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## Undergraduate Programs

## - Advisement

- Pass/Fail Courses
- Dean's Scholar Program
- Health and Exercise Sciences

Medical Technology<br>- Nursing<br>- Nutrition and Dietetics

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 science, health and physical education, medical technology, nursing, nutritional sciences, and health behavior management

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 edt or visit http://www udel.edu/health/.

## ADVISEMENT

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

## PASS/FAIL COURSES

Courses taken pass/fail cannot be used to complete major requirements in the College of Health and Nursing Sciences Pass/fail courses can be counted only as free electives.

## DEAN'S SCHOLAR PROGRAM

Students 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 Dean's Scholar's 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 http://www.udel.edu/provost/acadprog html for more information and the application.

## 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 undergraduate minors in Coaching Science and Strength and Conditioning.

## LIFETIME ACTIVITIES PROGRAM

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

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.

## DEGREE PROGRAMS

The Department of Health and Exercise Sciences offers a broad spectrum of undergraduate programs that prepare students for a variety of careers in the arenas of health care, education, recreation, and sport/fitness management Students graduate with a Bachelor of Science degree in one of four academic majors: Athletic Training, Exercise Science, Health and Physical Education, or Health Behavior Management.

The Athletic Training program is approved by the National Athletic Trainers' Association (NATA) and accredited by the Committee on Allied Health Education and Accreditation (CAHEA). The Health and Physical Education program is accredited by the National Council for Accreditation of Teacher Education (NCATE)

Concentrations within the Exercise Science major allow students to further specialize in Biomechanics, Exercise Physiology, Figure Skating Science, or, Exercise and Sport Studies. Students in the Health Behavior Management major select a concentration in Fitness Management, Sport Management, or Recreation and Park Administration Internships, practicums, and clinical experiences are available in each program. The Department also offers minors in Coaching Science and Strength Conditioning

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

## DEGREE REQUIREMENTS

## GENERAL STUDIES REQUIREMENTS

## UNIVERSITY REQUIREMENTS (required for all programs)

ENGL 110 Critical Reading and Writing (minimum grade C.)
Multicultural course:
Three credits in an approved course or courses stressing
multicultural, ethnic, and/or gender-related content (See p 57) This course
can be used in the Breadth Requirements, Major Requirements, or Electives

## COLLEGE REQUIREMENTS

Second Writing Course (minimum grade $C$-)
Must be an approved course that involves a significant writing experience including two papers of moderate length (must state "Second Writing Course Requirement" in the Registration Catalog)

## BREADTH REQUIREMENTS

## Group A-Communication Skills

Can choose selected courses from the following departments: Communication (COMM), English (ENGL - courses must state that course "Meets Arts and Science Second Writing Requirement" to count in this area; must be SEPARATE from the Second Writing Course requirement), Foreign Languages and Literature (FLLT 100, 101, 105, and 106), Foreign Languages lincludes ARAB, CHIN, FREN, GREK, GRMN, HEBR, ITAL, JAPN, JWST, LATN, PORT, RUSS, SPAN, and SWAH), and Linguistics (LING)

## Group B -Humanities and Fine Arts

Can choose selected courses from the following departments: Art (ART), Art His tory (ARTH), Art Conservation (ARTC), Comparative Literature (CMLT), English [ENGL - must be literature courses), Foreign Languages and Literature (FLLT does not include 100, 101, 105, and 106), Museum Studies (MSST), Music (MUSC), Music Education (MUED), Philosophy (PHIL), and Theater (THEA)

## Group C-History and Social Sciences

Can choose selected courses from the following departments: Anthropology (ANTH), Black American Studies (BAMS), Criminal Justice (CRUU), His tory (HIST), Individual and Family Studies (IFST), Political Science and International Relations (POSC), Psychology (PSYC), Sociology (SOCI), and Women's Studies (WOMS)

Group D-Biological/Natural Sciences and Mathematics
Can choose selected courses from the following departments: Accounting (ACCT), Animal Science (ANSC), Biological Sciences (BISC), Chemistry (CHEM), Computer and Information Science (CISC), Computer Engineering (CPEG), Electrical Engineering (ELEG), Engineering Technology
(EGTE), Materials Science (MASC), Mechanical Engineering (MEEG),
Entomology and Applied Ecology (ENTO), Food Science (FOSC), Geogra phy (GEOG), Geology (GEOL), Marine Studies (MAST), Mathematics
(MATH), Medical Technology (MEDT), Nutrition and Dietetics (NTDT),
Physics and Asironomy (PHYS), Plant and Soil Sciences (PLSC), Science
(SCEN), and Statistics (STAT)
Additional Breadth Requirements (varies by program)
Most programs require additional credits from Groups A, B, C, and D; additional courses can be chosen from any of the areas

## DEGREE: BACHELOR OF SCIENCE MAJOR: ATHLETIC TRAINING

## CURRICULUM

CREDITS
See University and Department requirements (page 172) for additional degree requirements.

## BREADTH REQUIREMENTS

Group A-Communication/Writing Skills ...... . .................. . .
Must include courses from two different departments
Group B -Humanities/Fine Arts3

Group C-History/Social Sciences

Must include courses from two different departments
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
MAJOR REQUIREMENTS (minimum grade C - in each)
NTDT 200 Nutrition Concepls.... .... ................ . ..................................... 3
PSYC 201 General Psychology .... ......................................................... 3
BISC 106 Elementary Human Physiology or
BISC 276 Human Physiology ........................................................... 3
STAT 200 Basic Statistical Practice..... ....... ....... . . ....... 3

HESC 210 Safety, First Aid and Emergency Care .... ............................... 3

HESC 220 Anatomy and Physiology ............................................ 3
HESC 257 Athletic Training Practicum I ................................................. 3
HESC 258 Advanced Taping and Bracing Methods
HESC 276 Personal Computers in Health, Physical Education and Recreation
HESC 305 Fundamentals of Athletic Training ................................................ 3
HESC 320 Principles of Strength/Conditioning ....... ............................... 3
HESC 350 Basic Concepts in Kinesiology ................................. 3
HESC 357 Athletic Training Practicum II

HESC 395 Sports Medicine Pharmacology .......................... 3
HESC 405 Rehabilitation of Athletic Injuries ................ . ..... ... 3
HESC 407 Prevention/Recognition/Athletic Injuries
HESC 409 Therapeutic Modalities ... .......................................... 4
HESC 420 Functional Human Anatomy .............................. 4
Biomechanics I
Physiology of Activity -1
HESC 431 Physiology of Activity 16 ............................................... 3
HESC 448 Organization \& Administration/Athletic Training
HESC 449 Advanced Topics in Sports Medicine ......................................... 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
Incoming freshmen and transfer students interested in the athletic training major are admitted to "Athletic Training Interest." At the completion of the freshman year, students who wish admission into the athletic training major must have completed the following:
(1) Freshman Year - Athletic Training Curriculum:

(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 the Student Competencies Checklist
(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 spting 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 low-risk 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.

## NATABOC REQUIREMENTS FOR CERTIFICATION

1. Completion of the Athletic Training Program.
2. Proof of graduation (an official transcript)
3. Proof of current certification in CPR.
4. Completion of a minimum of 800 hours of athletic training clinical experience under the supervision of a NATABOC certified athletic trainer The hours must be accumulated over a minimum of two years and not more than five years. No more than 400 clinical education hours may be counted in one year. At the time of application, a candidate for certification must verify that at least twenty-five percent ( 200 hours) of the required athletic training experience hours credited in fulfilling the Certification Requirements were obtained in actual (on location) practice and/or game coverage with one or more of the following sports: football, soccer, volleyball, basketball, and lacrosse.
5. The endorsement of the certification application by an NATABOC Certified Athletic Trainer.

## EXERCISE SCIENCE

## ADMISSION REQUIREMENTS AND GUIDELINES

The Department of Health and Exercise Sciences offers a major in Exercise Science leading to a Bachelor of Science. Students in the major must choose one of four concentrations: Biomechanics, Exercise and Sport Studies, Exercise Physiology, or Figure Skating Science. Admission to the major and the concentrations requires that students fulfill the following requirements:

1. Completion of at least 12 credits at the University of Delaware with a minimum GPA of 2.0
2. Successful completion of the following courses: HESC 210; HESC 214; HESC 220; and a BISC course with lab.
3. Completion of the appropriate application form for the chosen concentration. Applications are due by April 1st and November 1 st of each year. Forms are available in and must be returned to the HESC Advisement Center, Carpenter Sports Building.
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 and Sport Studies: Upon completion of HESC 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
c. Exercise Physiology: 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.
d. 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.

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

CURRICULUM
CREDITS
See University and Department requirements (page 172) for additional degree requirements.
BREADTH REQUIREMENTS
Group A-Communication/Writing Skills
Must include courses from two different departments
Group B-Humanities/Fine Arts
Group C-History/Social Sciences
Must include PSYC 201 and either PSYC 325 or PSYC 334.
Group D-Natural and Biological Sciences/Mathematics
Must include BISC 207, BISC 208, CHEM 103, CHEM 104, MATH 241, NTDT 200
Additional credits from Group A-D ..... 9
MAJOR REQUIREMENTS (minimum grade C- in each)
HESC 210 Safety, First Aid, \& Emergency Care .....  3
HESC 214 Wellness: A Way of Life

HESC 220 Anatomy and Physiology

HESC 350 Basic Concepts in Kinesiology
HESC 426 Biomechanics I ......................................................... 4

HESC 431 Physiology of Activity Lab
CONCENTRATION REQUIREMENTS (minimum grade $C$ - in each)
BISC 276 Human Physiology or
BISC 306/367 General Physiology ............................................. 4
BISC 442 Vertebrate Morphology
FSC 420 Functional Human Anatomy ... .......... ........ ....... 4

HESC 400 Research Methods. ... ... ...... ..................................... 3
HESC 427 Biomechanics II). ....................................................... 3
MATH 242 Analytic Geometry and Calculus B...................................... 4
MATH 349 Elementary Linear Algebra ... ........................................... 3
MEEG 112 Statics.
MEEG 211 Dynamics
PHYS 207 Fundamentals of Physics I
PHYS 208 Fundamental of Physics

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

See University and Department requirements (page 172) for additional degree requirements.
RREADTH REQUIREMENTS
Group A-Communication/Writing Skills ..... 6
Group B-Humanities/Fine Arts ..... 3
Group C-Hisfory/Social Sciences ..... 6
Must include PSYC 201 and either PSYC 325 or PSYC 334
Group D-Natural and Biological Sciences/Mathematics. ..... 14
Addifional credits from Group A-D ..... 9
MAJOR REQUIREMENTS (minimum grade C- in each)
HESC 210 Safery, First Aid, \& Emergency Care ..... 3
HESC 214 Wellness: A Way of Life
Anatomy and PhysiologyHESC 426 Biomechanics
HESC 430 Physiology of Activity
HESC 431 Physiology of Activity Lab
DEGREE: BACHELOR OF SCIENCE MAJOR: EXERCISE SCIENCE
CONCENTRATION: EXERCISE AND SPORTS STUDIESCURRICULUMSee University and Department requirements (page 172) foradditional degree requirements.
BREADTH REQUIREMENTS
Group A-Communication/Writing Skills. ..... 6
Must include courses from two different departments
Group B-Humanities/Fine Arts .....  3
Group C-History/Social Sciences ..... 6
Must include PSYC 201 and a course from another department
Group D-Natural and Biological Sciences/Mathematics ..... 14
Must include an approved 3-credit MATH course at the 100 -leve orhigher, BISC course with lab, NTDT 200, and natural science with lab
Additional credits from Groups A-D9
MAJOR REQUIREMENTS (minimum grade C- in each)
HESC 210 Safery, First Aid, and Emergency Care ..... 3
HESC 214 Wellness: A Way of Life ..... $\begin{array}{r}3 \\ + \\ \hline\end{array}$HESC 220 Anatomy and Physiology
HESC 350 Basic Concepts in Kinesiology
BiomechanicsHESC 4303
HESC 430 Physiology of Activity$\begin{array}{r}4 \\ \hline\end{array}$
CONCENTRATION REQUIREMENTS (minimum grade $C$ - in each)
HESC 235 - Professional Transitions3
HESC 276 Personal Computers in HPER ..... 2
HESC 300 Issues in Physical Activity and Sports ..... 3
HESC 305 Fundamentals of Athletic Training ..... 3
HESC 324 Measurement and Evaluation
or
HESC 400 Research Methods ..... 3
HESC 342 Survey in Adaptive Physical Education ..... 3
Plus, Option I or Option II below:minimum 30Minor I (15 credits) and Minor II (15 credits)or
Option IIminimum 30
Minor I (15 credits) and Area of Study ( 15 credits)
With course work in the Area of Study to be developed with a depart-ment academic advisor and approved by the Chair of the Health \& Exer-cise Sciences Department

## ELECTIVES

After required courses are completed, sufficient elective credits must be taken to meet the minimum credifs required for the degree120
DEGREE: BACHELOR OF SCIENCE
MAJOR: HEALTH AND PHYSICAL EDUCATION
CURRICULUM ..... CREDITS
See University and Department requirements (page 172) for additional degree requirements.
BREADTH REQUIREMENTS
Group A-Communicotion/Writing Skills ..... 3
Group B-Humanities/Fine Arts ..... 3
Group C-History/Social Sciences ..... 3
Must include PSYC 201
Group D-Natural and Biological Sciences/Mathematics. ..... 10
Must include an approved 3-credit MATH course at the 100 -level orhigher, and a BISC course with lab, and NTDT 200
Additional credits from Groups A-D3
MAJOR REQUIREMENTS (minimum grade C - in each)
EDUC 400 Student Teaching ..... 9
EDUC 413 Educational Psychology - Social Aspects ..... 3
EDUC 419 Diversity in the Classroom .....  3
(fulfills University multicultural requirement) ..... 1EDUC 420 Reading in the Content Area
EDUC 430 Classroom Management 1
Students must have a minimum cumulative g.p a of 2.500 , a g.p. a. in themajor of at least 2.750, and musi apply to student teach at least onesemester in advance.
HESC 120 Lifeguard Training ..... 1-2
HESC 121 Water Safety Instruction
HESC 139 Curriculum in Physical Education ..... 3
HESC 140 Fundamental Skills Analysis .....  3
HESC 141 Adventure Challenge and Ouidoor RecreationHESC 143 Skills, Techniques and Knowledge of Stunts,Tumbling and Gymnastics
HESC 210 Safety, First Aid and Emergency CareHESC 214 Wellness: A Way of Life
Anatomy and PhysiologyHESC 230 Group Facilitation Skills in Health and Physical EducationHESC 250 Motor DevelopmentHESC 251 Skills, Techniques and Knowledge of Rhythms and DanceHESC 252 Lifetime Leisure ActivitiesHESC 255 Skills, Techniques and Knowledge of Racquet SportsHESC 275 Tactical Approach to Teaching SportsHESC 276 Personal Computers in Health,Physical Education and Recreation
HESC 300 Issues in Physical Activity Studies and Sports Issues in Physical Activity Studies and Sports ..... 3
HESC 319 Health-Related Fitness3
HESC 324 Measurement and Evaluation
HESC 324 Measurement and EvaluationHESC 325 Instructional Strategies for Human SexualityHESC 330 Teaching Community and Mental Health..HESC 332 Health Behavior Theory and AssessmentHESC 342 Survey in Adaptive Physical Education/RecreationHESC 370 Practicum in Methods of Elementary Physical EducationHESC 380 Practicum in Methods of Secondary Physical EducationHESC 426 Biomechanics 1HESC 426HESC 430 Physiology of ActivityHESC 431 Physiology of Activity LabHESC 46.5Teaching Seminar in HealitStudents must have completed HESC 214, HESC 315, and HESC 325prior to enrolling in HESC 414In order to apply for Upper Division Clearance and enroll in methods courses,students must have completed all HESC and EDUC required courses exceptHESC 430, HESC 431, HESC 426, EDUC 420, EDUC 430, EDUC 400, andHESC 465 Students must have a minimum g pa of 2750 in the major and2500 overall, and have completed PRAXIS I with a passing score.CREDITS TO TOTAL124
DEGREE: BACHELOR OF SCIENCE MAJOR: HEALTH BEHAVIOR MANAGEMENT CONCENTRATION: FITNESS MANAGEMENT
CURRICULUM ..... CREDITSSee University and Department requirements (page 172) foradditional degree requirements.
BREADTH REQUIREMENTS
Group A-Communication/Writing Skills. ..... 6
Must include courses from at least two departmentsGroup B-Humanities/Fine Arts3
Group C-Hisfory/Social Sciences ..... 6
Group D-Natural and Biological Sciences/Mathematics ..... 13
Must include an approved 3-credit MATH course at the 100 -leve or higher, BISC with lab, NTDT 200 and STAT 200 ..... 6
MAJOR REQUIREMENTS (minimum grade C - in each)
FREC 201 Records and Accounts ..... 3
ACCT 200 Survey of Accounting ..... 4
BUAD 100 Introduction to Busines ..... 3
HESC 155 Personal Health Management: An Approach for a Lifetime ..... 3

| HESC 200 | Issues in Health Behavior Management |
| :---: | :---: |
| HESC 210 | Safery, First Aid and Emergency Care |
| HESC 332 | Health Behavior Theory and Assessment |
| HESC 335 | Health and Aging |
| HESC 342 | Survey in Adaptive Physical Education |
| HESC 354 | Seminar in Fitness Management |
| HESC 400 | Research Methods |
| HESC 422 | Organization and Administration of Leisure Services |
| HESC 464 | Internship |
| CONCENTRATION REQUIREMENTS (minimum grade C - in each) |  |
| HESC 220 | Anatomy and Physiology ............................. ....... |
| HESC 263 | Leadership Practicum |
| HESC 305 | Fundamentals of Athletic Training |
| HESC 320 | Strength and Conditioning |
| HESC 329 | Dynamics of Team Problem Solving |
| HESC 350 | Basic Kinesiology |
| HESC 430 | Physiology of Activity . ... ....... ............... ............. 3 |
| HESC 431 | Physiology of Activity Lab |
| HESC 432 | Basic Exercise Prescription |
| HESC 445 | Concepts of Physical Fitness Testing |
| HESC 490 | Development of Health Promotion Programs |
| NTDT 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. |  |
| CRED | OTAL A MINIMUM OF 120 |

DEGREE: BACHELOR OF SCIENCE
MAJOR: HEALTH BEHAVIOR MANAGEMENT CONCENTRATION: RECREATION AND PARK ADMINISTRATION CURRICULUM ..... CREDITS
See University and Department requirements (page 172) for additional degree requirements.
Group A-Communication/Writing Skills ..... 6
Must include courses from at least two departments.
Group B-Humanities/Fine Arts ..... 6
Group C-Hisfory/Social Sciences ..... 6Must include PSYC and SOCI courses
Group D-Natural and Biological Sciences/Mathematics ..... 10
Must include an approved 3 -credit MATH course at the 100 -level o higher and STAT 200
Additional credits from Groups A-D ..... 9
MAJOR REQUIREMENTS (minimum grade $C$ - in each) ..... 3
or
ACCT 200 Survey of Accounting ..... 4
BUAD 100 Introduction to Business ..... 3
Personal Health Management: An Approach for a LifetimeHESC 200 Issues in Health Behavior ManagementHESC 210 Safery, First Aid and Emergency CareHESC 332 Health Behavior Theory and AssessmentHESC 335 Health and Aging3
3HESC 342 Survey in Adaptive Physical Education
HESC 354 Seminar in Fitness Managemen
400 Research MethodsHESC 422 Organization and Administration of Leisure Services
HESC 464 Internship3CONCENTRATION REQUIREMENTS (minimum grade $C$ - in each)
HESC 207 Introduction to Recreation and Sport Management .....  3
HESC 261 Programming and Leadership .....  3
HESC 302 Practicum in Sport Management/Recreation ..... 1
3
Plus, 18 credits reflecting a sub-discipline in recreation/leisure chosenunder the direction of the faculty advisor and submitted for approval nolater 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 degreeCREDITS TO TOTAL A MINIMUM OF120

## DEGREE: BACHELOR OF SCIENCE MAJOR: HEALTH BEHAVIOR MANAGEMENT CONCENTRATION: SPORT MANAGEMENT

CURRICULUM ..... CREDITS

See University and Department requirements (page 172) for additional degree requirements.

## BREADTH REQUIREMENTS

Group A-Communication/Writing Skills ..... 6
Must include courses from at least two departments
Group B-Humanities/Fine Arts ..... 6
Group C-History/Social Sciences ..... 6
Must include PSYC and SOCl courses.
Group D-Natural and Biological Sciences/Mathematics ..... 10
Must include an approved 3-credit MATH course at the 100 -level orhigher and STAT 200
Additional credits from Groups A-D ..... 9
MAJOR REQUIREMENTS (minimum grade C - in each)
FREC 201 Records and Accounts ..... 3
ACCT 200 Survey of Accounting ..... 4
BUAD 100 Introduction to Business. .....  3
HESC 155 Personal Health Management: An Approach for a Lifetime
HESC 200 Issues in Health Behavior Management. ..... 3
HESC 210 Safety, First Aid and Emergency CareHESC 332 Health Behavior Theory and AssessmentHESC 335 Health and AgingHESC 342 Survey in Adaptive Physical EducationSurvey in Adaptive Physical Educain
Seminar in Fitness ManagementHESC 400 Research Methods
HESC 422 Organization and Administration of Leisure Services3
3
Internship HESC 4649
CONCENTRATION REQUIREMENTS (minimum grade C - in each)
COMM 245 Mass Communication and Cultur3
ECON 100 Economic Issues and PoliciesFINC 200 Fundamentals of FinanceHESC 207 Iniroduction to Recreation and Sport ManagementHESC 261 Programming and LeadershipPracticum in Sport Management/RecreationHESC 437 Sport Marketing3
3
HESC 347 Legal Aspects of Sport Management
ELECTIVES
After required courses are completed, sufficient elective credits must betaken to meet the minimum credits required for the degree120

## REQUIREMENTS FOR A 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 Safety, First Aid, and Emergency Care............... ... ........ 3
HESC 220 Anatomy and Physiology .. ...........
HESC 320 Principles of Strength and Conditioning
HESC 390 Principles of Coaching
3
.
HESC 390 Principles of Coaching 3
HESC 440 Strategies for Athletic Peak Performance ........................... 3


## REQUIREMENTS FOR A MINOR IN <br> 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 idenifified 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 426 Biomechanics I
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 Basic Exercise Prescription ........
HESC 440 Strategies for Athletic Peak Performance
HESC 447 Advanced Topics in Strength and Conditioning $\quad 3$
HESC 462 Practicum in Strength and Conditioning
NTDT 310 Nutrition and Activity.

## 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 Mawı Ave., Suite 670, Chicago, IL 60631-3415; telephone 773-714-8880). The fouryear 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, 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 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-) ............. 3
Three credits in an approved course or courses stressing................................. 3
multicultural, ethnic, and/or gender-related content (see p 57)

## MAJOR REQUIREMENTS

Writing: (minimum grade $\mathrm{C}-1$
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 affer 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 83 )
One of the following
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 Geomerry and Calculus A
Successful performance on the college proficiency exam ( 0 credits awarded)

## Breadth Requirements

(follow College of Arts and Science standards, See page 85.)
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 310 Informaiion Technologies and Communication Skills .................. 2

MEDT 375 Clinical Laboratory: Principles and Statistics ... ................ 2


CREDITS TO TOTAL A MINIMUM OF 123

## 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, Nutsing Administration, Clinical Nurse Specialist, and a combined Clinical Nurse Specialist/Specialty Nurse Practitioner option.

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 fully accredited by the National League for Nursing Accrediting Commission and has provisional 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. The second, third and fouth years of study include clinical and nonclinical nursing courses as well as elective courses. The Department of Nursing uses many healthcare agencies in 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 acioss the life span. Students graduate as nurse generalists with experiences in pediatric, matemity, 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

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

## 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

## 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 30 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 302-831-2193 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/accelerated.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.

## DEGREE: BACHELOR OF SCIENCE IN NURSING MAJOR: NURSING

## CURRICULUM

CREDITS

## UNIVERSITY REQUIREMENTS

ENGL 110 Critical Reading and Writing (minimum grade C-)
Three credits in an approved course or courses stressing. ............. .... ..... .... 3 multicultural, ethnic, and/or gender-related content (see p. 57)
MAJOR REQUIREMENTS
BISC 207 Introductory Biology I ....................................................... 4
BISC 276 Human Physiology ............................................... . 4
BISC 300 Introduction to Microbiology ..... ....... . .... .......................... 4

CHEM 106 Elementary Bioorganic Chemistry ...... .............................. 5
NTDT 200 Nutrition Concepts .............................................. 3
PHYT 267 Anatomy ...........
STAT 200 Basic Statistical Practice
Second Writing Course .
Pathways Course/Elective
3
Pathways Course/Elective
Creative Arts/Humanities .... ...... ... .. . .. .... ....... .. ............... ........ ..... 3
Culture/Institutions Over Time

| 3 |
| :--- |


PSYC 201 General Psychology ..... ................................. ...... ............ 3
IFST 201 Life Span Development ........ . ......... .... ... . ............ ............ 3
NURS 100 New Student Connections. ....... ............ ...................... 1
NURS 220 Concepts of Nursing Practice ... ....... . ..................... ...... 3
NURS 222 Pharmacology
NURS 230 Foundations of Nursing
NURS 240 Scientific Basis of Nursing
NURS 352 Nursing Care of Adults 1.
NURS 353 Clinical Applications: Adult I
NURS 354 Psychosocial Nursing
NURS 355 Clinical Applications: Psychosocial Nursing
NURS 356 Nursing Care: Children/Families ............ .............................. 2
NURS 357 Clinical Applications: Children/Families .................................. 3
NURS 358 Nursing Care: Childbearing ....................................... 2
NURS 359 Clinical Applications: Childbearing Family . .............. 3
NURS 362 Research Concepts in Health Care. ... .... ... ... .............. ... 3
NURS 411 Topics in Health Care Delivery … .......... ...................... 3
NURS 452 Nursing Care of Adults II ............ ...... ....................................... 3
NURS 453 Clinical Applications: Adults II .................................................... 3
NURS 454 Nursing of Populations ..................................................... 2
NURS 455 Clinical Applications: Community … ............................... 4
NURS 474 Professionalism in Nursing Practice . ......... ... ... ............ 2
NURS 475 Senior Preceptorship ... .... .... ... ........... . ... .. ........... ... 6

## 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

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 Department of Nursing offers a separate 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 (NLNAC) 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 nusing 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 25 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/DSP

## DEGREE: BACHELOR OF SCIENCE IN NURSING

 MAJOR: BACCALAUREATE FOR THE REGISTERED NURSE (BRN) CURRICULUM
## UNIVERSITY REQUIREMENTS

ENGL 110 Critical Reading and Writing (minimum grade C-) ......... 3
Three credits in an approved course or courses stressing ..................... 3 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) chemistry, (4) anatomy and physiology, and (5) nutrition.
STAT 200 Basic Statistical Practice ..... 3
English course (second English composition course) ..... 3
Literature course. ..... 3
Philosophy course ..... 3
Psychology course ..... 3
Sociology course ..... 3
3
Restricted elective chosen from the following ..... 3
Art, Art History, History, Philosophy, Music, Theatre, Comparative Liter-ature, Black American Studies, Economics, Political'Science, Women'sStudies, Foreign Languages and Literatures, Linguistics, and English
NURS 312 Pathophysiology ..... 4
NURS 314 Psychopathology ..... 3
NURS 340 Current Perspectives in Professional Nursing ..... 2
NURS 342 Nursing Informatics ..... 2
NURS 343 Transition to Baccalaureate Nursing Education2
NURS 344 Wellness/Health Assessment ..... 2
NURS 405 Introduction to Nursing Research ..... 2
3
NURS 411 Topics in Health Care Delivery. ..... 1
NURS 441 Learning Lab: Health Assessment
NURS 442 Community Health Nursing ................... ..... 1
3
NURS 443 BRN Role Practicum ..... 3
NURS 445 Nursing Research Applications ..... 2
ELECTIVES
After required courses are completed, sufficient elective credits must betaken to meet the minimum credits required for the degree125

## 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

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 section of the Catalog for information on the Dietetic Internship Program.

The Applied Nutrition major is designed for the student who can creatively combine the study of nutition with other academic areas The curriculum is flexible so that a focus such as Gerontology, Food Service Management, or Fitness may be incorporated. 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 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 prospects for employment and obtaining dietetic 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 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 focussing 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

A nthropology (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 DIETETICSStudents 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 ..... CREDITS

## UNIVERSITY REQUIREMENTS

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

multicultural, ethnic, and/or gender-related content (see p. 57)

## MAJOR REQUIREMENTS

Humanities electives
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
ISC 207/208 Introduciory Biology I and II 4-8
BISC 276 Human Physiology
... 4
Students desiring to fulfill a Biology minor should take BISC 207, 208 and 276.
ECON 100 Economic Issues and Policiesor
ECON 151 Introduction to Microeconomics: Prices and Markets ..... 3
PSYC 201 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
Succe 解tered by Department of Mathematical SciencesA minimum grade of C - must be achieved for credits to count toward thefulfillment of 25 credits in NTDT; a minimum grade of C - in 200 -levecourses must be achieved to proceed to upper-level courses; only 300 -levelcourses and a maximum of four credits of Special Problems/IndependentStudy (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 Merhods: Nutrition and Food ..... 3
NTDT courses (300-level or higher) ..... 9
3
NTDT Restricted Elective (minimum grade of C- must be achieved)
One of the following:
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 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
DEGREE: BACHELOR OF SCIENCE
MAJOR: DIETETICS
CURRICULUM ..... CREDITS
UNIVERSITY REQUIREMENTS
ENGL 110 Critical Reading and Writing (minimum grade C -) ..... 3
Three credits in an approved course or courses stressingmulticultural, ethnic, and/or gender-related content (see p. 57)
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
4
BISC 300 Introduction to Microbiology
EĊON 100 Economic Issues and Policies
ECON 151 Introduction to Microeconomics: Prices and Markets ..... 3
PSYC 201 General Psychology ..... 3
One of the following courses ..... 3
SOCl 201 Introduction to SocietySOCI 202 Social DevianceSOCI 203 The Individual and Society
Urban Communities
Social Problems
Population Problems
SOCl 242 Society and the Health Professions
Society, Politics and Health Care
PSYC 303 Introduction to Social Psychology
SOCl 310 Sociology of Healthcare
BUAD 309 Management and Organizational Behavior ..... 3
FOSC 305 Food Science (minimum grade C-) ..... 3
Statistics course selected from: STAT 200, PSYC 309, FREC 4083
MATH 114 Elementary Mathematics and Statistics. ..... 3
Successful performance on the Proficiency Test in Mathematics admin-istered by Department of Mathematical Sciences

A minimum grade of C - must be achieved for credits to count toward the fulfillment of 41 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 requirement1
NTDT 103 Introduction to Nutrition Professions
NTDT 200 Nutrition ConceptsQuantity Food Production and Servic
NTDT 322 Management of Food and Nutrition ServicesNutritional Counseling
Nutritional Counseling
NTDT 400 Macronutrients$\begin{array}{r}3 \\ \square \\ \hline\end{array}$
NTDT 401 Micronutrients ..... 3
Dietefics Seminar
NTDT 421 Nutrition Assessment Merhods1
3
NTDT 445 Teaching Methods: Nutrition and Foods .....  3NTDT 450 Medical Nutrition Therapy INTDT 451 Medical Nutrition Therapy II3
NTDT 460 Community Nutrition$\begin{array}{r}3 \\ 3 \\ \hline\end{array}$
NTDT Restricted Elective (minimum grade of C - must be achieved) ..... 3
One of the following
NTDT 305 Nutrition in the LifeSpanNTDT 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 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
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 .....  3
multicultural, ethnic, and/or gender-related content (see p. 57)
MAJOR REQUIREMENTS
Humanities electives ..... 6
CHEM 103/104 General Chemistry .....  8
CHEM 214/216 Elementary Biochemistry with Lab ..... 4
CHEM 220/221 Quantative Analysis I with Lab4
CHEM 321/322 Organic Chemistry .....  8
BISC 207/208 Introductory Biology I and II .....  8
BISC 276 Human Physiology$\begin{array}{r}. \\ \hline\end{array}$
BISC 300 Introduction to Microbiology
4
4
PHYS 201 Introductory Physics ! ..... 4
ECON 100 Economic Issues and Policiesor
ECON 151 Introduction to Microeconomics: Prices and Markets ..... 3
Social Science electives ..... 9
FOSC 305 Food Science (minimum grade C-) .....  3
FREC. 408 Research Methods ..... 3
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 thefulfillment of 30 credits in NTDT; a minimum grade of C - in 200 -level cours-es 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 $\times 66$ ) may count toward the fulfillment of this requirement.
$\begin{array}{lll}\text { NTDT } 200 & \text { Nutrition Concepts } \\ \text { NTDT } 201 & \text { Food Concepts }\end{array}$
NTDT 201 Food Concepts..... ....... ............................................ 3
NTD 401 Macronutrients ........................................................... 3

NTDT 450 Medical Nutrition Therapy 1 .................................................. 3
NTDT 451 Medical Nutrition Therapy 11 ............................................ 3
NTDT courses (300-level or higher) ................................................. 6


## 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

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.

