

COLLEGE OF HEALTH AND NURSING SCIENCES

Undergraduate Programs

- Advisement
- Honors Opportunities and Dean's Scholar Program
- Health and Exercise Sciences
 - Athletic Training
 - Exercise and Sport Science
 - Health and Physical Education
 - Recreation and Park Administration
 - Coaching Science Minor

- Medical Technology
- Nursing
 - Nursing (BSN)
 - Baccalaureate for the Registered Nurse (BRN)
- Nutrition and Dietetics
 - Applied Nutrition
 - Dietetics
 - Nutritional Sciences

The College of Health and Nursing Sciences includes the Departments of Health and Exercise Sciences, Medical Technology, Nursing, and Nutrition and Dietetics, and the Biomechanics and Movement Science Program. Undergraduate major degree programs are offered in applied nutrition, athletic training, dietetics, exercise and sport science, health and physical education, medical technology, nursing, nutritional sciences, and recreation and parks administration.

The College encourages students 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 http://www.udel.edu/health/.

ADVISEMENT

5 tudents 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.

HONORS OPPORTUNITIES AND DEAN'S SCHOLAR PROGRAM

5 tudents in all 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 Department of Nutrition and Dietetics. Also, the college's Dean's Scholar Program provides qualified students in

Health and Exercise Sciences or Nutrition and Dietetics with the opportunity to share the responsibility of developing an individualized program focusing on the student's academic interests. Additional information is available from the Advisement Resource Center.

HEALTH AND EXERCISE SCIENCES

The offerings of the Department of Health and Exercise Science include elective lifetime activity courses, four undergraduate major degree programs, and an undergraduate minor in Coaching Science.

LIFETIME ACTIVITIES PROGRAM

A varied activity program is available to all students on a credit basis. Courses are provided for all levels of ability and interests.

The objectives of the lifetime activities program are: (1) to provide students with knowledge and skills essential for leisure-time enjoyment, (2) to develop healthy exercise habits in students 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

DEGREE PROGRAMS

The Department features a health and exercise sciences program with four undergraduate majors – athletic training, exercise and sports physical education studies, health and physical education, and recreation and park administration – as well as a minor in coaching science. Each curriculum features a liberal arts base and opportunities for in-depth study in a specialty field. Internships or clinical experiences are available in each degree option.

The athletic training program at the University of Delaware is a National Athletic Trainers' Association (N.A.T.A.) approved undergraduate program awarding the Bachelor of Science Degree in Athletic Training (B.S.A.T.)

Students interested in the exercise and sport science major, with concentrations in biomechanics, exercise physiology, fitness management, figure skating science, physical education studies, or strength and conditioning enroll in this program leading to a Bachelor of Science in Physical Education Studies.

The Health and Physical Education (HPE) program is accredited by the National Council For Accrediation or Teacher Education (NCATE). The program has been recognized as meeting the standards established by the American Alliance for Health, Physical Education, recreation and Dance and by the Association for the Advancement of Health Education. Students who complete program requirements will receive a Bachelor of Science in Health and Physical Education and are eligible for teacher certification through the individual states in the NCATE agreement.

Students interested in preparing for careers in the recreation or leisure service industry can major in the program leading to a Bachelor of Science in Recreation and Park Administration, concentrating either in parks or in programming and leadership.

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

DEGREE REQUIREMENTS HEALTH AND EXERCISE SCIENCES MAJORS

UNIVERSITY REQUIREMENTS (required for all programs)

ENGL 110 Critical Reading and Writing (minimum grade C-)
Three credits in an approved course or courses stressing
multicultural, ethnic, and/or gender-related content. (see p. 57). This
course may also fulfill requirements in the General Studies Area

DEPARTMENT GENERAL STUDIES REQUIREMENTS

Second Writing Course

A 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 Appropriate writing courses are normally designated in the semester's Registration Booklet as "Satisfies Arts and Science Second Writing Course Requirement." (See list of courses approved for Arts and Science second writing

BREADTH REQUIREMENTS

requirement, page 81.)

Students in all majors within the Department of Health and Exercise Sciences must complete a minimum number of credits (listed with each major following) within Groups A through D below

Group A—Communication/Writing Skills

Courses from Cognitive Science (CGSC 496), Communication (COMM), Educational Studies (EDST 521, 522, 523), English (ENGL - must state that course "meets A&S Second Writing Requirement"), Foreign Language (includes ARAB, CHIN, FERN, GREK, GRMN, HEBR, ITAL, JAPN, LATN, PORT, RUSS, SPAN, and SWAH), and Linguistics (LING).

Group B —Humanities/Fine Arts

Courses from Art (ART), Art History (ARTH), Arts and Science (ARSC 125, 126, 127, 130, 295, 296, 360), Art Conservation (ARTC), Science and Culture (CSCC 206, 229, 241, 246, 250, 330, 365, 368, 369, 444), Comparative Literature (CMIT), Consumer Studies (CNST 114, 213, 214, 221, 225, 233), English (ENGL literature courses), Foreign Languages and Literature (FLIT - all courses except 100, 105, 106, 107), Museum Studies (MSST), Music (MUSC), Philosophy (PHIL), Theater (THEA), and Women's Studies (WOMS 203, 205, 210, 216, 222, 242, 320, 325, 326, 328, 330, 338, 353, 380, 381, 382, 389, 390, 392, 401, 440, 442, 465, 471, 480).

Group C—History/Social Sciences

Courses from Accounting (ACCT 352), Anthropology (ANTH- all courses except 102, 104, 202, 404), Black American Studies (BAMS), Business Administration (BUAD 309), Cognitive Science (CGSC 270), Criminal Justice (CRJU), Economics (ECON), Educational Studies (EDST 304, 305), Food and Resource Economics (FREC), Geography (GEOG 102, 120, 203, 210, 225, 226, 227, 230, 235, 236, 240, 270, 310, 320, 325, 328, 330, 340, 345, 346, 351, 380, 422 425, 428, 430, 438, 440, 445, 448, 454, 455), History (HIST), Human Resources (HURE 401), Indi-

vidual and Family Studies (IFST), Jewish Studies (JWST), Legal Studies (LEST), Political Science and International Relations (POSC), Psychology (PSYC - all courses except 306, 309, 314, 380, 411, 412, 414, 481), Sociology (SOCI), and Women's Studies (WOMS).

Group D-Natural Sciences/Mathematics

Must include an approved 3-credit mathematics course at the 100-level or higher plus additional courses from Accounting (ACCT 160, 261), Animal Science (ANSC 101, 111, 140, 251, 300, 310, 332, 345, 404, 417, 418, 421, 431, 441), Anthropology (ANTH 102, 104, 202, 404), Biological Sciences (BISC), Chemistry (CHEM), Computer and Information Sciences (CISC), Engineering [includes Chemical (CHEG), Civil and Environmental (CIEG), Computer (CPEG), Electrical (ELEG), Engineering/ Graphics and General (EGGG), Engineering Technology (EGTE), Materials Science (MASC), Mechanics (MECH), and Mechanical Engineering (MEEG)], Entomology and Applied Ecology (ENTO), Food Science (FOSC), Geography (GEOG 101, 152, 206, 220, 250, 255, 272, 330, 342, 343, 351, 357, 370, 372, 412, 420, 423, 450, 451, 452, 453, 470, 472, 505), Geology (GEOL), Marine Studies (MAST), Mathematics (MATH - all courses except 251, 252, 253, 379, 380, 381), Medical Technology (MEDT), Nutrition and Dietetics (NTDT), Physics and Astronotny (PHYS), Plant and Soil Sciences (PLSC), Psychology(PSYC 306, 309, 314, 380, 411, 412, 414, 481), Science (SCEN), and Statistics (STAT).

DEGREE: BACHELOR OF SCIENCE IN ATHLETIC TRAINING MAJOR: ATHLETIC TRAINING

CURRICULUM CI	REDITS
See University and Department requirements (page 164) for additional degree requirements.	
BREADTH REQUIREMENTS	
Group A—Communication/Writing Skills Must include courses from two different departments	6
Group B —Humanities/Fine Arts	3
Group C—History/Social Sciences Must include courses from two different departments	6
Group D—Natural and Biological Sciences/Mathematics Must include an approved 3-credit MATH course at the 100-level or higher, plus additional courses from two different departments and at least 3 credits of BISC	9
MAJOR REQUIREMENTS	
NTDT 200 Nutrition Concepts PSYC 201 General Psychology BISC 106/116 Elementary Human Physiology and Lab	
or BISC 276 Human Physiology STAT 200 Basic Statistical Practice. CSCC 241 Ethical Issues in Health Care	3
HESC 210 Safety, First Aid and Emergency Care HESC 214 Wellness: A Way of Life HESC 220 Anatomy and Physiology HESC 258 Advanced Taping and Bracing Methods HESC 276 Personal Computers in Health, Physical Education and Recreation HESC 305 Fundamentals of Athletic Training HESC 320 Principles of Strength/Conditioning HESC 350 Basic Concepts in Kinesiology HESC 395 Sports Medicine Pharmacology HESC 405 Program Development/Athletic Injury Rehabilitation HESC 407 Prevention/Recognition/Athletic Injuries HESC 408 Functional Human Anatomy HESC 420 Functional Human Anatomy HESC 430 Physiology of Activity HESC 431 Physiology of Activity HESC 448 Organization & Administration/Athletic Training HESC 449 Advanced Topics in Sports Medicine HESC 481 Practicum in Athletic Training II	3 3 3 1 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
ELECTIVES	

After required courses are completed, sufficient elective credits must be

CREDITS TO TOTAL A MINIMUM OF 120

taken to meet the minimum credits required for the degree

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

(1) Freshman Year – B.S.A.T. Curriculum:

BISC 106/116 (or BISC 207) 4	ENGL 110 3
HESC 210 3	MATH 3
HESC 220	HESC 3053
HESC 276 2	HESC 214
Elective	General Studies 3
15	15

- (2) Minimal overall cumulative index of 2.75
- (3) Minimum of 30 credits after completion of first year.
- (4) Minimum of 100 hours of direct observation in the University of Delaware training room under the supervision of qualified faculty/professionals.
- (5) Three letters of recommendation; students must obtain the University of Delaware Athletic Training Admission Recommendation Form from the program director.
- (6) Completion of N.A.T.A. taping checksheet.
- (7) Successful interview with the Athletic Training Program Director and faculty. During the interview, students will be evaluated by the Athletic Training Program faculty, a senior student trainer enrolled in the program and/or a certified athletic trainer working in the profession. All evaluators will use a standard evaluation form.
- (8) Submission of a written essay

N.A.T.A. guidelines state the student-clinical instructor ratio shall not exceed eight (8) students to one (1) clinical instructor during the course of an academic year. 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 each fall and spring semester. Acceptance/rejection letters will be mailed to each candidate by February 1 and July 1, respectively.

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 Program meet with the Program Director to plan the clinical education experience. Students are required to gain clinical experience in the training room and at practices and home and away games in the men's and women's athletic program. The clinical experience is structured so the student trainer gains progressive development of technical skills and knowledge. Once students are admitted to the program, they are required to work five weeks in the training room. When this requirement is completed, they begin working with individual teams. Students are required to work with at least one men's high-risk sport, one men's low-risk sport, one women's high-risk sport and one women's lowrisk sport, for a minimum of five weeks with each of the sports selected. Once this requirement is completed, the student, in consultation with the Program Director, is allowed to select specific sports for future assignments until completion of their clinical education experience. In addition, all candidates for NATA Certification must verify that at least 25% of their clinical hours credited in fulfilling the NATA Certification Requirements were attained in actual (on location/site) practice and/or games coverage with one or more of the following sports: football, soccer, hockey, basketball, volleyball and lacrosse. The Athletic Training Faculty formally evaluates each student's progress at the end of each semester.

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

- 1. complete 200 clinical hours per semester;
- 2 cumulative index of 2.0:
- 3. satisfactory clinical education evaluations.

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.

N.A.T.A. GUIDELINES FOR CERTIFICATION

- 1. Completion of the Athletic Training Program.
- 2. Minimum of 800 hours practical work under the supervision of the training room staff. The hours must be accumulated over a minimum of two years and not more than four years. No more than 400 hours may be accumulated in one year.
- 3. Completion of the NATA Competency Evaluation Checklist.
- Proof of current American National Red Cross Advanced First Aid Certification and CPR. Must be current on examination date.
- 5. Proof of graduation (official transcript).

EXERCISE AND SPORT SCIENCE ADMISSION REQUIREMENTS AND GUIDELINES

The Department of Health and Exercise Sciences offers a major program in Exercise and Sports Science. Students in the major must choose one of six concentrations: Biomechanics, Exercise Physiology, Figure Skating Science, Fitness Management, Physical Education Studies, or Strength and Conditioning. Admission to and completion of the major and the concentrations requires that students fulfill the following requirements:

- 1. Completion of at least 28 credits at the University of Delaware.
- Successful completion of the following courses: ENGL 110;
 HPER 210;
 HPER 214;
 HPER 220;
 HPER 276;
 HPER 305;
 BISC course with lab, and a MATH course.
- 3. Completion of the appropriate application form for the chosen concentration. Applications are due by June 15th of each year for admission the following fall. Forms are available in and must be returned to the HESC Advisement Center, Carpenter Sports Building.
 - a. Only students matriculated in the Department of Health and Exercise Sciences may apply for admission to the concentrations.
 - b. Meeting the minimum admission requirements does not guarantee admission to the concentration. Offers of admission to Biomechanics, Exercise Physiology, Figure Skating Science, Fitness Management, and Strength and Conditioning are presented on a competitive basis to those individuals who are most qualified.
- 4. Each of the concentrations have additional requirements, as follows:
 - a Biomechanics: Admission will be based on cumulative and major GPA as well as the criteria listed in 1-3 above, with selection on a competitive basis.
 - b. Exercise Physiology: Admission will be based on cumulative and major GPA, as well as the criteris listed in 1-3 above, with selection on a competitive basis.
 - c. Figure Skating Science: After the criteria listed in 1-3 above have been met, each student must meet with the Director of the Figure Skating Science Concentration to determine eligibility.
 - d. Fitness Management: Requires a minimum grade-point average of 2.00. Students will be evaluated and offered admission based on the following criteria: Cumulative and major grade-point averages; application; written essay; and inter-

view (if necessary). Approximately 20 seats are available each year. Once admitted to the program, students will be required to maintain a cumulative index of at least 2.00 or be dropped from the program upon review. Students must complete HPER 354 Fitness Management and all courses in the concentration before enrolling in HPER 464 Internship Experience

- e Physical Education Studies: Upon completion of HPER 235 Professional Transitions and a conference with the faculty advisor, students must declare either two University-approved minors or one University-approved minor and one area of study, approved by the advisor.
- f. Strength and Conditioning: Students desiring admission must have a minimum grade-point average of 2.00 and must have completed 100 hours of direct observation in the Chuck Hall Weight Room under the supervision of the Director of the program. Students will be evaluated and offered admission based on the following criteria: Cumulative and major grade-point averages; application; written essay; written log of direct observation hours; and interview (if necessary). Approximately 3 to 5 seats are available each year. Once admitted to the program, students will be required to maintain a cumulative index of at least 2.00 or be dropped from the program upon review. A minimum of 300 hours of clinical experience must be obtained upon acceptance into the program. The hours must be accumulated over a minimum of three semesters (100 hours per semester) and students cannot participate in clinical experience for more than five semesters. Students must complete HPER 416 Practicum in Strength and Conditioning, the United States Weightlifting Federation Certification course, and the 300 hours of clinical experience before enrolling in HPER 464 Internship Experience.

	BACHELOR OF SCIENCE IN PHYSICAL EDUCATION STUDIES
	EXERCISE AND SPORT SCIENCE TRATION: BIOMECHANICS
CURRICULU/	M CREDITS
	sity and Department requirements (page 164) for legree requirements.
BREADTH	REQUIREMENTS
	Communication/Writing Skills
Group B —	Humanities/Fine Arts 3
	History/Social Sciences 6 PSYC 201 and either PSYC 325 or PSYC 334
	Natural and Biological Sciences/Mathematics
Additional	credits from Group A-D
MAJOR RI	EQUIREMENTS
HESC 210 HESC 214 HESC 220 HESC 276	Safety, First Aid, & Emergency Care 3 Wellness: A Way of Life 3 Anatomy and Physiology 3 Personal Computers in Health, 2 Physical Education and Recreation
HESC 305 HESC 342 HESC 350 HESC 430 HESC 431	Fundamentals of Athletic Training 3 Survey in Adaptive Physical Education 3 Basic Concepts in Kinesiology 3 Physiology of Activity . 3 Physiology of Activity Lab 1
	RATION REQUIREMENTS
BISC 276	Human Physiology and Anatomy
or BISC 306	General Physiology 4

BISC 442 or	Vertebrate Morphology
HESC 420 HESC 426 HESC 427 CSCC 241 MATH 242 MEEG 112 MEEG 211 PHYS 207 PHYS 208 STAT 200	Functional Human Anatomy 4 Biomechanics (Biomechanics I) 4 Biomechanics (Biomechanics II) 3 Ethical Issues in Health Care 3 Analytic Geometry and Calculus B 4 Elementary Linear Algebra 3 Statics 3 Dynamics 3 Fundamentals of Physics I. 4 Fundamentals of Physics II 4 Basic Statistical Practice 3
ELECTIVE	
taken to meel	d courses are completed, sufficient elective credits must be the minimum credits required for the degree.
CREDITS T	O TOTAL A MINIMUM OF 120
I MAJOR: E CONCENT CURRICULUM See Univers	BACHELOR OF SCIENCE N PHYSICAL EDUCATION STUDIES XERCISE AND SPORT SCIENCE RATION: EXERCISE PHYSIOLOGY (CREDITS ity and Department requirements (page 164) for egree requirements.
	REQUIREMENTS
	Communication/Writing Skills
Must include	courses from two different departments.
Group B —	Humanities/Fine Arts 3
	listory/Social Sciences 6
	PSYC 201 and either PSYC 325 or PSYC 334.
	Natural and Biological Sciences/Mathematics
	credits from Group A-D
MAJOR RE	QUIREMENTS
HESC 210	Safety, First Aid, & Emergency Care 3
HESC 214 HESC 220	Wellness: A Way of Life
HESC 276	Personal Computers in Health,
HESC 200	Physical Education and Recreation Issues in Physical Activity Studies and Sports 3
HESC 300 HESC 305	Fundamentals of Athletic Training 3
HESC 324	Measurement and Evaluation
HESC 342 HESC 350	Survey in Adaptive Physical Education/Recreation 3
HESC 430	Basic Concepts in Kinesiology 3 Physiology of Activity 3
HESC 431	Physiology of Activity
CONCENT	RATION REQUIREMENTS
BISC 208 BISC 276	Introductory Biology II
or BISC 306 CHEM 104 PHYS 201/20 STAT 200	General Physiology 4 General Chemistry 4
HESC 353 HESC 420	Seminar in Exercise Physiology 3 Functional Human Anatomy
or BISC 442 HESC 426 HESC 432	Vertebrate Morphology 4 Biomechanics I 4 Basic Exercise Prescription
or HESC 434	Exercise Test Technology 3
ELECTIVE	S
	courses are completed, sufficient elective credits must be the minimum credits required for the degree
	O TOTAL A MINIMUM OF 120

	MAJOR REQUIREMENTS
DEGREE: BACHELOR OF SCIENCE IN PHYSICAL EDUCATION STUDIES	BUAD 301 Introduction to Marketing (prerequisite: ECON 151)
MAJOR: EXERCISE AND SPORT SCIENCE CONCENTRATION: FIGURE SKATING SCIENCE	BUAD 309 Management and Organizational Behavior 3 FREC 201 Records and Accounts 3
CURRICULUM CREDITS	HESC 210 Safety, First Aid, and Emergency Care
See University and Department requirements (page 164) for	HESC 214 Wellness: A Way of Life 3
additional degree requirements.	HESC 220 Anatomy and Physiology
BREADTH REQUIREMENTS	HESC 276 Personal Computers in Health, Physical 2 Education and Recreation
Group A—Communication/Writing Skills 6	HESC 300 Issues in Physical Activity Studies and Sports
Nust include courses from two different departments	HESC 305 Fundamentals of Athletic Training 3
Group B —Humanities/Fine Arts	HESC 324 Measurement and Evaluation
Group C—History/Social Sciences 6	HESC 350 Basic Concepts in Kinesiology 3
Must include PSYC 201 and one course from another department.	HESC 430 Physiology of Activity
Group D—Natural and Biological Sciences/Mathematics 14	CONCENTRATION REQUIREMENTS
Must include an approved 3-credit MATH course at the 100-level or	HESC 263 Leadership Practicum
nigher, BISC course with lab, and NTDT 200	HESC 320 Principles Strength and Conditioning 3
Additional credits from Groups A-D	HESC 332 Health Behavior Theory and Assessment 3
MAJOR REQUIREMENTS	HESC 354 Seminar in Fitness Management 1
NTDT 310 Nutrition and Activity	HESC 432 Individualized Physical Fitness 3 HESC 434 Exercise Test Technology 3
JECC 010 Cofety First Aid and Foreness Core	HESC 445 Concepts of Physical Fitness Testing 3
HESC 210 Safety, First Aid, and Emergency Care 3 HESC 214 Wellness: A Way of Life 3	HESC 452 Principles of Fitness Management 3
HESC 220 Anatomy and Physiology 3	HESC 464 Internship in Fitness Management
HESC 276 Personal Computers in Health, Physical 2	HESC 490 Development of Health Promotion Programs 3
Education and Recreation	Students must register for HESC 354 two semesters before registering for
HESC 300 Issues in Physical Activity Studies and Sport	HESC 464 and must complete all the courses listed under "Major
HESC 305 Fundamentals of Athletic Training	Requirements" before registering for HESC 464
HESC 324 Measurement and Evaluation	ELECTIVES
HESC 342 Survey in Adaptive Physical Education 3	
HESC 350 Basic Concepts in Kinesiology 3 HESC 430 Physiology of Activity 3	After required courses are completed, sufficient elective credits must be taken to meet the minimum credits required for the degree.
HESC 431 Physiology of Activity Lab	,
	CREDITS TO TOTAL A MINIMUM OF 120
CONCENTRATION REQUIREMENTS 1ESC 250 Motor Development	
HESC 260 Leisure Service Programming 3	
HESC 270 Recreation Leadership	DEGREE: BACHELOR OF SCIENCE
IESC 320 Principles of Strength & Conditioning 3	IN PHYSICAL EDUCATION STUDIES
IESC 355 Figure Skating Practicum I 3	MAJOR: EXERCISE AND SPORT SCIENCE
HESC 356 Figure Skating Practicum II	CONCENTRATION: PHYSICAL EDUCATION STUDIES
HESC 360 Psychology of Coaching 1	CURRICULUM CREDITS
HESC 426 Biomechanics I 4	CORRICOLOM
HESC 440 Strategies for Athletic Peak Performance 3	See University and Department requirements (page 164) for
HESC 455 Figure Skating Practicum III	additional degree requirements.
IESC 456 Figure Skating Practicum IV	
ELECTIVES	BREADTH REQUIREMENTS
After required courses are completed, sufficient elective credits must be	Group A—Communication/Writing Skills 6
aken to meet the minimum credits required for the degree	Must include courses from two different departments.
CREDITS TO TOTAL A MINIMUM OF 120	Group B —Humanities/Fine Arts 3
	Group C—History/Social Sciences 6 Must include PSYC 201 and a course from another department
DEGREE: BACHELOR OF SCIENCE	·
IN PHYSICAL EDUCATION STUDIES	Group D—Natural and Biological Sciences/Mathematics 14
MAJOR: EXERCISE AND SPORT SCIENCE	Must include an approved 3-credit MATH course at the 100-level or higher, BISC course with lab, and NTDT 200.
ONCENTRATION: FITNESS MANAGEMENT	
	Additional credits from Groups A-D
CURRICULUM CREDITS	MAJOR REQUIREMENTS
ee University and Department requirements (page 164) for	HESC 210 Safety, First Aid, and Emergency Care
dditional degree requirements. The Second Writing require-	HESC 214 Wellness: A Way of Life 3
nent must be filled with ENGL 312.	HESC 220 Anatomy and Physiology
BREADTH REQUIREMENTS	HESC 276 Personal Computers in Health, 2
	Physical Education and Recreation HESC 300 Issues in Physical Activity Studies and Sports
Proup A—Communication/Writing Skills 6	HESC 305 Fundamentals of Athletic Training 3
Aust include courses from two different departments	HESC 324 Measurement and Evaluation
Froup B —Humanities/Fine Arts 3	HESC 342 Survey in Adaptive Physical Education/Recreation 3
-	TIEGO O 12 OUTTO TITY OF CALL PARTY TO THE TOTAL PA
Froun C—History/Social Sciences	HESC 350 Basic Concepts in Kinesiology
Group C—History/Social Sciences	HESC 350 Basic Concepts in Kinesiology 3 HESC 430 Physiology of Activity 3
Aust include a PSYC course and a SOCI course	HESC 350 Basic Concepts in Kinesiology 3 HESC 430 Physiology of Activity 3 HESC 431 Physiology of Activity Lab 1
Aust include a PSYC course and a SOCI course Proup D—Natural and Biological Sciences/Mathematics	HESC 350 Basic Concepts in Kinesiology 3 HESC 430 Physiology of Activity 3 HESC 431 Physiology of Activity Lab 1
Aust include a PSYC course and a SOCI course Froup D—Natural and Biological Sciences/Mathematics	HESC 350 Basic Concepts in Kinesiology 3 HESC 430 Physiology of Activity 3
Aust include a PSYC course and a SOCI course Proup D—Natural and Biological Sciences/Mathematics	HESC 350 Basic Concepts in Kinesiology 3 HESC 430 Physiology of Activity 3 HESC 431 Physiology of Activity Lab 1 CONCENTRATION REQUIREMENTS

•	credits) and Minor II (15 credits)	DEGREE: BACHELOR OF SCIENCE IN
or		HEALTH AND PHYSICAL EDUCATION
	credits) and Area of Study (15 credits)	MAJOR: HEALTH AND PHYSICAL EDUCATION
with course	work in the Area of Study to be developed with a depart-	CURRICULUM CREDI
	mic advisor and approved by the Chair of the Health & Exer- s Department.	See University and Department requirements (page 164) for additional degree requirements.
ELECTIV	ES	BREADTH REQUIREMENTS
	d courses are completed, sufficient elective credits must be	Group A—Communication/Writing Skills
aken to mee	et the minimum credits required for the degree	
CREDITS 1	TO TOTAL A MINIMUM OF 120	Group B —Humanities/Fine Arts
		Group C—History/Social Sciences Must include PSYC 201 and IFST 401
	BACHELOR OF SCIENCE IN PHYSICAL EDUCATION STUDIES EXERCISE AND SPORT SCIENCE	Group D—Natural and Biological Sciences/Mathematics
	TRATION: STRENGTH AND CONDITIONING	MAJOR REQUIREMENTS
CURRICULU	M CREDITS	C- or better required in all courses except EDUC
	sity and Department requirements (page 164) for degree requirements.	COMM 356 Small Group Communication EDUC 201 Diversity in the Classroom (fulfills University multicultural requirement)
	REQUIREMENTS	EDUC 304 Educational Psychology – Social Aspects EDUC 305 Educational Psychology – Cognitive Aspects
	Communication/Writing Skills 6	EDUC 400 Student Teaching
	courses from two different departments.	Students must have a minimum cumulative g.p.a. of 2.500, a g.p a. in the major of at least 2.750, and must apply to student teach at least one
•	-Humanities/Fine Arts 3	semester in advance.
	History/Social Sciences 6	
	PSYC 201 and a course from another department.	HESC 140 Fundamental Skills Analysis HESC 150 Movement Education for Children
	Natural and Biological Sciences/Mathematics14	HESC 210 Safety, First Aid and Emergency Care
	an approved 3-credit MATH course at the 100-level or	HESC 214 Wellness: A Way of Life
-	106/116, NTDT 200, and a CHEM course with lab.	HESC 220 Anatomy and Physiology
Additional	credits from Groups A-D	HESC 250 Motor Development
AAJOR RI	EQUIREMENTS	HESC 276 Personal Computers in Health, Physical Education and Recreation
VTDT 310	Nutrition & Activity 3	HESC 300 Issues in Physical Activity Studies and Sports
IECC 010	C.C. Franki II. C.	HESC 315 Methods and Materials in Drug Education
ESC 210 ESC 214	Safety, First Aid, and Emergency Care 3 Wellness: A Way of Life 3	HESC 324 Measurement and Evaluation
ESC 220	Anatomy and Physiology	HESC 325 Human Sexuality: Methods and Materials HESC 330 Mental Health
ESC 276	Personal Computers in Health, Physical 2	HESC 332 Health Behavior Theory and Assessment
	Education and Recreation	HESC 342 Survey in Adaptive Physical Education/Recreation
IESC 300	Issues in Physical Activity Studies and Sports 3 Fundamentals of Athletic Training 3	HESC 360 Psychology of Coaching
IESC 305	Fundamentals of Athletic Training	HESC 414 Methods and Materials in Health Education
IESC 324	Measurement and Evaluation 3 Survey in Adaptive Physical Education 3	HESC 426 Biomechanics I
IESC 342 IESC 350	Basic Concepts in Kinesiology 3	HESC 430 Physiology of Activity
ESC 430	Physiology of Activity 3	HESC 431 Physiology of Activity Lab
IESC 431	Physiology of Activity Lab	HESC 141, 142, 143, 144, 242, 243, 244, 251, 252, 253,
	RATION REQUIREMENTS	HESC 370 Practicum in Methods of Elementary Physical Education
IESC 320	Principles in Strength and Conditioning	HESC 380 Practicum in Methods of Secondary Physical Education
ESC 321	Advanced Principles in Strength and Conditioning 4	HESC 465 Teaching Seminar in Health/Physical Education
IESC 322	Weight Room Safety and Design 1	Students must have completed HESC 214, HESC 315, HESC 325, and
IESC 323 IESC 354	Theories and Applications of Program Design	IFST 401 prior to enrolling in HESC 414
ESC 354	Seminar 1 Principles of Coaching 3	Students must apply for Upper Division Clearance prior to enrolling in
IESC 416	Practicum in Strength & Conditioning 3	HESC 325, HESC 370, HESC 380, and HESC 414. In order to apply, stu-
ESC 426	Biomechanics I 3	dents must have completed the eleven HESC Skills Courses and HESC 140 and must have attained a g.p.a. of at least 2.750 in the major and a
IESC 440 IESC 464	Strategies of Peak Athletic Performance 3 Internship 9	2.500 overall.
tudents mus	t register for HESC 354 two semesters before registering for	ELECTIVES
ESC 464 a	nd must complete all the courses listed under "Major	After required courses are completed, sufficient elective credits must be
equirements	" and "Concentration Requirements" before registering for	taken to meet the minimum credits required for the degree.
ESC 464		CREDITS TO TOTAL A MINIMUM OF 128
LECTIVE		
fter required iken to meet	d courses are completed, sufficient elective credits must be the minimum credits required for the degree.	

CREDITS TO TOTAL A MINIMUM OF 120

DEGREE: BACHELOR OF SCIENCE IN RECREATION AND PARK ADMINISTRATION	
MAJOR: RECREATION AND PARK ADMINISTRATION CONCENTRATION: PARKS	
CURRICULUM CREDIT	ΓS
See University and Department requirements (page 164) for additional degree requirements.	
BREADTH REQUIREMENTS	
Group A—Communication/Writing Skills	
Group B —Humanities/Fine Arts	
Group C—History/Social Sciences Must include courses from two different departments.	5
Group D—Natural and Biological Sciences/Mathematics)
Additional credits from Groups A-D	9
MAJOR REQUIREMENTS	
Requires a grade of C- or better in each course. FREC 201 Records and Accounts	3 3 3 3 3 3
HESC 270 Recreation Leadership HESC 276 Personal Computers in Health, Physical Education and Recreation HESC 318 Special Recreation HESC 341 Principles of Outdoor Recreation	3
HESC 354 Seminar in Recreation HESC 404 Organization, Administration, Recreation and Leisure Service General Service HESC 450 Facility and Park Management General Service Gen] 3 3
Students must register for HESC 354 two semesters before registering for HESC 464, and must complete all courses in the "Major Requirements" before enrolling in HESC 464.	
POSC 220 Introduction to Public Policy	
PHIL 448 Environmental Ethics	}
6 credits from Plant Science, Engineering Technology, or Entomology & Applied Ecology with approval of advisor.	5
6 credits from Communication, Criminal Justice, Geography, Philosophy, or Political Science with approval of advisor.	5
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 IN RECREATION	_
AND PARK ADMINISTRATION MAJOR: RECREATION AND PARK ADMINISTRATION CONCENTRATION: PROGRAMMING AND LEADERSHIP	
CURRICULUM CREDIT	S
See University and Department requirements (page 164) for additional degree requirements.	
BREADTH REQUIREMENTS	
Group A—Communication/Writing Skills	
Group B —Humanities/Fine Arts Group C—History/Social Sciences	
Must include courses from two different departments	
Group D—Natural and Biological Sciences/Mathematics)

Additional credits from Groups A-D

	MAJOR RE	QUIREMENTS
	Requires a gro	ade of C- or better in each course.
	FREC 201	Records and Accounts 3
	HESC 105 HESC 164 HESC 210 HESC 2110 HESC 214 HESC 260 HESC 270 HESC 276 HESC 318 HESC 341 HESC 354 HESC 404 HESC 404 HESC 464	Foundations of Recreation and Leisure Skills 3 Practicum in Recreation and Parks 3 Safety, First Aid and Emergency Care 3 Wellness: A Way of Life 3 Leisure Service Programming 3 Recreation Leadership 3 Personal Computers in Health, Physical 2 Education and Recreation 5 Special Recreation 3 Principles of Outdoor Recreation 3 Seminar in Recreation 1 Organization, Administration, Recreation and Leisure Service 3 Fracility and Park Management 3 Internship in Recreation 9
	HESC 464, at	register for HESC 354 two semesters before registering for nd must complete all courses in the "Major Requirements" ng in HESC 464.
Programming and Leadership Courses reflecting a		
	ELECTIVE	S
	After required	courses are completed, sufficient elective credits must be the minimum credits required for the degree.
	CREDITS TO	O TOTAL A MINIMUM OF 120

REQUIREMENTS FOR A MINOR IN COACHING SCIENCE

This minor will help students develop a personal coaching philosophy, an understanding of the body, how it performs, injury and injury prevention, teaching of skills and progressions, sport psychology, and a variety of team responsibilities. A practicum or field experience will be required in the student's chosen sport in order to further enhance the development of coaching skills and philosophy.

The Coaching Science Minor requires 18 credits. Students applying for the minor must have completed at least one semester of full time study with a minimum GPA of 2.25. A minimum grade of C- is required in all courses for the minor.

This minor requires the following courses:

	CREDITS
HESC 210 HESC 220 HESC 320 HESC 390 HESC 360 HESC 460	Safety, First Aid, and Emergency Care 3 Anatomy and Physiology 3 Strength and Conditioning 3 Principles of Coaching 3 Psychology of Coaching 1 Coaching/Performance Practicum 2
A total of	Electives in Skills/Coaching

MEDICAL TECHNOLOGY

Medical Technology 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.

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 cumulative index of 2.0 in first four semesters of coursework.
- 2. Minimal gradepoint index of 2.0 computed from specified courses in biological sciences and chemistry, including laboratories: BISC 207, 208, 276, 371, 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. 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 grade point average 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.

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

DEGREE: BACHELOR OF SCIENCE

MAJOR: MEDICAL TECHNOLOGY	
CURRICULUM	CREDITS
UNIVERSITY REQUIREMENTS	
ENGL 110 Critical Reading and Writing (minimum grade C-) Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content (see p 57)	3
MAJOR REQUIREMENTS	
Writing: {minimum grade C-} 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 60 credit hours. Appropriate writing courses are normally designated in the semester's Registration Booklet. (See list of courses approved for second writing requirement, page 81.)	

One of the to	llowing
	College Mathematics and Statistics ts who do not intend to continue the study of mathematics)
	Pre-Calculus
	its who intend to continue the study of mathematics)
MATH 221	
MATH 241	Analytic Geometry and Calculus A
Successful per	rformance on the college proficiency exam (0 credits awarded).
Breadth Re	quirements
	ge of Arts and Science standards, See page 83.)
	derstanding and appreciation of the creative arts and humanities 6
Group B: The	study of culture and institutions over time
Group C: Emi	pirically based study of human beings and their environment 6
,	·
(minimum gra	de of C- required in all MEDT courses)
MEDT 100	Introduction to Medical Technology
MEDT 370	Phlebotomy Practicum 1
MEDT 372	Diagnostic Parasitology
MEDT 374	Introduction to Clinical Chemistry 1
MEDT 376	Clinical Virology and Immunology 2
MEDT 378	Clinical Laboratory Computer Applications 2
MEDT 400	Urinalysis and Body Fluids
MEDT 401	Clinical Physiological Chemistry I
MEDT 411	Clinical Physiological Chemistry I Laboratory 2
MEDT 404	Hematology I
MEDT 414	Hematology Laboratory 1 Medical Microbiology 3
MEDT 406 MEDT 416	Medical Microbiology
MEDT 410	Medical Microbiology Laboratory. 2 Principles of Medical Technology Education 1
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
MEDT 415	Hematology Laboratory 2
MEDT 409	Immunohematology 1
MEDT 419	Immunohematology Laboratory 1
MEDT 420	Immunohematology II 1
MEDT 421	Immunohematology II Laboratory
MEDT 430	Diganostic Bacteriology and Medical Mycology 2
MEDT 431	Diagnostic Bacteriology and Medical Mycology Laboratory 2 Management Topics in Medical Technology 1
MEDT 461	Management Topics in Medical Technology
MEDT 471	Seminar: Medical Technology Laboratory Management
MEDT 472	Clinical Urinalysis and Serology Practicum
MEDT 473	Clinical Chemistry Practicum 3
MEDT 475	Clinical Hematology Practicum 3
MEDT 477 MEDT 479	Clinical Microbiology Practicum 3 Clinical Immunohematology Practicum 3
MEDI 4/ 9	
BISC 207/20	08 Introductory Biology I and II
BISC 276	Human Physiology and Anatomy 4
BISC 371	Introduction to Microbiology 4
BISC 471	Introductory Immunology 3
CHEM 103/1	104 General Chemistry
CHEM 213	· .
and and	Elementary Organic Chemistry
CHEM 214/2	216 Elementary Biochemistry with Lab
or	2.0 Lionary bloomanny min sau
CHEM 321/3	322 Organic Chemistry

NURSING

The Department of Nursing offers a four-year baccalaureate degree program in nursing and an accelerated nursing 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 some course work at home or in the worksite via video or webenhanced courses. In addition, the Department offers a master's program in nursing, with concentrations in Family Nurse Practitioner, Nursing Administration, Clinical Nurse Specialist, and a combined Clinical Nurse Specialist/Specialty Nurse Practitioner option.

CREDITS TO TOTAL A MINIMUM OF 123

The four-year Bachelor of Science in Nursing program is designed to develop the knowledge, understanding and skill essential

for the practice of professional nursing and to provide the basis for graduate education. The program is accredited by both the Center for Collegiate Nursing Education and the National League for Nursing Accrediting Commission and information on program requirements is available from the League at 350 Hudson St., New York, NY, 10014; telephone 1-800-669-1656. The first two years of the program include foundation courses in the natural, social, and behavioral sciences, liberal arts, and three introductory nursing courses. The third and fourth years of study include clinical and nonclinical nursing courses as well as elective courses. The Department of Nursing uses many healthcare agencies in the Wilmington-Newark and nearby areas for clinical teaching.

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 College chapter of the National Student Nurses' Association. 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 are encouraged to pursue the program requirements for a degree with distinction, and honors courses are available at the upper levels. Research opportunities are available to all undergraduates

POLICIES

In order to meet degree requirements, nursing majors must have a minimum cumulative grade point average 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. Further, 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 faculty advisor to ensure that all requirements are being met

Students are expected to provide their own transportation to all required clinical laboratories.

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.

Telephone: (302) 831-2193

http://www.udel.edu/nursing/udnursing.html

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 one course which is offered in a video delivery 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, fall semester, and concluding with the following January winter session. All non-nursing coursework must be completed prior to the first winter session.

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, augmented by small group discussion sessions. Each student will receive a complete set of video tapes for specified courses permitting greater flexibility in scheduling study time. Six courses incorporate video delivery plus discussion sessions.

Eligibility for this course of study includes the following:

- 1. An earned baccalaureate degree.
- 2. GPA of 3.0 or greater
- 3. Completion of all non-nursing courses prior to first Winter session.

The Department of Nursing holds information sessions periodically to present an overview of the program and answer questions. If you would like to attend an information session, please contact the Department at 302-831-2381 to be placed on our mailing list. You may wish to bring unofficial copies of your transcripts to a session if you have not submitted them previously. The exact curriculum plan will be tailored to each student's needs by an advisor; a sample plan may be viewed at the Accelerated Degree Program website (http://www.udel.edu/nursing/accel.html). Students who may need financial assistance in pursuing a second degree should contact the Financial Aid Office at 302-831-1534. In addition, students are encouraged to seek non-traditional opportunities for aid. Reference books on private financial aid sources are available in libraries or local academic institutions in your community.

Telephone: 302-831-2193 E-mail: ud-chns@udel.edu

http://www.udel.edu/nursing/accel.html

DEGREE: BACHELOR OF SCIENCE IN NURSING

MAJOR: N	IURSING	
CURRICULUM	CREE	OITS
ENGL 110 Three credits i	TY REQUIREMENTS Critical Reading and Writing (minimum grade C-) in an approved course or courses stressing al, ethnic, and/or gender-related content (see p. 57)	
MAJOR RE	QUIREMENTS	
BISC 207/20 BISC 276 BISC 371 CHEM 105 CHEM 106 NTDT 200 STAT 200	8 Introductory Biology I and II Human Physiology Introduction to Microbiology General Chemistry Elementary Bioorganic Chemistry Nutrition Concepts Basic Statistical Practice	4 5 5 3
Philosophy co Restricted Hun Art, Art His	Expository Writing rse 200-level or above urse nanities course chosen from among story, Ancient Literature, Comparative Literature, Foreign and Literatures, Modern Literature, History, Philosophy, attre	. 3 3
Anthropology Restricted Soc History, Pol	General Psychology Life Span Development urse 200-level or above course 100-level or above iol Science course chosen from among litical Science, Economics, Black American Studies, Studies, Psychology, Sociology	. 3 . 3 . 3
NURS 205 NURS 212 NURS 215	Societal Context of Nursing Concepts in Pathophysiology Basic Nursing Practice Skills	3

NURS 306	Determinants of Wellness	5
NURS 308	Restorative Nursing Practice I	4
NURS 315	Practicum I	4
NURS 312	Pathophysiology	3
NURS 314	Psychopathology	2
NURS 317	Psychopathology Practicum II	3
NURS 318	Practicum III	
or Numerous	Practicum IV	^
NURS 319		
NURS 332	Pharmacological Nursing Responsibility	3
NURS 405	Introduction to Research	3
NURS 408	Restorative Nursing Practice II	4
NURS 409	Professionalism in Nursing Practice	2
NURS 411	Topics in Health Care Delivery Practicum V	3
NURS 417	Practicum V.	3
NURS 418 or	Practicum VI	
NURS 419	Practicum VII	3
	Practicum VIII	,
NURS 420	Practicum VIII	Ó
ELECTIVE	S	

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 126

Most nursing courses are offered once each academic year. Students must complete required lower division courses before enrolling in nursing courses. Nursing courses must be taken in sequence.

BACCALAUREATE PROGRAM FOR THE REGISTERED NURSE (BRN)

The Department of Nursing offers a seperate program to allow registered nurses to earn a Bachelor of Science in Nursing. Licensed registered nurses who are graduates of associate degree or diploma programs may apply for admission to this program. Graduates of National League for Nursing (NLN) accredited associate degree programs may directly transfer up to 30 credits in nursing as evidence of their basic nursing knowledge. Graduates of diploma schools of nursing and graduates of non-NLN accredited associate degree programs must complete validation examinations. Upon successful completion of these examinations, the student will be awarded 30 credits for basic nursing knowledge. Before enrollment in any nursing courses, students must meet the following criteria:

- Completion of 36 credits of non-nursing requirements which must include 24 credits in science and up to 6 credits of free electives
- GPA of 2.5 or higher for non-nursing prerequisite courses
- · Validation of basic nursing knowledge
- Validation of clinical competence

All required nursing courses in the BRN major, with the exception of three weekend courses (NURS 343, 441, and 445), are offered in a distance-learning video or web-enhanced format. Many of the support courses are also available in a distance-learning format.

Telephone: (302) 831-4549

http://www.udel.edu/ContEd/brnwelc.html

DEGREE: BACHELOR OF SCIENCE IN NURSING MAJOR: BACCALAUREATE FOR THE REGISTERED NURSE (BRN) CURRICUIUM **CREDITS** UNIVERSITY REQUIREMENTS ENGL 110 Critical Reading and Writing (minimum grade C-) Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content (see p. 57).

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

	Basic Statistical Practice	
English course Literature cour Philosophy co	(second English composition course) se urse	3
Sociology cou	urserse	3
Art, Art His ature, Black	tive chosen from the following	3
NURS 312 NURS 314 NURS 340 NURS 342 NURS 343 NURS 344 NURS 405 NURS 411 NURS 441 NURS 442 NURS 443 NURS 445 NURS 446	Pathophysiology Psychopathology Current Perspectives in Professional Nursing Nursing Informatics Transition to Baccalaureate Nursing Education Wellness/Health Assessment Introduction to Nursing Research Topics in Health Care Delivery Learning Lab: Health Assessment Community Health Nursing BRN Role Practicum Nursing Research Applications Leadership/Organizational Behavior	3221231331
After required taken to meet	courses are completed, sufficient elective credits must be the minimum credits required for the degree	

NUTRITION AND DIETETICS

The Department of Nutrition and Dietetics offers undergraduate majors in Applied Nutrition, Dietetics, and Nutritional Sciences, all with Honors Degree options, as well as a minor in Nutrition. The programs integrate chemistry, biology, social science and business courses with the study of nutrition. The baccalaureate programs in Nutrition and Dietetics provide opportunities for careers in business; industry; public, private, or government agencies; and education. In addition to the specialized courses necessary for competence in one's selected professional major, the curricula include courses in the humanities, the sciences, and the social sciences

CREDITS TO TOTAL A MINIMUM OF 125

The Dietetics major leads to the attainment of certification as Registered Dietitian by the American Dietetic Association (ADA) and has approval status by the Commission on Accreditation/ Approval for Dietetics Education. Students in this major complete the professional practice requirement after the Bachelor of Science degree by completing an ADA dietetic internship or alternative. See the Graduate Catalog for information on the Dietetic Internship

The first two years of coursework are nearly identical for the Applied Nutrition and the Dietetics majors. Students are admitted to the Dietetics major after successful completion of three semesters of course work in the Applied Nutrition major. A 2.5 cumulative grade point average is included in the criteria for admission.

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 focus such as Gerontology, Communication, Food Service Management, or Fitness may be incorporated The Applied Nutrition major also serves as the entry major for students who later apply to Dietetics in their sophomore year. Students who plan on becoming a Registered Dietitian and on conducting counseling and the related activities of a dietitian/nutrition counselor should complete the Dietetics major.

The Nutritional Sciences major meets the needs of 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

CREDITS

positions with companies or agencies requiring the extensive use of a strong science and human nutrition background. It provides students with a strong foundation for graduate work in human nutrition and related fields (e.g., physical therapy) and as such may be considered primarily as a preprofessional degree. Students planning on career-related employment upon graduation are encouraged to plan their electives in a concentrated area of interest such as journalism, dietetics, food science, child development, chemistry, biological sciences, or other related fields.

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. For example, 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.

Nutrition and Dietetics students are encouraged to enrich their academic program by participating in the college's visiting student programs, study abroad experiences, seminars, and student organizations, such as the Nutrition and Dietetics Club. To enhance employment prospects, 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 in the American Dietetic Association and the Society of Nutrition Education.

There are several special academic opportunities for exceptionally talented and highly motivated students. Students in each Nutrition and Dietetics major may participate in the University's Honors Program, undergraduate research, and the Degree with Distinction program. Also, the College's Dean's Scholar Program provides qualified students with the opportunity to develop an individualized program focusing on the students' academic interests.

Selection and retention policies for all majors in this department have been established and are available from the department office.

Telephone: (302) 831-8729 http://napa.ntdt.udel.edu/index.html

GENERAL EDUCATION COURSES

The following courses have been approved to fulfill humanities and social science electives for students in majors offered by the Department of Nutrition and Dietetics.

HUMANITIES

Art, Art History, Communication, Comparative Literature, English, Foreign Language (including: ARAB, CHIN, FREN, GREK, GRMN, HEBR, ITAL, JAPN, LATN, PORT, RUSS, SPAN), Foreign Languages and Literatures, Jewish Studies, Linguistics, Museum Studies, Music, Philosophy, Theater, Women's Studies (WOMS 100, 203, 205, 208, 209, 210, 214, 216, 222, 318, 320, 324, 325, 326, 328, 330, 338, 353, 380, 381, 382, 389, 465, 471, 480), Science and Culture (CSCC 206, 229, 241, 246, 250, 330, 365, 368, 369, 444).

SOCIAL SCIENCE

Anthropology (cultural/social, all except ANTH 102, 104, 202), Black American Studies, Business Administration (BUAD 309), Criminal Justice, Economics (including FREC 150), Geography (economic and social, including: GEOG 102, 120, 203, 210, 225, 226, 227, 236, 240, 310, 325, 328, 330, 340), History, Political Science, Psychology (except PSYC 309 and 314), Sociology, Women's Studies (WOMS 201, 202, 204, 206, 207, 211, 212, 213, 233, 240, 290, 291, 297, 298, 299, 300, 305, 323, 333, 335, 350, 363, 407, 409, 413, 415, 430, 436, 460, 473, 498), Science and Culture (CSCC 233, 242, 243, 271, 310, 311, 355, 382, 385).

HONORS DEGREES IN THE DEPARTMENT OF NUTRITION AND DIETETICS

5 tudents can earn an Honors Bachelor of Science Degree in Applied Nutrition, Dietetics, or Nutritional Sciences by completing the following requirements:

- 1. All requirements for the Bachelor of Science Degree in the respective major.
- 2. All the University's generic requirements for the Honors Baccalaureate Degree (see page 43 of this catalog).

DEGREE: BACHELOR OF SCIENCE MAJOR: APPLIED NUTRITION

CURRICULUM

CURRICULUM	KEDI12
UNIVERSITY REQUIREMENTS ENGL 110 Critical Reading and Writing (minimum grade C-) Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content (see p 57)	
MAJOR REQUIREMENTS	
Humanities electives	9
CHEM 101/102 General Chemistry or	
CHEM 103/104 General Chemistry	
CHEM 213 Elementary Organic Chemistry CHEM 214/216 Elementary Biochemistry with Lab	4
BISC 103/113 General Biology with Lab or	
BISC 207/208 Introductory Biology I and II	4-8
BISC 106/116 Elementary Human Physiology with Lab or	
BISC 276 Human Physiology and Anatomy	4
ECON 100 Economic Issues and Policies	
ECON 151 Introduction to Microeconomics: Prices and Markets PSYC 201 General Psychology	3
Sociology course BUAD 309 Management and Organizational Behavior Social Science elective	3
FOSC 305/306 Food Science with Lab (minimum grade of C-)	3
MATH 114 Elementary Mathematics and Statistics	
Successful performance on the Proficiency Test in Mathematics administered by Department of Mathematical Sciences	
IFST course IFST, NTDT, HRIM courses	3 3
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 NTDT 200 Nutrition Concepts NTDT 201 Food Principles NTDT 211 Food Principles Laboratory NTDT 400 Macronutrients NTDT 401 Micronutrients NTDT 445 Nutrition Education NTDT courses (300-level or higher) NTDT courses	3 2 1 3 3 3
ELECTIVES	

After required courses are completed, sufficient elective credits must be

May include Military Science, Music, or Physical Education. (Only two

credits of activity-type Physical Education and four credits of Music and

four credits of 100- and 200-level courses in Military Science/Air Force

CREDITS TO TOTAL A MINIMUM OF 120

taken to meet the minimum credits required for the degree

may be counted toward the degree.)

NTDT 445

DEGREE: B MAJOR: D	ACHELOR OF SCIENCE DIETETICS	
CURRICULUM		CREDITS
UNIVERSIT	TY REQUIREMENTS	
	Critical Reading and Writing (minimum grade C-)	
	in an approved course or courses stressing	3
	EQUIREMENTS ectives	. g.
CHEM 101/1 or		
CHEM 103/1	104 General Chemistry	8
CHEM 213 CHEM 214/2	Elementary Organic Chemistry	4
BISC 103/11	3 General Biology with Lab	
or BISC 207/20	D8 Introductory Biology I and II	1Ω
BISC 106/11		4-0
or		
BISC 276	Human Physiology and Anatomy	4
BISC 371	Introduction to Microbiology ring to fulfill a Biology minor should take BISC 207, 208	4
Students desir and 276.	ing to tultill a Biology minor should take BISC 207, 208	
ECON 100	Economic Issues and Policies	
or ECON 151	Introduction to Microeconomics: Prices and Markets	2
PSYC 201	General Psychology	
	llowing courses	3
SOCI 201 SOCI 202	Introduction to Society Social Deviance	
SOCI 203	The Individual and Society	
SOCI 204	Urban Communities	
SOCI 209	Social Problems	
SOCI 210 SOCI 242	Population Problems	
SOCI 242	Society and the Health Professions Society, Politics and Health Care	
PSYC 303	Introduction to Social Psychology	
SOCI 310	Sociology of Healthcare	
BUAD 309	Management and Organizational Behavior	3
Social Science	e elective	3
FOSC 305/3	, , ,	
	se selected from: STAT 200, PSYC 309, FREC 408	
MATH 114 or	Elementary Mathematics and Statistics	3
Successful per istered by De	rformance on the Proficiency Test in Mathematics admin- partment of Mathematical Sciences.	3
fulfillment of 3 courses must level courses	rade of C- must be achieved for credits to count toward th 39 credits in NTDT; a minimum grade of C- in 200-level be achieved to proceed to upper-level courses; only 300- and a maximum of four credits of Special Problems/Inde- y (NTDT x66) may count toward the fulfillment of this	e
first three sem	to Dietetics requires the completion of most courses in the nesters of Applied Nutrition. A cumulative grade point ave required for admission.	r-
NTDT 103	Introduction to Nutrition Professions	1
NTDT 200	Nutrition Concepts	
NTDT 201 NTDT 211	Food Principles	
NTDT 240	Introduction to Clinical Dietetics	
NTDT 321	Quantity Food Production and Service	3
NTDT 322	Management of Food and Nutrition Services	3
NTDT 325 NTDT 328	Laboratory in Quantity Food Production and Service Foodservice Facility Design	
NTDT 330	Nutrition Counseling	
NTDT 400	Macronutrients	3
NTDT 401	Micronutrients	
NTDT 403 NTDT 421	Dietetics Seminar	
NIDT 440	A Large and Disease	

NTDT 445 Nutrition Education 3 NTDT 460 Community Nutrition 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 Physical Education. (Only two credits of activity-type Physical Education and 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 126				
DEGREE: BACHELOR OF SCIENCE MAJOR: NUTRITIONAL SCIENCES				
CURRICULUM CREDITS				
UNIVERSITY REQUIREMENTS				
ENGL 110 Critical Reading and Writing (minimum grade C-) 3 Three credits in an approved course or courses stressing				
MAJOR REQUIREMENTS				
Humanities electives				
CHEM 103/104 General Chemistry				
CHEM 214/216 Elementary Biochemistry with Lab 4 CHEM 220/221 Quantative Analysis I with Lab 4				
CHEM 220/221 Quantative Analysis I with Lab				
BISC 207/208 Introductory Biology I and II				
BISC 276 Human Physiology and Anatomy				
PHYS 201 Introductory Physics I				
ECON 100 Economic Issues and Policies or				
ECON 151 Introduction to Microeconomics: Prices and Markets				
FOSC 305/306 Food Science with Lab (minimum grade C-)				
FREC 408 Research Methods				
MATH 221/222 Calculus I and II				
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 29 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 200 Nutrition Concepts 3 NTDT 201 Food Principles 2				
NTDT 211 Food Principles Laboratory				
NTDT 400 Macronutrients				
NTDT 401 Micronutrients 3 NTDT 421 Nutrition Assessment Methods 2				
NTDT 440 Nutrition and Disease				
NTDT courses (300-level or higher)				
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 Physical Education. (Only two credits of activity-type Physical Education and 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				
MINOR IN NUTRITION				

Requirements for a minor in nutrition requires NTDT 200, NTDT 400, NTDT 401 plus 6 credits in Nutrition and Dietetics at the 300-level or higher. A 2.0 grade point average 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 NTDT 400 and NTDT 401.