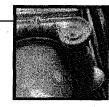
# COLLEGE OF HEALTH AND NURSING SCIENCE



# College of Health and Nursing Sciences

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

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 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 park administration. In addition, there are graduate degree programs in biomechanics and movement science, human nutrition, nursing, and physical education, medical technologies and movement science, human nutrition, nursing, and physical education, and a post-baccalaureate internship program for registered dietitians.

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

# ADVISEMENT

**S**tudents are assigned a faculty advisor in their major department, who will 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.

Students may also schedule appointments with professional advisors in the College's Advisement Resource Center, located in McDowell Hall. Advisement Resource Center staff will assist students with issues such as withdrawal due to illness or other difficulty, registration problems, and other special requests that require approval by the dean. The Advisement Resource Center is open weekdays from 9 a.m. to 4 p.m.; for more information call (302) 831-2381.

- Nursing
- Policies
- Licensure
- B.S.N.
- B.R.N.
- Nutrition and Dietetics
  - Applied Nutrition
  - Dietetics
  - Nutritional Sciences

# HONORS OPPORTUNITIES AND DEAN'S SCHOLAR PROGRAM

**S**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.

# **BIOMECHANICS AND MOVEMENT SCIENCE**

The Biomechanics and Movement Science (BIOMS) program is a graduate level interdisciplinary program that combines faculty and physical resources from several different units including the Departments of Mechanical Engineering, Physical Therapy, Health and Exercise Sciences, and Computer and Information Sciences, as well as the Applied Sciences and Engineering Laboratory and the A.I. duPont Hospital for Children. By implementing an interdisciplinary approach involving faculty members with backgrounds in sport biomechanics, physical therapy, applied physiology, engineering, and computer science, students are afforded a diverse educational environment. In addition, the collective research laboratories of the participating units provide outstanding facilities. Programs of study are created to serve the interests of both the student and sponsoring faculty member, and may focus on topics in the areas of biomechanics, motor control, applied physiology, exercise physiology, and rehabilitation technology. Students enrolled in the graduate program come from a variety of undergraduate disciplines including all areas of engineering, computer science, physical therapy, biology, physics, mathematics, and exercise science. Undergraduate students interested in pursuing graduate work in biomechanics should consider prerequisite undergraduate coursework in anatomy, physiology, linear algebra, calculus, and computer programming.

# **HEALTH AND EXERCISE SCIENCES**

The activities of the Department of Health and Exercise Science include elective lifetime activity courses, intramural sports, four degree programs, and a minor in Coaching Science.

# LIFETIME ACTIVITIES PROGRAM

A varied activity program featuring more than twenty different offerings each semester is available to all students on a credit basis. Courses are provided for all levels of ability and interests including beginners, intermediate, and advanced.

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 physical education program with four Bachelor of Science degree options: health and physical education, physical education studies, athletic training, 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 Health and Physical Education (HPE) program is approved by the National Association of State Directors of Teacher Education and Certification (NASDTEC). Students who complete program requirements are eligible for teacher certification through the individual states in the NASDTEC agreement.

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

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

CREDITS

# DEGREE: BACHELOR OF SCIENCE IN ATHLETIC TRAINING MAJOR: ATHLETIC TRAINING EDUCATION PROGRAM

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. 20)

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

CURRICULUM

UNIVERSITY REQUIREMENTS

SKILL REQUIREMENTS

Second Writing Course

# Mathematics 2 BREADTH REQUIREMENTS 2 Area A—Communication Skills 6 A minimum of 6 credits with at least two departments represented; courses may be selected from the following departments: English 6

3

3

6

3

(writing/composition courses), Foreign Languages and Literatures (language/communication courses), Communication, Linguistics and Speech classes (sign language courses).

# Area B —Humanities and Fine Arts

A minimum of 3 credits; course(s) may be selected from: Art, Art History, Comparative Literature, English (literature), Music, Philosophy, Theatre and approved courses from Textiles, Design and Consumer Economics. **Area C—Bioloaical Sciences** 

## Area D—History and Social Science

A minimum of 6 credits with at least two departments represented: Anthropology (except physical and biological), Black American Studies, Criminal Justice, Economics, Geography (except physical and meteorology), History, Legal Studies, Political Science and International Relations, Psychology, Sociology, Women's Studies, and specific courses from Individual and Family Studies.

#### Area E - Natural Science and Mathematics

A minimum of 3 credits; 'course(s) may be selected from : Anthropology (physical and biological), Chemistry, Computer and Information Science, Entomology, Geography (physical and meteorology), Geology, Health Sciences (natural science courses), Mathematics (excluding MATH 251 & 252), Medical Technology, Physics, Plant Science, Science, Statistics, and specific courses from the Department of Nutrition and Dietetics, the College of Engineering and the College of Marine Studies.

## MAJOR REQUIREMENTS

Professiona	l Studies	
NTDT 200	Nutrition Concepts	3
PSYC 201	General Psychology	3
BISC 106/1	16 Elementary Human Physiology and Lab	
or		
BISC 276	Human Physiology	4
STAT 201	Introduction to Statistics I	. 3
CSCC 241	Ethical Issues in Health Care	. 3
Academic S		
HPER 210	Safety, First Aid and Emergency Care	3
HPER 214	Wellness: A Way of Life	3
HPER 220	Anatomy and Physiology	3
HPER 276	Personal Computers/HPER	2
HPER 305	Fundamentals of Athletic Training	
HPER 320	Principles of Strength/Conditioning	3
HPER 350	Basic Concepts in Kinesiology	3
HPER 395	Sports Medicine Pharmacology	3-
HPER 405	Program Development/Athletic Injury Rehabilitation	., 3
HPER 407	Prevention/Recognition/Athletic Injuries	3.
HPER 409	Therapeutic Modalities	
HPER 420	Functional Human Anatomy	
HPER 426	Diomechanics of opons	
HPER 430	Physiology of Activity	3
HPER 431	Physiology of Activity Lab	
HPER 448	Organization & Administration/Athletic Training	3
HPER 449	Advanced Topics in Sports Medicine	3
HPER 480	Practicum in Athletic Training I	3
HPER 481	Practicum in Athletic Training II	3
ELECTIVE	»S	17
A G	I according to the second s	

After required courses are completed sufficient elective credits must be taken to meet the minimum credit requirement for the degree. Students are encouraged to select advanced and/or specialized courses in the core subject matter areas and courses in biology, chemistry, physics, research methods, etc. Students interested in pursuing advanced degrees in allied health care professions should select the appropriate required courses for admission.

# CREDITS TO TOTAL A MINIMUM OF ...... 120

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 4	ENGL 1103
HPER 310 3	MATH 3
HPER 220 3	HPER 305 3
HPER 276 3	HPER 214 3
Elective	General Studies
16	15

(2) Minimal overall cumulative index of 2.75;

- (3) Academic performance in the following courses will be evaluated for admission consideration into the B.S. in Athletic Training: BISC 106 & 116, ENGL 110, HPER 210, HPER 220, HPER 276, HPER 305, HPER 214.
- (4) Complete a 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 Education Program Admission Recommendation Form from the program director.
- (6) Completion of N A.T.A. taping checksheet;
- (7) Successful interview with the Athletic Training Education Program Director and faculty During the interview, students will be evaluated by the Athletic Training Education 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.

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 (January 15th and June 15th). Acceptance/rejection letters will be mailed to each candidate by February 1 and July 1, respectively.

Students interested in transferring from another institution, another College at the University of Delaware or another major within the Department of Health and Exercise Science must meet University and College of Health and Nursing Sciences transfer requirements and complete the same requirements as freshmen in the Pre-Athletic Training Program.

Students enrolled in the University of Delaware Athletic Training Education 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 highrisk 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, wrestling, 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 Education 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.
- 4. 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 five concentrations: 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.
- 2. Successful completion of the following courses: HPER 210 (3 credits); HPER 214 (3 credits); HPER 220 (3 credits); HPER 276 (3 credits); HPER 305 (3 credits); and Biological Sciences (BISC) course with lab (4 credits).
- 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 Physical Education Advisement Center, 112A Carpenter Sports Building.
  - a. Only students matriculated in the College of Health and Nursing Sciences may apply for admission to the concentrations.
  - b. Meeting the minimum admission requirements does not guarantee admission to the concentration. Offers of admission, particularly in Figure Skating Science, Fitness Management, and Strength and Conditioning are presented on a competitive basis to those individuals who are most qualified.
- 4. Four of the concentrations have additional requirements, as follows:
- a. 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.
- b. 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 interview (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.

- c. 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.
- d. 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.

# DEGREE: BACHELOR OF SCIENCE IN PHYSICAL EDUCATION STUDIES MAJOR: EXERCISE AND SPORT SCIENCE CONCENTRATION: EXERCISE PHYSIOLOGY

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 20)	
SKILL REQUIREMENTS	
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 at "Satisfies Arts and Science second writing course."	
Mathematics Course	
MATH 221 Calculus I	
<b>BREADTH REQUIREMENTS</b> Students must complete a total of 35 credits in areas A through E, with a minimum of 6 credits from Area A, 3 credits from Area B, 4 credits from Area C, 6 credits from Area D, and 7 credits from Area E. The remain- ing 9 of the 35 credits may be taken in any of the five areas.	
Area A-Communication Skills	
Six credits from at least two of the following departments: English (writ- ing/composition courses), Communication and Foreign Languages and Literatures (language/communication), Linguistics, and Manual Commu- nication (sign language).	
Area B—Humanities and Fine Arts	
A minimum of three credits from at least two of the following depart- ments: Art, Art History, Comparative Literature, English (literature), For- eign Languages and Literatures (literature), Music, Philosophy and Theatre. Specific courses from the Department of Consumer Studies.	
Area C—Biological Sciences	4
BISC 207 Introductory Biology I	4
Area D—History and Social Science	6
PSYC 201 General Psychology PSYC 325, 334, or 350 Additional credits from the following departments: Anthropology (except physical and biological), Black American Studies, Criminal Justice, Eco-	

Additional creats from the following departments: Anthropology (except physical and biological), Black American Studies, Criminal Justice, Economics, Geography (except physical and meteorology), History, Political Science and International Relations, Psychology, Sociology, and Women's Studies. Specific courses from Individual and Family Studies).

CREDITS TO	O TOTAL A MINIMUM OF 120
General Ele	ctives
or HPER 434	Exercise Test Technology
or HPER 442 HPER 426 HPER 432	Vertebrate Morphology
Within the I HPER 353 HPER 420	Department Seminar in Exercise Physiology
or BISC 306 CHEM 104 PHYS 201 PHYS 202 STAT 201	General Physiology       4         General Chemistry       4         Introductory Physics I       4         Introductory Physics II       4         Introductory Statistics I       3
External to BISC 208 BISC 276	RATION AREA the College Introductory Biology II
HPER 300 HPER 305 HPER 324 HPER 342 HPER 350	Issues in Physical Activity Studies and Sports       3         Fundamentals of Athletic Training       3         Measurement and Evaluation       3         Survey in Adaptive Physical Education/Recreation       3         Basic Concepts in Kinesiology       3
HPER 276 HPER 290 HPER 291	Personal Computers in Health,       2         Physical Education and Recreation         Physiology of Activity         3         Physiology of Activity Lab.
MAJOR RE Academic St HPER 210 HPER 214 HPER 220	Safety, First Aid, & Emergency Care 3 Wellness: A Way of Life 3 Anatomy and Physiology 3
Anthropology gy, Geograph ural science a (including Astr logical), Soil S	General Chemistry       4         dits from:       6         (physical and biological), Chemistry, Engineering, Entomolo-       6         y, (physical and meteorology), Geology, Health Sciences (nat-       6         rea), Mathematics (except MATH 251, 252), Physics       6         onomy), Physical Science, Plant Science, Psychology (physio-       6         icience, Statistics and Computer Science Specific courses from       1         of Nutrition and Dietetics and the College of Marine Studies       6
NIDI 200	Nutrition Concepts

Area E—Natural Science and Mathematics

# DEGREE: BACHELOR OF SCIENCE MAJOR: EXERCISE AND SPORT SCIENCE CONCENTRATION: FIGURE SKATING SCIENCE

#### CREDITS 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. 20) SKILL REQUIREMENTS 3 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 at "Satisfies Arts and Science second writing course. Must be an approved course at the 100-level or higher. BREADTH REQUIREMENTS 35 Students must complete a total of 35 credits in areas A through E, with a minimum of 6 credits from Area A, 3 credits from Area B, 4 credits from Area C, 6 credits from Area D, and 7 credits from Area E. The remain-ing 9 of the 35 credits may be taken in any of the five areas. Area A—Communication Skills A minimum of six credits from at least two of the following departments: English (writing/composition courses), Communication and Foreign Languages and Literatures (language/communication), Linguistics, and Manual Communication (sign language)

Area B—Humanities and Fine Arts 3	Mathematics Course
A minimum of three credits from the following departments: Art, Art His-	Must be an approved course at the 100-level or higher.
tory, Comparative Literature, English (literature), Foreign Languages and	BREADTH REQUIREMENTS
Literatures (literature), Music, Philosophy and Theatre, and specific cours-	Students must complete a total of 35 credits in areas A t
es from Consumer Studies.	minimum of 6 credits from Area A, 3 credits from Area
Area C—Biological Sciences	Area C, 6 credits from Area D, and 7 credits from Area
Minimum of 4 credits of Biological Sciences (BISC) courses with lab.	ing 9 of the 35 credits may be taken in any of the five c
Area D—History and Social Science       6         PSYC 201       General Psychology       3         A minimum of three additional credits from the following departments:       3         Anthropology (except physical), Black American Studies, Criminal Justice, Economics, Geography (except physical and meteorology), History,	Area A—Communication Skills. Six credits from at least two of the following areas: Engl position courses), Communication, Foreign Languages a guage/communication), Linguistics, and Manual Comm language)

3 A

3

Political Science and International Relations, Psychology (except physio-logical), Sociology and Women's Studies, as well as specific courses from the Individual and Family Studies

# Area E—Natural Science and Mathematics

Area E-Natural Science and Mathematics NIDT 200 Nutrition Concepts Science course with Lab chosen from the following departments: Anthropology (physical and biological), Chemistry, Computer and Infor-mation Science, Engineering, Entomology, Geography, (physical and meteorology), Geology, Health Sciences (natural science area), Mathe-matics (except MATH 251, 252), Physics (including Astronomy), Physical Science, Plant Science, Psychology (physiological), Soil Science, Statis-tics, as well as specific courses from the Department of Nutrition and Dietetics and the College of Marine Studies.

# MAJOR REOUIREMENTS

## **External to the College**

## Academic Studies

HPER 210	Safety, First Aid, and Emergency Care. Wellness: A Way of Life	3
HPER 214	Wellness: A Way of Life	3
HPER 220	Anatomy and Physiology	-3
HPER 276	Personal Computers in Health, Physical	2
	Education and Recreation	
HPER 290	Physiology of Activity	3
HPER 291	Physiology of Activity Lab.	1
HPER 300	Issues in Physical Activity Studies and Sport	3
HPER 305	Fundamentals of Athletic Training	3
HPER 324	Measurement and Evaluation.	3
HPER 342	Survey in Adaptive Physical Education	3
HPER 350	Basic Concepts in Kinesiology	3
CONCENTI	RATION AREA	
HPER 250	Motor Development	3
HPER 260	Leisure Service Programming Recreation Leadership	3
HPER 270	Recreation Leadership	3
HPER 320	Principles of Strength & Conditioning	3
HPER 355	Figure Skating Practicum I	3
HPER 356	Figure Skating Practicum II	3
HPER 360	Psychology of Coaching	1
HPER 426	Biomechanics of Sports	4
HPER 440	Strategies for Athletic Peak Performance	3
HPER 455	Strategies for Athletic Peak Performance Figure Skating Practicum III	3

Figure Skating Practicum IV 3 HPER 456 ELECTIVES 11 After required courses are completed sufficient elective credits must be

taken to meet the minimum credit requirement for the degree.

# CREDITS TO TOTAL A MINIMUM OF ..... 120

Students entering this concentration must have achieved a level of skating proficiency certified by the Director of the Ice Skating Program.

DEGREE: BACHELOR OF SCIENCE	
IN PHYSICAL EDUCATION STUDIES	
MAJOR: EXERCISE AND SPORT SCIENCE	
CONCENTRATION: FITNESS MANAGEMENT	
CURRICULUM	

# UNIVERSITY REOUIREMENTS 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. 20). SKILL REQUIREMENTS Writing Course

	2
ENGL 312 Written Communications in Business	3

3 Students must complete a total of 35 credits in areas A through E, with a ninimum of 6 credits from Area A, 3 credits from Area B, 4 credits from Area C, 6 credits from Area D, and 7 credits from Area E. The remain- ng 9 of the 35 credits may be taken in any of the five areas.	5
Area A—Communication Skills. Six credits from at least two of the following areas: English (writing/ com- position courses), Communication, Foreign Languages and Literatures (lan- guage/communication), Linguistics, and Manual Communication (sign anguage)	6
Area B—Humanities and Fine Arts At least three credits from the following departments: Art, Art History, Com- parative Literature, English (literature), Foreign Languages and Literatures literature), Music, Philosophy and Theatre, and specific courses from the Department of Consumer Studies.	3
Area C—Biological Sciences	4
Ainimum of 4 credits of Biological Sciences (BISC) courses with lab.	
Area D—History and Social Science SYC 201 General Psychology OCI 201 Introduction to Sociology Additional credits from any of the following departments: Anthropology except physical and biological), Black American Studies, Criminal Jus- ce, Economics, Geography (except physical and meteorology), History, olitical Science and International Relations, Psychology (except physio- ogical), Sociology, Women's Studies, and specific courses from Individ- al and Family Studies.	3
Area E-Natural Science and Mathematics	7

NTDT 200 Nutrition Concepts Science course with Lab chosen from the following departments: Science course with Lab chosen from the following departments: Anthropology (physical and biological), Chemistry, Computer and Infor-mation Science, Engineering, Entomology, Geography, (physical and meteorology), Geology, Health Sciences (natural science area), Mathe-matics (except MATH 251, 252), Physics (including Astronomy), Physical Science, Plant Science, Psychology (physiological), Soil Science, Statis-tics, as well as specific courses from the Department of Nutrition and Dietetics and the College of Marine Studies.

## MAJOR REOUIREMENTS

## External to the College

CREDITS

	and counder	
BUAD 301	Introduction to Marketing	3
or BUAD 309 FREC 201	Management and Organizational Behavior Records and Accounts	
Academic	Studies	
HPER 210	Safety, First Aid, and Emergency Care	3

HPER 210	Safety, First Aid, and Emergency Care
HPER 214	Wellness: A Way of Life
HPER 220	Anatomy and Physiology
HPER 276	Personal Computers in Health, Physical
	Education and Recreation
HPER 290	Physiology of Activity
HPER 291	Physiology of Activity Lab
HPER 300	Issues in Physical Activity Studies and Sports
HPER 305	Fundamentals of Athletic Training
HPER 324	Measurement and Evaluation.
HPER 342	Survey in Adaptive Physical Education
HPER 350	Basic Concepts in Kinesiology

# CONCENTRATION AREA

HPER 320 HPER 332	Principles Strength and Conditioning Health Behavior Theory and Assessment	
HPER 354	Seminar in Fitness Management	1
HPER 401	Leadership Practicum	1
HPER 432	Individualized Physical Fitness	
HPER 434	Exercise Test Technology	
HPER 445	Concepts of Physical Fitness Testing	
HPER 452	Principles of Fitness Management	3
HPER 464	Internship in Fitness Management	9
HPER 490	Development of Health Promotion Programs	
ELECTIVE	хs	
Electives		8

# CREDITS TO TOTAL A MINIMUM OF ...... 120

145

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CREDITS

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35

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7

DEGREF:	<b>BACHELO</b>	R OF SCIE	NCF		
	IN PHYSIC	CAL EDUCA	ATION ST	UDIES	
MAJOR:	EXERCISE	AND SPO	RT SCIEN	CE	
CONCEN	TRATION:	PHYSICAL	EDUCAT	ION ST	JDIES
CURRICULU	M				

#### 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. 20)	

# SKILL REQUIREMENTS

#### 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 at "Satisfies Arts and Science second writing course."

Mathematics Course

Must be an approved course at the 100-level or higher.

# BREADTH REQUIREMENTS

Students must complete a total of 35 credits in areas A through E, with a minimum of 6 credits from Area A, 3 credits from Area B, 4 credits from Area C, 6 credits from Area D, and 7 credits from Area E. The remaining 9 of the 35 credits may be taken in any of the five areas

## Area A-Communication Skills.

Six credits from at least two of the following areas: English (writing/ composition courses), Communication, Foreign Languages and Literatures (language/communication), Linguistics, and Manual Communication (sign language)

#### Area B—Humanities and Fine Arts

At least three credits from the following departments: Art, Art History, Comparative Literature, English (literature), Foreign Languages and Literatures (literature), Music, Philosophy and Theatre, and specific courses from the Department of Consumer Studies.

#### Area C—Biological Sciences

Minimum of 4 credits of Biological Sciences (BIS	C) courses with lab	
Area D-History and Social Science		

## PSYC 201 General Psychology

A minimum of three additional credits from any of the following departments: Anthropology (except physical and biological), Black American Studies, Criminal Justice, Economics, Geography (except physical and meteorology), History, Political Science and International Relations, Psychology (except physiological), Sociology, Women's Studies, and specific courses from Individual and Family Studies.

# Area E-Natural Science and Mathematics

NTDT 200 Nutrition Concepts Science course with Lab chosen from the following departments: Anthropology (physical and biological), Chemistry, Computer and Information Science, Engineering, Entomology, Geography, (physical and meteorology), Geology, Health Sciences (natural science area), Mathematics (except MATH 251, 252), Physics (including Astronomy), Physical Science, Plant Science, Psychology (physiological), Soil Science, Statistics, as well as specific courses from the Department of Nutrition and Dietetics and the College of Marine Studies.

#### MAJOR REQUIREMENTS

Academic S	tudies
------------	--------

HPER 210	Safety, First Aid, and Emergency Care 3	
HPER 214	Wellness: A Way of Life	
HPER 220	Anatomy and Physiology	8
HPER 276	Personal Computers in Health,	
HPER 290	Physiology of Activity 3	
HPER 291	Physical Education and Recreation Physiology of Activity	
HPER 300	Issues in Physical Activity Studies and Sports 3	
HPER 305	Fundamentals of Athletic Training	
HPER 324	Fundamentals of Athletic Training 3 Measurement and Evaluation. 3	
HPER 342	Survey in Adaptive Physical Education/Recreation 3	
HPER 350	Basic Concepts in Kinesiology 3	
THER 000	basic concepts in Kinesiology management of the second sec	
CONCENT	RATION AREA	
HPER 235	Professional Transitions 3	
Minor I (15 d	redits) and Minor II (15 credits)	
or		
or		

Option II	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.	
General Electives	16
Sufficient elective credits must be taken to meet the minimum credit requirement for the degree.	
CREDITS TO TOTAL A MINIMUM OF	120
DEGREE: BACHELOR OF SCIENCE IN PHYSICAL EDUCATION STUDIES MAJOR: EXERCISE AND SPORT SCIENCE	
CONCENTRATION: STRENGTH AND CONDITIONING	CREDITS
UNIVERSITY REQUIREMENTS	3
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. 20)	3
· · · · · · · · · · · · · · · · · · ·	
SKILL REQUIREMENTS	~
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 at "Satisfies Arts and Science second writing course."	
Mathematics Course Must be an approved course at the 100-level or higher	3
BREADTH REQUIREMENTS Students must complete a total of 35 credits in areas A through E, with a minimum of 6 credits from Area A, 3 credits from Area B, 4 credits from Area C, 6 credits from Area D, and 7 credits from Area E. The remain- ing 9 of the 35 credits may be taken in any of the five areas.	35
Area A—Communication Skills	
Six credits from at least two of the following areas: English (writing/ com position courses), Communication, Foreign Languages and Literatures (lau guage/communication), Linguistics, and Manual Communication (sign language).	•
Area B—Humanities and Fine Arts	
At least three additional credits from the following departments: Art, Art History, Comparative Literature, English (literature), Foreign Languages and Literatures (literature), Music, Philosophy and Theatre, and specific courses from the Department of Consumer Studies.	
Area C—Biological Sciences	4
BISC 106/116 Elementary Human Physiology and Lab	4
Area D—History and Social Science	6
PSYC 201 General Psychology A minimum of three additional credits from any of the following depart- ments: Anthropology (except physical and biological), Black American Studies, Criminal Justice, Economics, Geography (except physical and meteorology), History, Political Science and International Relations, Psy- chology (except physiological), Sociology, Women's Studies, and specif- ic courses from Individual and Family Studies.	<b>3</b> ,
ic courses from individual and Family Studies.	-

Area E—Natural Science and Mathematics		7
NTDT 200 Nutrition Concepts	с. 2 1. т. т. т. т.	. 3
Chemistry course with Lab		.: 4
A minimum of three credits from any of the following		3
departments: Anthropology (physical and biological), Chemistry, Engi-		
nearing Entomology Geography Inhysical and meteorology) Geology		

neering, Entomology, Geography, Iphysical and meteorology, Geology, Health Sciences (natural science area), Mathematics (except MATH 251, 252), Physics (including Astronomy), Physical Science, Plant Science, Psychology (physiological), Soil Science, Statistics and Computer Science. Specific courses fromNutrition and Dietetics and the College of Marine Studies.

#### MAJOR REQUIREMENTS

External to	the College
NTDT 310	Nutrition & Activity 3
Academic	Studies
HPER 210	Safety, First Aid, and Emergency Care
HPEP 214	Wellness: A Way of Life 3

HPER 220	Anatomy and Physiology	. 3
HPER 276	Personal Computers in Health, Physical	. 2
	Education and Recreation	
HPER 290	Physiology of Activity	. 3
HPER 291	Physiology of Activity Lab.	1
HPER 300	Issues in Physical Activity Studies and Sports	. 3
HPER 305	Fundamentals of Athletic Training	. 3
HPER 324	Measurement and Evaluation.	. 3
HPER 342	Survey in Adaptive Physical Education	. 3
HPER 350	Basic Concepts in Kinesiology	ે 3

# CONCENTRATION AREA

HPER	320	Principles in Strength and Conditioning
HPER	321	Advanced Principles in Strength and Conditioning 4
HPER	322	Weight Room Safety and Design
HPER	323	Theories and Applications of Program Design 3
HPER	354	Seminar in Fitness Management
HPER	390	Principles of Coaching
HPER	416	Practicum in Strength & Conditioning 3
HPER	426	Biomechanics of Sport
HPER	440	Strategies of Peak Athletic Performance 3
HPER	464	Internship in Fitness Management 9
ELEC	CTIVE	S
Electi	ves	$\mathfrak{m}$ , which is a state of the state of t

CREDITS TO TOTAL A MINIMUM OF ...... 120

MAJOR: HEALTH AND PHYSICAL EDUCATION	
CURRICULUM	CREDITS
Superior figures indicate year or years in which the course is normally taken, i.e , <sup>1</sup> freshman year, <sup>2</sup> sophomore year, etc.	
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. 20)	3 <sup>1</sup> -4
COLLEGE REQUIREMENTS (Minimum number of credit hours required	£.)
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 at "Satisfies Arts and Science second writing course."	
Group Dynamics Course	
A course chosen from the following:	
COMM 356 Small Group Communication EDDV 373 Psychology of Human Relationships	
Area A—Communication Skills Three credits from one of the following departments: English writing/composition courses), Communication and Foreign Languages and Literatures.	
Area B—Humanities and Fine Arts	3 <sup>2-4</sup>
Three credits from the following departments: Art, Art History, English (lii erature), Music, Philosophy and Theatre. Specific courses from the Col- ege of Human Resources (Department of Textiles, Design and Consumer conomics).	
Area C—Biological Sciences	
our credits taken in the Department of Biological Sciences	
Area D—History and Social Science	
SYC 201 General Psychology	
FST 401 Foundations of Human Sexuality	
hree additional credits from one of the following departments: Anthropology (except physical), Black American Studies, Criminal Jus tice, Economics, Geography (except physical and meteorology), His- tory, Political Science and International Relations, Psychology and Sociology. Specific courses from the College of Human Resources (Department of Individual and Family Studies)	
Area E—Natural Science and Mathematics	
NTDT 200 Nutrition Concepts	3 <sup>2</sup> 3 <sup>1</sup>

# MAJOR REQUIREMENTS

#### **External to the College**

EDST 201	Education in a Multicultural Society Educational Psychology – Social Aspects	3	1
EDST 304	Educational Psychology – Social Aspects	3	2,3
EDST 305	Educational Psychology - Cognitive Aspects	3	2,3
EDDV 400	Student Teaching	9	4
Students must major of at le	have a minimum cumulative g.p.a. of 2.50, a g.p.a. in the ast 2.75, and have completed all required HPER courses ER 360, HPER 426, HPER 430, and HPER 431 to register for		

## Within the College

Students may take a maximum of two beginning-level HPER 120 activity courses prior to enrolling in a similar activity within the major skill blocks; e.g., if the student feels a weakness in tennis, that person might wish to do a HPER 120 Tennis I course before enrolling in the major block tennis activity. After having completed a particular skill in the major program, students must register for the advanced-level course if desiring to do the same skill in the nonmajors (HPER 120) curriculum; e.g., Tennis II, Self Defense II, etc. Major students are permitted four credits of Physical Education (HPER 120) work under the above guidelines that may be counted toward graduation credit. HPER 140 Fundamental Skills Analysis (minimum grade C-)

under me abc	we goldennes and may be conned toward graduation credit
HPER 140	Fundamental Skills Analysis (minimum grade C-) 2 Movement Education for Children (minimum grade C-) 3
HPER 150	Movement Education for Children (minimum grade C-) 3
HPER 214	Malineau A May of Life Insistence arado C
HPER 220	Anatomy and Physiology (minimum drade La)
HPER 250	Notor Development (minimum drade C-)
HPER 276	Personal Computers in Flealth
	Physical Education and Recreation (minimum grade C-)
HPER 300	Issues in Physical Activity Studies and Sports
	(minimum arade C-)
HPER 310	Safety, First Aid and Emergency Care (minimum grade C-) 3 Methods and Materials in Health Education 3
HPER 314	Methods and Materials in Health Education 3 <sup>3</sup>
	(minimum grade C-)
HPER 315	Methods and Materials in Drug Education (minimum grade C-) $3\frac{2}{3}$
HPER 324	Measurement and Evaluation Implement arade ( -)
HPER 325	Human Sexuality: Methods and Materials (minimum grade C-)
HPER 330	Human Sexuality: Methods and Materials (minimum grade C-) 3 Mental Health (minimum grade C-) 3
HPER 342	Mental Health (minimum grade C-) Survey in Adaptive Physical Education/Recreation 33
	Iminimum grade C-)
HPER 360	Psychology of Cogching (minimum grade C)
HPER 426	
HPER 430	Physiology of Activity (minimum grade C-1
HPER 431	Physiology of Activity Lab (minimum grade C-)
Skill anyment	11.3
HPER 370	Practicum in Methods of Elementary Physical Education 3 <sup>3</sup>
THER STO	Instation menda C1
HPER 380	Practicum in Methods of Secondary Physical Education
HFER 300	(minimum grade C-)
HPER 465	Teaching Seminar in Health/Physical Education
111 LK 405	(minimum grade C-)
<b>c</b> , <b>1</b> , <b>.</b>	
Students must	have a minimum cumulative g.p.a. of 2.50, a g.p.a. in the
325, and IFS	ast 2.75, and have completed HPER 214, HPER 315, HPER I 401 prior to enrolling in HPER 314
Students must	have a minimum cumulative g.p.a. of 2.5, a g.p.a. in the
	ast 2.75, and have completed all skills courses prior to
	PER 370 and HPER 380
ELECTIVE	
Electives	annan an a

CREDITS TO TOTAL A MINIMUM OF ...... 128

## DEGREE: BACHELOR OF SCIENCE IN RECREATION AND PARK ADMINISTRATION MAJOR: RECREATION AND PARK ADMINISTRATION CONCENTRATION: PARKS

# 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. 20).

#### SKILL REQUIREMENTS Writing Course

CURRICULUM

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 CREDITS

3

3

writing courses are normally designated in the semester's Registration Booklet as "Satisfies Arts and Science second writing course "

# Mathematics Course BREADTH REQUIREMENTS

BREADTH REQUIREMENTS 34 Students must complete a total of 34 credits in areas A through D, with a minimum of 6 credits from Area A, 6 credits from Area B, 6 credits from Area C, and 7 credits from Area D. The remaining 9 of the 34 credits may be taken in any of the four areas.

#### Area A-Communication Skills

Six credits from the following departments: English (except literature), Speech/Communication, Foreign Languages and Literatures (except literature) and EDST 521

#### Area B—Humanities and Fine Arts

A minimum of six credits from the following departments: Art, Art History, English (literature), Languages and Literature (literature), Music, Philosophy and Theatre. Specific courses from the College of Human Resources (Department of Textiles, Design and Consumer Economics) may be selected upon approval of the advisor.

#### Area C—History and Social Science

A minimum of six credits from at least two of the following: Anthropology (except physical), Black American Studies, Criminal Justice, Economics, History, Political Science, Psychology, Sociology and Women's Studies. In addition, courses from the College of Human Resources in Individual Family Studies may be selected.

#### Area D-Mathematics, Natural and Biological Sciences

A minimum of seven credits from the following departments: Anthropology (physical), Biology, Chemistry, Engineering, Entomology, Food Science, Nutrition and Dietetics, Geography (physical and meteorology), Geology, Health Sciences (natural science area), Marine Studies, Mathematics (except MATH 251, 252, 253), Physics, Physical Science, Psychology (physiological), Statistics and Computer Science.

#### MAJOR REQUIREMENTS

Each course within the Academic Studies Core and Concentration Area requires a grade of C- or better.

#### Academic Studies

FREC 201	Records and Accounts
HPER 105	Foundations of Recreation and Leisure Skills
HPER 164	Practicum in Recreation and Parks 3
HPER 210	Safety, First Aid and Emergency Care 3
	Sarery, First Ald and Emergency Care
HPER 214	Wellness: A Way of Life
HPER 260	Leisure Service Programming 3
HPER 270	Recreation Leadership
HPER 276	Personal Computers in Health, Physical 2
	Education and Recreation
HPER 318	Special Recreation
HPER 341	
	Principles of Outdoor Recreation 3
HPER 354	Seminar in Recreation
HPER 404	Organization, Administration, Recreation and Leisure Service 3
HPER 450	Facility and Park Management 3
HPER 464	Internship in Recreation 9
Parks Con	entration

	redit hours selected from the following:
POSC 220	Introduction to Public Policy
GEOG 428	Land Use and Environmental Planning
	Conservation of Natural Resources 3
or	
	Environmental Ethics

An additional 6 credits from Plant Science, Engineering Technology, or Entomology & Applied Ecology Plus, an additional 6 credits from Communication, Criminal Justice, Geography, Philosophy, or Political Science

ELECTIVE	S C		
Electives		 a da ana ana ana ana ana ana ana ana ana	14

# 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

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. 20).

## SKILL REQUIREMENTS

## Writing Course

3

6

7

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 "

# Mathematics Course

#### BREADTH REQUIREMENTS

Students must complete a total of 34 credits in areas A through D, with a minimum of 6 credits from Area A, 6 credits from Area B, 6 credits from Area C, and 7 credits from Area D. The remaining 9 of the 34 credits may be taken in any of the four areas.

3

34

6

6

6

7

## Area A---Communication Skills

A minimum of six credits from the following departments: English (except literature), Speech/Communication, Foreign Languages and Literatures (except literature) and EDST 521.

#### Area B-Humanities and Fine Arts

A minimum of six credits from the following departments: Art, Art History, English (literature), Languages and Literature (literature), Music, Philosophy and Theatre. Specific courses from the College of Human Resources (Department of Textiles, Design and Consumer Economics) may be selected upon approval of the advisor.

#### Area C—History and Social Science

A minimum of six credits from at least two of the following departments: Anthropology (except physical), Black American Studies, Criminal Justice, Economics, History, Political Science and International Relations, Psychology, Sociology and Women's Studies. In addition, courses from the College of Human Resources in Individual Family Studies may be selected.

## Area D-Mathematics, Natural and Biological Sciences

A minimum of seven credits from at least two of the following departments: Anthropology (physical), Biology, Chemistry, Engineering, Entomology, Food Science, Nutrition and Dietetics, Geography (physical and meteorology), Geology, Health Sciences (natural science area), Marine Studies, Mathematics (except MATH 251, 252, 253), Physics, Physical Science, Psychology (physiological), Statistics and Computer Science. \*Indicates minimum number of credits; additional nine credits may be taken in any group(s)

#### MAJOR REQUIREMENTS

Each course within the Academic Studies Core and Concentration Area requires a grade of C- or better.

#### Academic Studies

FREC 201	Records and Accounts (minimum grade C-)	3
HPER 105	Foundations of Recreation and Leisure Skills	3
HPER 164	Practicum in Recreation and Parks	3
HPER 210	Safety, First Aid and Emergency Care	3
HPER 214	Wellness: A Way of Life	3
HPER 270	Recreation Leadership	3
HPER 276	Recreation Leadership Personal Computers in Health, Physical	2
	Education and Recreation	
HPER 341	Principles of Outdoor Recreation	3
HPER 354	Seminar in Recreation	1
HPER 260	Leisure Service Programming	
HPER 464	Internship in Recreation	
HPER 404	Organization, Administration, Recreation and Leisure Service	3
HPER 450	Facility and Park Management	3
HPER 318	Special Recreation	3
Programmi	ng and Leadership Concentration	1
Courses reflection of fo	ting a sub-discipline of recreation/leisure chosen under the sculty advisor and submitted for approval to the faculty provide the second submitted for approval to the faculty	

direction of faculty advisor and submitted for approval to the faculty advisor and the Recreation sub-committee no later than the beginning of the second semester of the junior year

# ELECTIVES

CREDITS TO TOTAL A MINIMUM OF ...... 120

#### COACHING SCIENCE MINOR

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

HPER 220 And HPER 320 Stre	ety, First Aid, and Emergency Care tomy and Physiology ngth and Conditioning
HPER 320 Stre	ngth and Conditioning
HPER 390 Prin	
	ciples of Coaching
HPER 360 Psyc	hology of Coaching .
HPER 460 Coo	ching/Performance Practicum

A total of twenty-six elective options exist to meet the 3 credits of Skills/Coaching requirement. Selection will be made with minor advisor's approval

# **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. 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 Medical Center of Delaware 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, first four semesters
- Minimal index computed from specified courses in biological sciences and chemistry, including laboratories: BISC 207, 208, 276, 371, and CHEM 103, 104, 213, and 214-216. Grade-point index in these courses 2.0
- 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.

Anna P. Ciulla, Chair, Associate Professor Office: 050 McKinly Laboratory Telephone: (302) 831-2849

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 multicultural, ethnic, and/or gender-related content (see p. 20).	
MAJOR REQUIREMENTS	
Outside the Department	
Skill Requirements	
<b>Writing:</b> (minimum grade C-) A second writing course involving significant writing experience include two papers with a combined minimum of 3,000 words to be submitted 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 59	ling d for I
Mathematics:	
MATH 114 College Mathematics and Statistics	
(designed for students who do not intend to continue the study of math matics)	
or MATH 115 Pre-Calculus	3
(designed for students who intend to continue the study of mathematics or	
One of the following:	
MATH 221 Calculus I	
MATH 241 Analytic Geometry and Calculus A	4
or Successful performance on the college proficiency exam	
Breadth Requirements	
(follow College of Arts and Science standards, see page 60.)	- 
Group A	6
Understanding and appreciation of the creative arts and humanities. Group B	· · · · ·
The study of culture and institutions over time.	
Group C	
Empirically based study of human beings and their environment.	
Within the Department (minimum grade of C- required in all MEDT	courses
MEDT 100 Introduction to Medical Technology MEDT 370 Phlebotomy Practicum	1
MEDT 370 Phlebotomy Practicum MEDT 372 Diagnostic Parasitology	
MEDT 372 Introduction to Clinical Chemistry	
	2
MEDT 376 Clinical Virology and Immunology	2
MEDT 378 Clinical Laboratory Computer Applications	-
MEDT 378 Clinical Laboratory Computer Applications MEDT 400 Urinalysis and Body Fluids	
MEDT 378 Clinical Laboratory Computer Applications MEDT 400 Urinalysis and Body Fluids MEDT 401 Clinical Physiological Chemistry I	2
MEDT 378         Clinical Laboratory Computer Applications           MEDT 400         Urinalysis and Body Fluids           MEDT 401         Clinical Physiological Chemistry I           MEDT 411         Clinical Physiological Chemistry I	2 3 2
MEDT 378       Clinical Laboratory Computer Applications         MEDT 400       Urinalysis and Body Fluids         MEDT 401       Clinical Physiological Chemistry I         MEDT 411       Clinical Physiological Chemistry I Laboratory         MEDT 404       Hematology I         MEDT 404       Hematology I	2 3 2 2
MEDT 378       Clinical Laboratory Computer Applications         MEDT 400       Urinalysis and Body Fluids         MEDT 401       Clinical Physiological Chemistry 1         MEDT 411       Clinical Physiological Chemistry 1         MEDT 404       Hematology 1         MEDT 404       Hematology 1         MEDT 414       Hematology 1         MEDT 406       Meical Microbiology	2 3 2 2 1 3
MEDT 378       Clinical Laboratory Computer Applications         MEDT 400       Urinalysis and Body Fluids         MEDT 401       Clinical Physiological Chemistry I         MEDT 411       Clinical Physiological Chemistry I         MEDT 404       Hematology I         MEDT 414       Hematology I         MEDT 406       Medical Microbiology         MEDT 416       Medical Microbiology	2 3 2 2 1 3 2 2 3 2
MEDT 378       Clinical Laboratory Computer Applications         MEDT 400       Urinalysis and Body Fluids         MEDT 401       Clinical Physiological Chemistry I         MEDT 411       Clinical Physiological Chemistry I         MEDT 411       Clinical Physiological Chemistry I         MEDT 411       Hematology I         MEDT 414       Hematology I         MEDT 405       Medical Microbiology         MEDT 416       Medical Microbiology Laboratory         MEDT 410       Principles of Medical Technology Education	2 3 2 1 3 2 1 3 2 1
MEDT 378       Clinical Laboratory Computer Applications         MEDT 400       Urinalysis and Body Fluids         MEDT 401       Clinical Physiological Chemistry I         MEDT 411       Clinical Physiological Chemistry I Laboratory         MEDT 414       Hematology I         MEDT 405       Medical Microbiology         MEDT 406       Medical Microbiology Laboratory         MEDT 416       Medical Microbiology Laboratory         MEDT 410       Principles of Medical Technology Education         MEDT 410       Clinical Physiological Chemistry II	2 3 2 1 3 2 1 3 2 1 4
MEDT 378       Clinical Laboratory Computer Applications         MEDT 400       Urinalysis and Body Fluids         MEDT 401       Clinical Physiological Chemistry I         MEDT 411       Clinical Physiological Chemistry I Laboratory         MEDT 404       Hematology I         MEDT 405       Medical Microbiology         MEDT 416       Medical Microbiology Laboratory         MEDT 416       Medical Microbiology Laboratory         MEDT 410       Principles of Medical Technology Education         MEDT 410       Clinical Physiological Chemistry II         MEDT 403       Clinical Physiological Chemistry II Laboratory         MEDT 413       Medical Technology Education         MEDT 414       Medical Physiological Chemistry II         MEDT 413       Clinical Physiological Chemistry II         MEDT 418       Medical Technology Senior Seminar	2 3 2 2 1 3 3 2 2 1 4 2 0
MEDT 378       Clinical Laboratory Computer Applications         MEDT 400       Urinalysis and Body Fluids         MEDT 401       Clinical Physiological Chemistry I         MEDT 411       Clinical Physiological Chemistry I Laboratory         MEDT 411       Clinical Physiology         MEDT 414       Hematology I         MEDT 414       Hematology I         MEDT 416       Medical Microbiology Laboratory         MEDT 416       Medical Microbiology Laboratory.         MEDT 410       Principles of Medical Technology Education         MEDT 403       Clinical Physiological Chemistry II         MEDT 413       Clinical Physiological Chemistry II         MEDT 413       Medical Technology Senior Seminar         MEDT 418       Medical Technology Senior Seminar         MEDT 415       Hematology II	2 3 2 1 3 2 2 1 1 4 4 2 0 0 2
MEDT 378       Clinical Laboratory Computer Applications         MEDT 400       Urinalysis and Body Fluids         MEDT 401       Clinical Physiological Chemistry I         MEDT 411       Clinical Physiological Chemistry I Laboratory         MEDT 414       Hematology I         MEDT 404       Hematology I         MEDT 414       Hematology I         MEDT 406       Medical Microbiology Laboratory         MEDT 410       Principles of Medical Technology Education         MEDT 410       Principles of Medical Chemistry II         MEDT 410       Clinical Physiological Chemistry II         MEDT 410       Principles of Medical Technology Education         MEDT 413       Clinical Physiological Chemistry II         MEDT 413       Clinical Physiological Chemistry II         MEDT 413       Medical Technology Senior Seminar         MEDT 414       Medical Technology II         MEDT 415       Hematology II	2 3 2 2 1 3 3 2 2 1 4 4 2 0 0 2 2 2
MEDT 378       Clinical Laboratory Computer Applications         MEDT 400       Urinalysis and Body Fluids         MEDT 401       Clinical Physiological Chemistry I         MEDT 411       Clinical Physiological Chemistry I Laboratory         MEDT 404       Hematology I         MEDT 405       Medical Microbiology         MEDT 414       Hematology I         MEDT 406       Medical Microbiology         MEDT 410       Principles of Medical Technology Education         MEDT 410       Principles of Medical Chemistry II         MEDT 413       Clinical Physiological Chemistry II         MEDT 413       Clinical Physiological Chemistry II         MEDT 413       Hematology II         MEDT 414       Hematology II         MEDT 415       Hematology II         MEDT 415       Hematology II         MEDT 415       Hematology II         MEDT 405       Immunohematology	2 3 2 2 1 3 3 2 2 1 4 4 2 0 0 2 2 2 1 1
MEDT 378       Clinical Laboratory Computer Applications         MEDT 400       Urinalysis and Body Fluids         MEDT 401       Clinical Physiological Chemistry I         MEDT 411       Clinical Physiological Chemistry I Laboratory         MEDT 411       Clinical Physiological Chemistry I Laboratory         MEDT 414       Hematology I         MEDT 414       Hematology I         MEDT 416       Medical Microbiology         MEDT 410       Principles of Medical Technology Education         MEDT 410       Principles of Medical Chemistry II         MEDT 410       Clinical Physiological Chemistry II         MEDT 410       Clinical Physiological Chemistry II         MEDT 413       Clinical Physiological Chemistry II         MEDT 413       Medical Technology Senior Seminar         MEDT 415       Hematology II         MEDT 405       Hematology II         MEDT 415       Hematology II         MEDT 410       Immunohematology Laboratory         MEDT 420       Immunohematology II	2 3 2 1 3 2 2 1 4 2 2 2 2 2 2 2 1 1 1 1 1 1 1
MEDT 378       Clinical Laboratory Computer Applications         MEDT 400       Urinalysis and Body Fluids         MEDT 401       Clinical Physiological Chemistry I         MEDT 411       Clinical Physiological Chemistry I Laboratory         MEDT 414       Hematology I         MEDT 404       Hematology I         MEDT 404       Hematology I         MEDT 404       Hematology I         MEDT 414       Hematology I         MEDT 405       Medical Microbiology Laboratory         MEDT 416       Medical Microbiology Laboratory.         MEDT 410       Principles of Medical Technology Education         MEDT 410       Clinical Physiological Chemistry II         MEDT 413       Clinical Physiological Chemistry II         MEDT 414       Hematology II         MEDT 415       Hematology II         MEDT 405       Immunohematology         MEDT 419       Immunohematology II         MEDT 420       Immunohematology II         MEDT 420       Immunohematology II	2 3 2 2 1 3 3 2 2 1 4 4 2 2 2 2 2 1 1 1 1 1 1 1 1
MEDT 378       Clinical Laboratory Computer Applications         MEDT 400       Urinalysis and Body Fluids         MEDT 401       Clinical Physiological Chemistry I         MEDT 411       Clinical Physiological Chemistry I Laboratory         MEDT 404       Hematology I         MEDT 405       Medical Microbiology         MEDT 410       Principles of Medical Technology Education         MEDT 410       Principles of Medical Chemistry II         MEDT 410       Principles of Medical Chemistry II         MEDT 410       Principles of Medical Technology Education         MEDT 413       Clinical Physiological Chemistry II         MEDT 414       Hematology II         MEDT 415       Hematology II         MEDT 405       Immunohematology Laboratory         MEDT 419       Immunohematology II         MEDT 420       Immunohematology II         MEDT 421       Immunohematology II         MEDT 421       Diaganostic Bacteriologay and Medical Mycol	2 3 2 2 1 3 3 2 2 1 4 4 2 2 2 2 2 2 2 1 1 1 1 1 1 2
MEDT 378       Clinical Laboratory Computer Applications         MEDT 400       Urinalysis and Body Fluids         MEDT 401       Clinical Physiological Chemistry I         MEDT 411       Clinical Physiological Chemistry I         MEDT 414       Hematology I         MEDT 404       Medical Microbiology         MEDT 410       Principles of Medical Technology Education         MEDT 410       Clinical Physiological Chemistry II         MEDT 413       Clinical Physiological Chemistry II         MEDT 413       Clinical Physiological Chemistry II         MEDT 413       Clinical Physiological Chemistry II         MEDT 414       Hematology II         MEDT 415       Hematology II         MEDT 405       Immunohematology Laboratory         MEDT 419       Immunohematology II         MEDT 420       Immunohematology II	2 3 2 2 2 1 3 3 2 2 1 4 4 2 2 2 2 2 1 1 1 1 1 1 1 2 2 607 2 2

MEDT 471 MEDT 472 MEDT 473 MEDT 475 MEDT 477 MEDT 479	Seminar: Medical Technology Laboratory Management. Clinical Urine and Serology Practicum Clinical Chemistry Practicum Clinical Hematology Practicum Clinical Microbiology Practicum Clinical Immunohematology Practicum	1 3 3 3
Related Wor	rk	
BISC 207 BISC 208 BISC 276 BISC 371 BISC 471	Introductory Biology I Introductory Biology II Human Physiology Introduction to Microbiology Introductory Immunology	4 4 4 4 3
CHEM 103 CHEM 104	General Chemistry General Chemistry	4
CHEM 213 CHEM 214 CHEM 216	Elementary Organic Chemistry Elementary Biochemistry Elementary Biochemistry Laboratory	4 3 1
or CHEM 321 CHEM 322	Organic Chemistry Organic Chemistry	4

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 program for those who are already registered nurses with associate degrees or diplomas. Returning nurses may complete some course work at home or in the worksite via video. 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.

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 the National League for Nursing. 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 College of Nursing uses many health care agencies in the Wilmington-Newark and nearby areas for clinical teaching.

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. Program policies are currently under review, and all students must meet regularly with their faculty advisor to ensure that all requirements are being met.

A minimum cumulative grade-point index of 2.0 is required to enroll in all nursing courses.

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

# LICENSURE

**G** raduates are eligible for registered nurse licensure in Delaware or other states 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.

		-
DEGREE: E MAJOR: N	BACHELOR OF SCIENCE IN NURSING	
CURRICULUN	CREDITS	;
UNIVERSI	TY REQUIREMENTS	
ENGL 110 Three credits	Critical Reading and Writing (minimum grade C) 3 in an approved course or courses stressing 3 al, ethnic, and/or gender-related content (see p. 20)	
BREADTH	REQUIREMENTS	
Natural Sci		
BISC 207 BISC 208 BISC 276 BISC 371 CHEM 105 CHEM 106 STAT 200	Introductory Biology I       4         Introductory Biology II       4         Human Physiology       4         Introduction to Microbiology       4         General Chemistry       5         Elementary Bioorganic Chemistry       5         Basic Statistical Practice       3	
Humanities		
Philosophy co Restricted Hu Art, Art Hi	Expository Writing 3 rse 200-level or above 3 manifies course chosen from among 3 story, Ancient Literature, Comparative Literature, Foreign and Literatures, Modern Literature, History, Philosophy, matre.	
Social Scier	ICES :	
Anthropology Restricted Soc History, Po	General Psychology       3         Life Span Development       3         Jrse 200-level or above       3         course 100-level or above       3         ial Science course chosen from among       3         litical Science, Economics, Black American Studies,       3         Studies, Psychology, Sociology       3	
Other		
NTDT 200	Nutrition Concepts	
MAJOR RE	QUIREMENTS	
NURS 205 NURS 212 NURS 215 NURS 306 NURS 315 NURS 312 NURS 314 NURS 308 NURS 317	Societal Context of Nursing       3         Concepts in Pathophysiology       3         Basic Nursing Practice Skills       1         Determinants of Wellness       5         Practicum I       4         Pathophysiology       3         Psychopathology       3         Psychopathology       2         Restorative Nursing Practice I       4         Practicum II       3	
NURS 318 or	Practicum III	
NURS 319 NURS 332 NURS 405 NURS 408 NURS 417	Practicum IV     3       Pharmacological Nursing Responsibility     3       Introduction to Research     3       Restorative Nursing Practice II     4       Practicum V     3	
NURS 418 or	Practicum VI	
NURS 419	Practicum VII	
NURS 409 NURS 420 NURS 411	Professionalism in Nursing Practice       2         Practicum VIII       6         Topics in Health Care Delivery       3	
ELECTIVE Electives	S	

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 FOR THE REGISTERED NURSE (BRN)**

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) format. Many of the support courses are also available in video format.

DEGREE: BACHELOR OF SCIENCE IN NURSING MAJOR: BACCALAUREATE FOR THE REGISTERED NURSE (BRN)
CURRICULUM CREDITS
UNIVERSITY REQUIREMENTS
ENGL 110       Critical Reading and Writing (minimum grade C-)       3         Three credits in an approved course or courses stressing       3         multicultural, ethnic, and/or gender-related content (see p. 20)
BREADTH REQUIREMENTS
Natural Science         24 credits, to include a minimum of one course in each of the following five categories. (1) biology, (2) microbiology, (3) chemistry, (4) anatomy and physiology, and (5) nutrition.
Humanities
English course (second English composition course) 3 Literature course 3 Philosophy course 3
Social Sciences
Psychology course 3 Sociology course 3 Lifespan development course 3
Other           STAT 201         Introduction to Statistics I         3
Electives Restricted elective chosen from the following
Free Electives 15
MAJOR REQUIREMENTS NURS 312 Pathophysiology 4
NURS 312       Psychopathology       3         NURS 340       Current Perspectives in Professional Nursing       2         NURS 342       Nursing Informatics       2         NURS 343       Transition fo Baccalaurecte Nursing Education       1         NURS 344       Wellness/Health Assessment       2         NURS 405       Introduction to Nursing Research       2         NURS 411       Topics in Health Care Delivery       3         NURS 442       Community Health Assessment       1         NURS 443       BRN Role Practicum       3         NURS 445       Nursing Research Applications       1         NURS 446       Leadership/Organizational Behavior       2
CREDITS TO TOTAL A MINIMUM OF 125

# NUTRITION AND DIETETICS

**P**rograms in the Department of Nutrition and Dietetics 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 Catalog for information on the Dietetic Internship Program.

A second major in the Department is Applied Nutrition. The first two years of coursework is nearly identical for the Applied Nutrition and the Dietetics majors. The 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 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 careerrelated 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 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.

# **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), Center for Science and Culture (CSCC 206, 229, 241, 246, 250, 330, 365, 368, 369, 444).

# SOCIAL SCIENCE

A merican Studies, 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), Center for Science and Culture (CSCC 233, 242, 243, 271, 310, 311, 355, 382, 385).

## HONORS DEGREES IN THE **DEPARTMENT OF NUTRITION AND DIETETICS**

**S**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 30 of this catalog).

# 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 300level 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.

# **DEGREE: BACHELOR OF SCIENCE IN HUMAN RESOURCES MAJOR: APPLIED NUTRITION**

CURRICULUM

UNIVERSITY REOUIREMENTS

er a suble a suble contrast and	
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. 20)	

MAJOR R	EQUIREMENTS
External to	the College
Humanitie	s electives
Sciences	$\sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{i$
CHEM 101	General Chemistry
CHEM 103	General Chemistry
CHEM 102 or	General Chemistry
CHEM 104	General Chemistry
CHEM 213 CHEM 214 CHEM 216	Élementary Organic Chemistry Elementary Biochemistry Elementary Biochemistry Laboratory
BISC 103 BISC 113	General Biology . General Biology Laboratory
or BISC 207 and	Introductory Biology I
BISC 208	Introductory Biology II
BISC 106 and	Elementary Human Physiology
BISC 116	Elementary Human Physiology Lab

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BISC 276 Human Physic	ology				
Students desiring to fulfill a l	Biology minor should	take	BISC	207,	208
and 276					

#### Social Sciences

ECON 100	Economic Issues and Policies
or	
ECON 151	Introduction to Microeconomics: Prices and Markets
PSYC 201	General Psychology
Sociology co	Urse
BUAD 309	Management and Organizational Behavior
Social Science	

#### Food Science

Requires a minimum grade of C- and a minimum grade of C- in 200-level courses must be achieved to proceed to upper-level courses

FOSC 201	
FOSC 211	Food Principles Laboratory
FOSC 305	Food Science
FOSC 306	Food Science Laboratory
Other	

H

CREDITS

MATH 114	Elementary Mathematics and S	tatistics		3
or				
Successful pe	erformance on the Proficiency Tes	t in Mathematic	s administered b	У
Department of	of Mathematical Sciences			
IFST course				. 3
	New York Contract of the			. 3

FST, NTDT, CNST, HRIM, HURE courses				
Tran to Ab a Thesi and a suit				

Within the Department

A minimum grade of C- must be achieved for credits to count toward the fulfillment of 25 credits in NTDT; a minimum grade of C- in 200-level courses must be achieved to proceed to upper-level courses; only 300level 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 Nutrition Concepts NTDT 200 NTDT 400 Macronutrients NTDT 401 Micronutrients NTDT 445 Nutrition Education NTDT courses (300-level or higher) NTDT courses and the second **ELECTIVES** 25-29 Electives May include Military Science, Music, or Physical Education. (Only two credits of activity-type Physical Education and four credits of Music orga-

nization credits and four credits of 100- and 200-level courses in Military Science/Air Force may be counted toward the degree )

Admission into Dietetics requires the completion of most courses in the first three semesters of Applied Nutrition. A cumulative grade point aver-age of 2.5 is required for admission.

CURRICULU	M	CREDITS
	ITY REQUIREMENTS	
ENGL 110	Critical Reading and Writing (minimum grade C-)	
Three credit	s in an approved course or courses stressing ral, ethnic, and/or gender-related content (see p. 20)	
	EQUIREMENTS	
	the College	
	s electives	9
Sciences CHEM 101	General Chemistry	
or CHEM 103	General Chemistry	
CHEM 103	General Chemistry	
or		
CHEM 104	General Chemistry	
CHEM 213 CHEM 214 CHEM 216	Elementary Organic Chemistry Elementary Biochemistry Elementary Biochemistry Laboratory	
BISC 103 BISC 113	General Biology General Biology Laboratory	
or BISC 207 and	Introductory Biology I	
BISC 208	Introductory Biology II	
BISC 106	Elementary Human Physiology	3
and BISC 116 or	Elementary Physiology Laboratory	
BISC 276	Human Physiology	
BISC 371 Students des and 276	Introduction to Microbiology iring to fulfill a Biology minor should take BISC 207, 208	4
Social Scie		
CON 100	Economic Issues and Policies	
or CON 151 PSYC 201	Introduction to Microeconomics: Prices and Markets General Psychology	
SOCIOLOG SOCI 201 SOCI 202 SOCI 203 SOCI 204 SOCI 209 SOCI 210 SOCI 242	Y (Three credits chosen from the following courses:) Introduction to Society Social Deviance The Individual and Society Urban Communities Social Problems Population Problems Society and the Health Professions	3
SOCI 243	Society, Politics and Health Care	
SYC 303	Introduction to Social Psychology Sociology of Healthcare	
SUAD 309	Management and Organizational Behavior	
	ce elective	
ood Scien		
ourses must	inimum grade of C-; a minimum grade of C- in 200-level be achieved to proceed to upper-level courses	14. 14
OSC 201 OSC 211	Food Principles Food Principles Laboratory	
OSC 305	Food Science	
OSC 306	Food Science Laboratory	
Other	the colored from STAT 200 BEVG 200 EDEC 100	2
AATH 114	rse selected from: STAT 200, PSYC 309, FREC 408 Elementary Mathematics and Statistics	
or		J
stered by De ST course	rformance on the Proficiency Test in Mathematics admin- partment of Mathematical Sciences	
	Department	
minimum g	rade of C- must be achieved for credits to count toward the full edits in NTDT; a minimum grade of C- in 200-level courses mu	ill- et

NTDT 103 NTDT 200 NTDT 240 NTDT 321 NTDT 322 NTDT 325 NTDT 325 NTDT 330 NTDT 400 NTDT 401 NTDT 401 NTDT 403 NTDT 421 NTDT 445 NTDT 445	Introduction to Nutrition Professions. Nutrition Concepts Introduction to Clinical Dietetics Quantity Food Production and Service. Laboratory in Quantity Food Production and Service. Foodservice Facility Design Nutrition Counseling Macronutrients Dietetics Seminar Nutrition Assessment Methods Nutrition Education Community Nutrition	3 3 3 1 3 3 3 3 3 3 1 2 3 3 3 3 3 3 3 3
ELECTIVE	S	
May include credits of acti nization cred tary Science/	Military Science, Music, or Physical Education. (Only two vity-type Physical Education and four credits of Music orga- its and four credits of 100- and 200-level courses in Mili- Air Force may be counted toward the degree )	
<b>CREDITS T</b>	O TOTAL A MINIMUM OF	129
	ACHELOR OF SCIENCE IN HUMAN RESOURC	ES
CURRICULUM		CREDITS
	<b>FY REQUIREMENTS</b>	
ENGL 110	Critical Reading and Writing (minimum grade C-) in an approved course or courses stressing	3
multiculture	al, ethnic, and/or gender-related content (see p. 20).	· · · · · · · · · · · · · · · · · · ·
	QUIREMENTS	
External to	the College	
Humanities	electives	
Sciences		
CHEM 103 CHEM 104 CHEM 214 CHEM 216 CHEM 220 CHEM 221 CHEM 321 CHEM 322 BISC 207 BISC 208 BISC 276 BISC 371 PHYS 201	General Chemistry General Chemistry Elementary Biochemistry Elementary Biochemistry Laboratory Quantative Analysis I Guantative Analysis Laboratory Organic Chemistry Organic Chemistry Introductory Biology I Introductory Biology I Human Physiology Introductory Diology II Human Physiology Introductory Physics I	4 3 1 3 4 4 4 4 4 4 4 4
Social Scien	ces	
	Economic Issues and Policies	
or ECON 151	Economic Issues and Policies Introduction to Microeconomics: Prices and Markets e electives	
or ECON 151 Social Science <b>Food Science</b>	Introduction to Microeconomics: Prices and Markets e electives	
or ECON 151 Social Science Food Science Requires a mi courses must	Introduction to Microeconomics: Prices and Markets e electives nimum grade of C-, and a minimum grade of C- in 200-leve be achieved to proceed to upper-level courses	
or ECON 151 Social Science Food Science Requires a mi courses must FOSC 201 FOSC 201 FOSC 211 FOSC 211 FOSC 305 FOSC 306	Introduction to Microeconomics: Prices and Markets e electives nimum grade of C-, and a minimum grade of C- in 200-leve	
or ECON 151 Social Science Food Science Requires a min courses must FOSC 201 FOSC 201 FOSC 211 FOSC 305 FOSC 306 Other	Introduction to Microeconomics: Prices and Markets e electives in minimum grade of C-, and a minimum grade of C- in 200-leve be achieved to proceed to upper-level courses Food Principles Food Principles Laboratory Food Science Food Science Laboratory	12 1 1 2 1 2 1
or ECON 151 Social Science Food Science Requires a mi courses must FOSC 201 FOSC 201 FOSC 211 FOSC 205 FOSC 211 FOSC 305 FOSC 306 Other FREC 408	Introduction to Microeconomics: Prices and Markets e electives in minum grade of C-, and a minimum grade of C- in 200-leve be achieved to proceed to upper-level courses Food Principles Food Principles Laboratory Food Science Food Science Laboratory Research Methods	12 1 1 2 1 2 1 1 3
or ECON 151 Social Science Food Science Requires a min courses must FOSC 201 FOSC 20	Introduction to Microeconomics: Prices and Markets e electives in minimum grade of C-, and a minimum grade of C- in 200-leve be achieved to proceed to upper-level courses Food Principles Food Principles Laboratory Food Science Food Science Laboratory	12 1 1 2 1 2 1 1 3
or ECON 151 Social Science Food Science Requires a mi courses must FOSC 201 FOSC 201 FOSC 211 FOSC 205 FOSC 211 FOSC 305 FOSC 306 Other FREC 408	Introduction to Microeconomics: Prices and Markets e electives ine nimum grade of C-, and a minimum grade of C- in 200-leve se achieved to proceed to upper-level courses. Food Principles Food Principles Laboratory Food Science Food Science Laboratory Research Methods Calculus I	12 1 2 1 2 1 1 3 3
or ECON 151 Social Science Food Science Requires a mi courses must FOSC 201 FOSC 201 FOSC 201 FOSC 305 FOSC 305 FOSC 306 Other FREC 408 MATH 221 or	Introduction to Microeconomics: Prices and Markets e electives minum grade of C-, and a minimum grade of C- in 200-leve be achieved to proceed to upper-level courses. Food Principles Food Principles Laboratory Food Science Food Science Laboratory Research Methods Calculus I Analytic Geometry and Calculus A	12 1 2 1 2 1 2 1 3 3 3 4
or ECON 151 Social Science Food Science Requires a mi courses must FOSC 201 FOSC 201 FOSC 201 FOSC 201 FOSC 305 FOSC 305 FOSC 306 Other FREC 408 MATH 221 or MATH 221	Introduction to Microeconomics: Prices and Markets e electives ine nimum grade of C-, and a minimum grade of C- in 200-leve se achieved to proceed to upper-level courses. Food Principles Food Principles Laboratory Food Science Food Science Laboratory Research Methods Calculus I	12 1 1 2 1 2 1 1 3 3 3 4 3

# Within the Department

A minimum grade of C-must be achieved for credits to count toward the fulfillment of 26 credits in NTDT; a minimum grade of C- in 200-level courses must be achieved to proceed to upper-level courses; only 300level 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 400	Macronutrients	3
NTDT 401	Micronutrients	
NTDT 421	Nutrition Assessment Methods	
NTDT 440	Nutrition and Disease	3
NTDT courses	(300-level or higher)	>
NTDT course		3

# ELECTIVES

# Electives

6-8

May include Military Science, Music, or Physical Education. [Only two credits of activity-type Physical Education and four credits of Music organization credits 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