
HESC 300 Issues in Physical Activity Studies	3
HESC 329 Dynamics of Team Problem Solving	3

NTDT 255 Multicultural Food Habits	3
NTDT 310 Nutrition and Activity	3
NTDT 350 Nutrition and Older Adults	3

Additional HESC, MEDT, NTD, or NURS (3 credits must be at the 400 level) 15

HLTH 495 Health Studies Practicum: Capstone Course: Student will be required to complete a Service Learning Experience	6
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CONCENTRATION AREA (minimum grade C- in each course.
Courses cannot be used as part of the major or breadth requirements)

Minor outside College of Health and Nursing Sciences MINIMUM 15
or
Concentration MINIMUM 15
(No more than 9 credits at the 100 and 200 level and 3 credits at the 400 level)

Family and Personal Health: (COMM200, FOSC102, HESC335, IFST329,
IFST339, IFST401, IFST410, NTD310, NTD350, NTD452, PSYC325,
PSYC334, SOCI418)

Health Ethics and Decision-Making: (CNST332, CSCC/HIST382,
ECON390, HESC200 or HESC300 (only one can satisfy requirements),
HESC329, NTD255, NTD452, PHIL/BAMS/WOMS327, PHIL/CSCC444,
POSC/SOCI/CSCC343, SOCI/CSCC311, WOMS/CSCC389, IFST405)

Science-Based Health Information: (BISC105, BISC110, BISC152,
BISC171/300, CHEM102 or CHEM104 or CHEM106, CHEM213, CHEM214 &
216, HESC220, HESC350, HESC425 or HESC426, HESC430 & HESC431,
NTD201, PHYS201, PHYS202, PSYC314)

ELECTIVES

After required courses are completed, sufficient elective credit must be taken to
meet the minimum credits required for the degree.

CREDITS TO TOTAL A MINIMUM OF 120

MEDICAL TECHNOLOGY

Telephone: (302) 831-2849
www.udel.edu/medtech

The Department of Medical Technology offers a major in Medical Technology, as well as an Honors Degree and Honors courses. Medical Technology (Biomedical Sciences) is clinical laboratory science related to the prevention, diagnosis and therapy of disease. The Medical Technology major is accredited by the National Accrediting Agency for Clinical Laboratory Sciences (8410 West Bryn Mawr Ave., Suite 670, Chicago, IL 60631-3415; telephone 773-714-8880). The four-year B.S. degree curriculum offers an undergraduate professional education designed to prepare students for career entry positions in hospital clinical laboratories and industry as well as graduate study in medical technology and related areas.

During the first two years at the University, students interested in medical technology should take courses in the basic sciences and liberal arts, including prerequisite courses in biology and chemistry. The professional and clinical courses in the third and fourth years include a final period of supervised clinical education in the Christiana Care Health Services and other affiliated institutions. One required Winter Session is included in the B.S. curriculum.

During the clinical rotation period (fall of junior year and winter and spring terms of the senior year), students should plan for the possibility of 1) added expense for transportation and uniforms and 2) added expense for living off-campus at the clinical site for at least a five-week rotation during the senior year when the commuting distance is excessive.

For exceptionally talented and highly motivated students, several special academic opportunities are available. Students may pursue the Honors Degree with Distinction, the Honors Degree, the Degree with Distinction, or undergraduate research through independent study.

Freshmen or transfer students may be admitted to the University with a declared interest in medical technology. Students will be evaluated for admission to the Medical Technology major after completion of the prerequisite courses. Priority will be given to full-time University sophomores.

Class size is limited to 26 medical technology majors, and any interested student should talk with the Department Chair as early as possible.

Eligibility for admission to the junior year of the Medical Technology major will be based on the following criteria:

1. Minimal GPA of 2.0 in first four semesters of coursework.
2. Minimal grade point index of 2.0 computed from specified courses in biological sciences and chemistry, including laboratories: BISC 207, 208, 276, 300, and CHEM 103, 104, 213, and 214-216.
3. Completion of at least 60 credits, including the courses listed above.
4. Within the pool of eligible students, admission to the major courses will be determined by academic achievement. All applicants will be evaluated by the Medical Technology Undergraduate Program Committee.

The following course sequence is recommended. These courses may be subject to change, so it is essential that students meet regularly with their faculty advisors. Courses taken pass/fail cannot be used to complete major requirements. Pass/fail courses are for free electives only. A minimal grade of C- is required in each MEDT course in the Medical Technology major. In order to meet degree requirements, medical technology majors must have a minimum cumulative GPA of 2.0 to progress in the medical technology sequence. A student who earns a grade lower than C- in a medical technology course must repeat the course and achieve a grade of at least C- before enrolling in any medical technology course which has the prior course as a prerequisite. Students are not permitted to repeat any medical technology course more than once. Further, students who earn a grade lower than C- in more than one medical technology course will not be permitted to continue in the major.

DEGREE: BACHELOR OF SCIENCE MAJOR: MEDICAL TECHNOLOGY

CURRICULUM CREDITS

UNIVERSITY REQUIREMENTS

ENGL 110 Critical Reading and Writing
(minimum grade C-) 3

Three credits in an approved course or courses stressing multi-cultural, ethnic,
and/or gender-related course content (see p. 62-65) 3

MAJOR REQUIREMENTS

Writing: (minimum grade C-) 3

A second writing course involving significant writing experience including two
papers with a combined minimum of 3,000 words to be submitted for extended
faculty critique of both composition and content. This course must be taken after
completion of 45 credit hours. Appropriate writing courses are normally
designated in the semester's Registration Booklet. (See list of courses approved for
second writing requirement, page 91-93.)

One of the following 3-4

MATH 114 College Mathematics and Statistics
(for students who do not intend to continue
the study of mathematics)

MATH 115 Pre-Calculus

MATH 117 Pre-Calculus for Scientists and Engineers
(for students who intend to continue
the study of mathematics)

MATH 221 Calculus I

MATH 241 Analytic Geometry and Calculus A

Successful performance on the college proficiency exam (0 credits awarded).

BREADTH REQUIREMENTS

(follow College of Arts and Sciences standards, See page 93-98)

Group A: Understanding and appreciation of the creative arts
and humanities 6

Group B: The study of culture and institutions over time 6

Group C: Empirically based study of human beings and their environment . . . 6

Three credit Pathways Course may be substituted for one Breadth Requirement.

(minimum grade of C- required in all MEDT courses)

MEDT 100	Introduction to Medical Technology	1
MEDT 210	Information Technologies and Communication Skills	2
MEDT 370	Phlebotomy Practicum	1
MEDT 375	Clinical Laboratory Principles and Statistics	2
MEDT 380	Clinical Immunology and Medical Virology	4
MEDT 390	Introduction to Molecular Diagnostics	2
MEDT 391	Introduction to Molecular Diagnostics Laboratory	1
MEDT 400	Urinalysis and Body Fluids	2
MEDT 401	Clinical Physiological Chemistry I	3
MEDT 411	Clinical Physiological Chemistry I Laboratory	2
MEDT 404	Hematology I	2
MEDT 414	Hematology I Laboratory	1
MEDT 406	Medical Microbiology	3
MEDT 416	Medical Microbiology Laboratory	2
MEDT 403	Clinical Physiological Chemistry II	4
MEDT 413	Clinical Physiological Chemistry II Laboratory	2
MEDT 418	Medical Technology Senior Seminar	0
MEDT 405	Hematology II	2
MEDT 415	Hematology II Laboratory	2
MEDT 409	Immunohematology	1
MEDT 419	Immunohematology Laboratory	1
MEDT 420	Immunohematology II	1
MEDT 421	Immunohematology II Laboratory	1
MEDT 430	Diagnostic Bacteriology and Medical Mycology	2
MEDT 431	Diagnostic Bacteriology and Medical Mycology Laboratory	2
MEDT 461	Laboratory Practice and Leadership I	1
MEDT 471	Laboratory Practice and Leadership II	1
MEDT 472	Clinical Urinalysis Practicum	1
MEDT 473	Clinical Chemistry Practicum	3
MEDT 475	Clinical Hematology Practicum	3
MEDT 477	Clinical Microbiology Practicum	3
MEDT 479	Clinical Immunohematology Practicum	3
BISC 207/208	Introductory Biology I and II	8
BISC 276	Human Physiology	4
BISC 300	Introduction to Microbiology	4
CHEM 103/104	General Chemistry	8
CHEM 213	Elementary Organic Chemistry	
and		
CHEM 214/216	Elementary Biochemistry with Lab	
or		
CHEM 321/322	Organic Chemistry	8

CREDITS TO TOTAL A MINIMUM OF 123

HONORS BACHELOR OF SCIENCE: MEDICAL TECHNOLOGY

The recipient must complete:

1. All requirements for the Bachelor of Science degree in Medical Technology.
2. All the University's generic requirements for the Honors Baccalaureate degree (see page 45).

NURSING

Telephone: (302) 831-2193
www.udel.edu/nursing
e-mail: ud-nursing@udel.edu

The School of Nursing offers a traditional baccalaureate degree program in nursing and an accelerated degree program for those who already hold a baccalaureate degree in another field. There is also a baccalaureate degree program (BRN) for registered nurses with associate degrees or diplomas. Returning nurses may complete the majority of their course work at home or in the worksite in a distance-learning format.

In addition, the School offers a master's program in nursing, with concentrations in Family Nurse Practitioner, Adult Nurse Practitioner, Neonatal Nurse Practitioner, Health Services Administration, and Clinical Nurse Specialist.

TRADITIONAL BACHELOR OF SCIENCE IN NURSING PROGRAM

The traditional Bachelor of Science in Nursing program is designed to develop the knowledge, understanding and skills

essential for the practice of professional nursing and to provide the basis for graduate education. The program is fully accredited by the National League for Nursing Accrediting Commission and has preliminary accreditation from the Commission for Collegiate Nursing Education. Information on program requirements is available from the League at 350 Hudson St., New York, NY 10014, telephone 1-800-669-1656. The first year of the program includes foundation courses in the natural, social, and behavioral sciences, and liberal arts. Each subsequent year increases the nursing content and coursework and culminates in a senior year of clinical residency in direct care clinical agencies. Clinical resources of the Department include healthcare agencies in Delaware, Maryland, Pennsylvania, and New Jersey.

During clinical rotations, students are exposed to many different experiences in a variety of healthcare settings. These include the major hospitals in New Castle County as well as regional community hospitals, a variety of extended care facilities, independent living facilities, and various community-based providers who offer a range of services across the life span. Students graduate as nurse generalists with experiences in pediatric, maternity, psychiatric, medical-surgical, and community health nursing.

Nursing students are encouraged to participate in the university chapter of the National Student Nurses' Association and the Black Student Nurses' Organization. Students who have earned recognition for superior academic achievement may be invited for membership in Beta Xi Chapter of Sigma Theta Tau, the International Honor Society of Nursing. Qualified students may participate in the University's Honors, undergraduate research, and the Degree with Distinction programs. Research opportunities are available to all undergraduates.

ACCELERATED NURSING DEGREE PROGRAM

The Accelerated Degree Program is a course of study leading to a Bachelor of Science in Nursing and is designed for individuals who have a previously earned degree in another field and would like to pursue a career in nursing. Students in this program must complete all of the non-nursing requirements by transfer credit from their first degree, completion of coursework at the University of Delaware or by transfer of pre-approved equivalent courses from other accredited institutions. The program begins in the fall with two courses which are offered in a web-enhanced format. Students will be required to come to campus for course examinations. If a student is unable to relocate until beginning full time study in January, special testing arrangements may be made on an individual basis. In January, students begin their full time studies with a five week winter session. Coursework continues in the spring semester, followed by a ten week summer session, the fall semester, and concludes with the following January winter session. All pre-requisite science courses must be completed successfully prior to the first fall nursing course.

Students taking courses in an accelerated mode are sometimes out of sequence with on-campus course offerings. In these instances, lecture will be provided via videotape or web, and augmented by group discussion sessions.

Eligibility for this course of study includes the following:

1. An earned baccalaureate degree.
2. GPA of 3.25 or greater
3. Completion of all non-nursing courses prior to second term of the program.

For more information or to make an appointment to discuss the accelerated program, please contact the School at 302-831-1253. A sample curriculum plan may be viewed at the Accelerated Degree Program website (www.udel.edu/nursing/accelerated.html). Students who may need financial assistance in pursuing a second degree should contact the Financial Aid Office at 302-831-1534. Reference books on private financial aid sources are available in libraries or local academic institutions in your community.

POLICIES

In order to meet degree requirements, nursing majors must have a minimum cumulative GPA of 2.0 to progress in the nursing sequence. A student who earns a grade lower than C- in a nursing course must repeat the course and achieve a grade of at least C- before enrolling in a more advanced nursing course.

Students are not permitted to repeat any nursing course more than once. Students who earn a grade lower than C- in more than one nursing course will not be permitted to continue in the program. Students should meet regularly with their advisor to ensure that all requirements are being met.

Students are required to meet all immunization, safety, criminal background checks, drug screenings, and CPR requirements prior to clinical coursework and direct patient care. Additional requirements for the clinical education may be required by the healthcare agency to which a student is assigned. Students are expected to provide their own transportation to all required clinical experiences.

LICENSURE

Graduates are eligible for registered nurse licensure in any state upon satisfactory completion of the National Council Licensure Examination for Registered Nurses (N-CLEX-RN). If the examination is passed and licensure granted in one state, application may be made to other states for licensure by endorsement.

HONORS DEGREE IN THE DEPARTMENT OF NURSING

Students can earn an Honors Bachelor of Science Degree in Nursing by completing the following requirements:

1. All requirements for the Bachelor of Science in Nursing Degree
2. All the University's generic requirements for the Honors Baccalaureate Degree (see page 45)

Courses at the 600 level or higher may be taken for honors credits (with permission from the course instructor and academic advisor).

DEGREE: BACHELOR OF SCIENCE IN NURSING (Traditional Program)

MAJOR: NURSING

CURRICULUM CREDITS

UNIVERSITY REQUIREMENTS

ENGL 110	Critical Reading and Writing (minimum grade C-)	3
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Three credits in an approved course or courses stressing multi-cultural, ethnic, and/or gender-related course content (see p. 62-65)
This course also can be used in the breadth requirements.

BREADTH REQUIREMENTS

(see College of Arts and Sciences standards, p. 93-98)

Group A: Understanding and appreciation of the creative arts
and humanities 3
(Foreign language requirement may be substituted for a Group A requirement)

Group B: The study of culture and institutions over time 3

Group C: Empirically based study of human beings and their environment 3

MAJOR REQUIREMENTS

BISC 207	Introductory Biology	4
BISC 276	Human Physiology (minimum grade C-)	4
BISC 300	Introduction to Microbiology	4
CHEM 105	General Chemistry	4
CHEM 106	Elementary Bioorganic Chemistry	5
NTDT 200	Nutrition Concepts	3
STAT 200	Basic Statistical Practice	3
PSYC 100	General Psychology	3
IFST 201	Life Span Development	3
NURS 100	New Student Connections	1
NURS 101	Basic Human Anatomy	2
NURS 110	Nursing Connections	1
NURS 200	Clinical Decision Making	2
NURS 222	Pharmacology	3
NURS 231	Health Promotion Across the Lifespan	2

NURS 232	Care of Vulnerable Populations	2
NURS 241	Scientific Basis of Nursing	3
NURS 242	Scientific Basis of Nursing	3
NURS 250	Health Assessment Across the Lifespan	2
NURS 352	Adult Health Nursing	3
NURS 354	Psychosocial Nursing	3
NURS 356	Care of Children and Families	3
NURS 358	Women's Health Nursing	3
NURS 362	Research Concepts in Health Care	3
NURS 372	Adult Health Nursing	3
NURS 382	Communities and Health Policy	2
NURS 390	Clinical Work Experiences	1-2
NURS 411	Topics in Health Care Delivery	3
NURS 411	Topics in Health Care Delivery*	3
NURS 453	Clinical Applications: Adult Health Nursing I	3
NURS 457	Clinical Applications: Maternal Child Nursing	3
NURS 459	Clinical Application: Psychosocial Nursing	3
NURS 460	Clinical Integration Seminar I	2
NURS 473	Clinical Applications: Adult Health Nursing II	3
NURS 477	Clinical Applications: Care of Populations	3
NURS 479	Clinical Preceptorship	3
NURS 480	Clinical Integration Seminar II	2

*Each student is required to take 6 credits of NURS 411

ELECTIVES

After required courses are completed, sufficient elective credits must be taken to meet the minimum credits required for the degree.

CREDITS TO TOTAL A MINIMUM OF 122

Many nursing courses are offered once each academic year. Students must complete selected required lower division courses before enrolling in upper division nursing courses. Nursing courses must be taken in sequence unless otherwise specified.

DEGREE: BACHELOR OF SCIENCE IN NURSING (Accelerated Degree Program)

MAJOR: NURSING

CURRICULUM CREDITS

UNIVERSITY REQUIREMENTS

ENGL 110	Critical Reading and Writing (minimum grade C-)	3
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Three credits in an approved course or courses stressing multi-cultural, ethnic, and/or gender-related course content (see p. 62-65)
This course also can be used in the breadth requirements.

BREADTH REQUIREMENTS

(see College of Arts and Sciences standards, p. 93-98)

Group A: Understanding and appreciation of the creative arts
and humanities 3
(Foreign language requirement may be substituted for a Group A requirement)

Group B: The study of culture and institutions over time 3

Group C: Empirically based study of human beings and their environment 3

SUPPORT COURSES

(To be completed through course work or transfer of credit before beginning the first Winter Session)

BISC 207	Introductory Biology I	4
NURS 101	Basic Human Anatomy	2
BISC 276	Human Physiology (minimum grade C-)	4
BISC 300	Introduction to Microbiology	4
CHEM 105	General Chemistry	4
CHEM 106	Elementary Bioorganic Chemistry	5
IFST 201	Life Span Development	3
NTDT 200	Nutrition Concepts	3
PSYC 100	General Psychology	3
STAT 200	Basic Statistical Practice	3

NURSING COURSES (66 credits)

NURS 220	Concepts of Nursing Practice	3
NURS 222	Pharmacology	3
NURS 230	Foundations of Nursing	2
NURS 250	Health Assessment Across the Lifespan	2
NURS 312	Pathophysiology	4
NURS 352	Adult Health Nursing	3
NURS 354	Psychosocial Nursing	3
NURS 356	Care of Children and Families	3

NURS 358	Women's Health Nursing	3
NURS 362	Research Concepts in Health Care	3
NURS 372	Adult Health Nursing	3
NURS 382	Communities and Health Policy	2
NURS 411	Topics in Health Care Delivery	3
NURS 411	Topics in Health Care Delivery*	3
NURS 453	Clinical Applications: Adult Health Nursing I	3
NURS 457	Clinical Applications: Maternal Child Nursing	3
NURS 459	Clinical Application: Psychosocial Nursing	3
NURS 460	Clinical Integration Seminar I	2
NURS 473	Clinical Applications: Adult Health Nursing II	3
NURS 477	Clinical Applications: Care of Populations	3
NURS 479	Clinical Preceptorship	3
NURS 480	Clinical Integration Seminar II	2

*Each student is required to take 6 credits of NURS 411

ELECTIVES

After required courses are completed, sufficient elective credits must be taken to meet the minimum credits required for the degree.

CREDITS TO TOTAL A MINIMUM OF 120

Many nursing courses are offered once each academic year. Students must complete selected required lower division courses before enrolling in upper division nursing courses. Nursing courses must be taken in sequence unless otherwise specified.

BACCALAUREATE PROGRAM FOR THE REGISTERED NURSE (BRN)

The School of Nursing offers a separate program to allow registered nurses to earn a Bachelor of Science in Nursing. The Baccalaureate for the Registered Nurse (BRN) major is an innovative program designed to build on basic nursing knowledge, enhancing nursing practice in an increasingly complex society. The BRN major is offered in a distance learning format to maximize educational opportunities for registered nurses. Licensed registered nurses who are graduates of associate degree or diploma programs may apply for admission to this program. For the RN to MSN program, please see graduate nursing programs.

Admission Requirements

A registered nurse who is a graduate of an associate degree or diploma nursing program may apply for admission to the Baccalaureate for the Registered Nurse Major. The applicant should request a distance learning application form or access the application online at <http://www.udel.edu/dsp/BRN> and submit the form with fee to the Division of Special Programs.

Materials requested are:

- Completed application form with application fee
- Official transcripts verifying college credits previously earned including verification of graduation. A student who is transferring credit from other institutions must have a 2.5 cumulative grade point index (GPI) in all previous college work. The University accepts credits only from those institutions that are fully accredited by the appropriate regional accrediting association. This determination is made only at the time of formal application to the University. You may wish to contact institutions you attended previously to ascertain their status during your period of enrollment.
- Current registered nurse license for those licensed in the United States
- Documentation of equivalent to a US RN license for international students plus a minimum score of 600 for the paper test and 250 for the computer based test required for the Test of English as a Foreign Language (TOEFL)

CRITERIA FOR ENROLLMENT IN BACCALAUREATE FOR THE REGISTERED NURSE (BRN) COURSES:

The BRN major is concentrated at the junior and senior levels and requires 120 credits for graduation. Before enrollment in any nursing courses, students must meet the following criteria:

- Official admission to the BRN major
- Completion of all science credits required for the degree. The remaining non-nursing credits can be taken at any time in the program; however students are strongly encouraged to complete non-nursing requirements prior to enrollment in nursing courses.

Submission and approval of:

- Nursing Employment Verification Form
 - The process must be completed before enrollment in the student's first nursing course.
- Updated immunization record to Student Health and the Division of Special Programs
- Current RN license

ACADEMIC PROGRESSION

The program is designed to facilitate timely progression for nurses who are continuing their education while employed full or part-time. There is no time limit for completion of prerequisite courses; however upon enrollment in the first nursing course, the program must be completed within a five-year period. It is possible to complete the required nursing courses in a 12-month period.

DEGREE: BACHELOR OF SCIENCE IN NURSING MAJOR: BACCALAUREATE FOR THE REGISTERED NURSE (BRN)

CURRICULUM

CREDITS

UNIVERSITY REQUIREMENTS

ENGL 110	Critical Reading and Writing (minimum grade C-)	3
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Three credits in an approved course or courses stressing multi-cultural, ethnic, and/or gender-related course content (see p. 62-65) 3

MAJOR REQUIREMENTS

24 credits, to include a minimum of one course in each of the following five categories: 24
(1) biology, (2) microbiology, (3) chemistry, (4) anatomy and physiology, and (5) nutrition.

STAT 200	Basic Statistical Practice	3
English course	(second English composition course)	3
Psychology course		3
Sociology course		3
Lifespan development course		3
Restricted elective	chosen from the following	3
Art, Art History, History, Philosophy, Music, Theatre, Comparative Literature, Black American Studies, Economics, Political Science, Women's Studies, Foreign Languages and Literatures, Linguistics, and English		
NURS 312	Pathophysiology	4
NURS 335	BRN Orientation	1
NURS 345	Conceptual Foundations for Nursing Practice	3
NURS 350	Wellness/Health Assessment	3
NURS 362	Research Concepts in Health Care	3
NURS 411	Topics in Health Care Delivery	3
NURS 435	Leadership & Management in Health Organizations	3
NURS 442	Community Health Nursing	3
NURS 443	BRN Role Practicum	3
NURS 450	BRN Capstone	1

ELECTIVES

After required courses are completed, sufficient elective credits must be taken to meet the minimum credits required for the degree.

CREDITS TO TOTAL A MINIMUM OF 120