

# SCHOOL OF HEALTH AND HUMAN SERVICES

James McCarthy, Dean  
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Department of Communication Sciences and Disorders  
Department of Family Studies  
Department of Health Management and Policy  
Department of Kinesiology  
Department of Nursing  
Department of Occupational Therapy  
Department of Recreation Management and Policy  
Department of Social Work

## Bachelor of Science

Communication Sciences and Disorders  
Family Studies  
    Child and Family Studies  
Health Management and Policy  
Kinesiology  
    Athletic Training  
    Exercise Science  
    Outdoor Education  
    Physical Education Pedagogy  
    Sport Studies  
Nursing  
Occupational Therapy  
Recreation Management and Policy  
    Program Administration  
    Therapeutic Recreation

## Bachelor of Arts

Social Work

**T**he School of Health and Human Services, established in 1968, was created in response to the growing need for programs in higher education that prepare young men and women for health-related careers. The school offers undergraduate instruction leading to the bachelor of science degree in communication sciences and disorders, family studies, health management and policy, kinesiology, nursing, occupational therapy, and recreation management and policy. It also offers undergraduate instruction leading to a bachelor of arts degree in social work. Each program enables students to acquire the basic knowledge and skills needed to practice their chosen professions and to obtain a broad cultural background in the humanities and social sciences.

## Degree Requirements

Candidates for the B.S. and B.A. degree must satisfy all general education requirements for graduation (page 17), earn at least 128 credits, successfully complete the courses required in one of the curricula described in this section, and achieve the required minimum grade-point average in the chosen curriculum. Candidates for the B.A. degree must satisfy a language requirement (page 18). Generally, courses are to be completed in the sequence in which they are arranged.

*Minors: See page 20; see also page 23.*

*Dual-Degree Programs: See page 19.*

*Student-Designed Majors: See page 105.*

*Second Majors: See page 20.*

## Undeclared Major

A limited number of well-qualified freshmen who have expressed an interest in a health-related career, but who are undecided about a specific major may enter the School of Health and Human Services as undeclared students. Undeclared students should explore possible majors by selecting courses from those listed below.

### Required Courses

ENGL 401, Freshman English  
PSYC 401, Introduction to Psychology  
ZOOL 507-508, Human Anatomy and Physiology

### Recommended Courses

CHEM 403-404, General Chemistry  
CSD 520, Survey of Communication Disorders  
FS 525, Human Development  
HMP 401, U.S. Health Care Systems  
KIN 500, Historical and Contemporary Issues in Physical Education  
KIN 585, Emergency First Responder  
MLS 401, Introduction to Medical Laboratory Science

NUTR 475, Nutrition in Health and Disease  
RMP 490, History and Philosophy of Leisure  
SW 524, Introduction to Social Work

All SHHS undeclared students are advised by a professional academic counselor. Upon declaration of a specific major, each student is assigned to a faculty adviser within the major department.

## Student Liability Insurance

All students whose programs require participation in clinical learning internships must purchase and maintain liability insurance for the entire clinical experience. The University has arranged for appropriate insurance coverage at a modest cost to students. Further information may be obtained at major department offices.

## Programs of Study

### Communication Sciences and Disorders

*(For descriptions of courses, see page 148.)*

Communication disorders is the profession devoted to helping people overcome disabilities of speech, language, or hearing. The study of communication sciences and disorders may begin in the freshman or sophomore year. Students learn about speech, language, and hearing disorders in the classroom and then become involved in clinical observation in the on-campus Speech-Language-Hearing Center. Students are encouraged to take elective courses in linguistics, human development, learning theory, early childhood, health administration, special education, and various aspects of rehabilitation.

Students are advised to continue their professional education at colleges or universities offering graduate programs leading to a master's degree and to subsequent certification by the American Speech-Language-Hearing Association. Certified clinicians find employment opportunities in hospitals, schools, community speech and hearing clinics, and private practice.

The required courses in communication sciences and disorders which all students in the program must successfully complete are CSD 520, Survey of Communication Disorders; CSD 521, Anatomy and Physiology of the Speech and Hearing Mechanism; CSD 522, The Acquisition of Language; CSD 524, Clinical Phonetics; CSD 630, Organic Pathologies; CSD 631, Articulation and Language Disorders in Children; CSD 635, Professional Issues in Speech-Language Pathology; CSD 704, Basic Audiology; CSD 705, Introduction to Auditory Perception and Aural Rehabilitation; CSD 723, Observation Skills in Speech-Language Pathology; and CSD 777, Speech and Hearing Science. Students must also complete KIN 706, Neurology, and a course in statistics. Other elective courses are available.

Students must have a grade-point average of 2.75 at the end of their sophomore year to continue in the major. A 2.75 grade-point average is also required to transfer into the major. Students interested in this program should consult with the chairperson, Penelope E. Webster.

## Family Studies

(For descriptions of courses, see page 166.)

The department's mission is to support the well-being of individuals and families through research, teaching, and service. Programs emphasize both theoretical and practical knowledge about lifespan development, the social and economic roles of families, child advocacy, teacher and parent education, and intervention programs that support families. The department is committed to acknowledging and supporting diversity, to providing an educational environment that stresses excellence and innovation, and to developing exemplary programs to serve both students and the larger community.

Students learn about families through integration of developmental, theoretical, and empirical information. The Department of Family Studies offers a B.S. degree in family studies with four specializations which prepare students for unique career directions. Students prepare for positions in family service organizations, educational set-

tings and programs, corporations, and government agencies. Each specialization has entry-level criteria and specific course requirements. All require close consultation with a faculty adviser. Any changes or updates are posted on our Web site [www.unh.edu/family-studies](http://www.unh.edu/family-studies).

The Nursery/Kindergarten Teaching Certification and the Certified Family Life Educator programs are highly structured and may have limited enrollment. Acceptance to these programs and to internships and practica is restricted to students demonstrating exceptional potential for working with children and families.

### Major Requirements

Core courses required of each family studies major are: FS 525, Human Development and FS 545, Family Relations. A minimum of nine family studies courses are required, at least two of which must be at the 700 level. Twenty credits of supporting coursework are selected in consultation with the adviser. These courses must be 500 level or above and must include at least 12 credits in courses outside the department. Each specialization has required or recommended supporting courses. Some departmental specializations may specify general education courses because they enhance the plan of study.

### Child Advocacy and Family Policy Specialization

This specialization focuses on analyzing and solving problems related to children and their families with a primary emphasis on unmet needs. The goal is for students to complete their degree with a detailed understanding of human development, family relations, educational and government initiatives and regulations, cultural differences, statistics, politics, and effective communication strategies. The specialization is designed to prepare students for entry-level positions as advocates or policy generalists, or to pursue a graduate degree.

### Department Requirements

FS 525, Human Development  
 FS 545, Family Relations  
 FS 553, Personal and Family Finance for Family Life Educators  
 or  
 FS 653, Family Economics  
 FS 623, Development Perspectives on Infancy and Early Childhood  
 or  
 FS 624, Developmental Perspectives on Adolescence and Early Adulthood  
 FS 641, Parenting Across the Lifespan  
 or  
 FS 743, Families, Schools and Community  
 or

FS 760, Family Programs and Policies

FS 746, Human Sexuality

or

FS 750, Contemporary Issues in Adolescent Development

or

FS 757, Race, Class, Gender and Families

FS 772, Child Advocacy

FS 773, International Perspectives on Families and Young Children

FS 794, Family and the Law

Internship

### Supporting Courses

ENGL 503 or ENGL 621, PSYC 502, or SOC 502,  
 ANTH 516, CS 401 or CS 403, PHIL 412 or POLT  
 407 or SW 705

### General Education

Students should select from the courses listed.

Writing Skills: ENGL 401

Qualitative Reasoning: PHIL 412 or PSYC 402 or  
 SOC 502

Biological Science, Physical Science, and  
 Technology: BIOL 405 or 411; MICR 501; ZOO  
 412 or 507; CS 401; NUTR 400; PHIL 447 or 450

Foreign Culture: Any course except ENGL 581;  
 WLCE 523G, 524G

Social Science: ANTH 412, 625; CD 415; CMN 402,  
 455, 457; ECON 401, 402; HHS 510; HMP 401;  
 HUMA 510D; NUTR 405; POLT 402, 505, 560, 564,  
 565, 566, 567; RMP 550, 570; SW 525; SOC 400,  
 500, 520, 530, 540, 625

Works of Literature, Philosophy and Ideas: AMST  
 502; CMN 456; ENGL 517, 519, 681; FREN 500,  
 521, 652; GERM 500, 520, 521; HUMA 500, 650;  
 ITAL 500, 521, 522, 651, 652; PHIL 401, 424, 435,  
 436, 520, 540; POLT 407, 520, 521, 522, 523; PORT  
 500; RUSS 500, 521, 522, 593; SPAN 500, 521,  
 522, 650, 651/652, 653/654

### Young Child Specialization/Nursery-Kindergarten Teaching Certification

This concentration is for those who have a broad interest in working with young children ranging in age from birth to age eight. This specialization has four major foci that include child development, teaching methodology and curriculum development, developmentally appropriate learning environments for young children, and home-school-community relations.

The nursery-kindergarten certification (N/K) is a highly competitive program within the Young Child specialization. This means that it is unlikely that everyone who applies will be admitted. Applications to the N/K program are completed by students during the fall of the junior year.

### Department Requirements

FS 525, Human Development\*  
 FS 545, Family Relations\*  
 623, Developmental Perspectives on Infancy and  
 Early Childhood\*

FS 635, Teaching and Learning in Early Childhood Settings\*  
 FS 708-709, Advanced Child Development Internship\*  
 or  
 FS 710, Community Internship (minimum 4 credits)  
 FS 733, Supervising Programs for Young Children\*  
 FS 734, Curriculum for Young Children\*  
 FS 743, Families, Schools and Community\*  
 FS 771, Observation and Assessment\*

Students accepted into the certification program must also enroll in the following courses during their senior year:

FS 785, Seminar for Student Teachers\*  
 FS 786, Seminar for Student Teachers\*  
 FS 788, Student Teaching of Young Children\*

\*These courses are required for nursery-kinder-garten certification.

#### *Supporting Courses*

EDUC 500\* (may substitute FS 708 or FS 709); THDA 583\* or 621; PSYC 581; KIN 600\* or 675; MATH 601\* or FS 797\* Exploring Mathematics with Young Children; FS 760, 772, 773, 794, 797 (Families in Poverty); EDUC 706\*, 733, 734, 750, 751, 760.

\*These courses are required for nursery/kinder-garten certification.

### **Family Support/Provisional Certification Family Life Education**

This specialization is for students interested in working with children, adolescents, and adults either as individuals or as families. Students develop knowledge and skills to prepare them to provide family support, direct services, and family life education. This specialization prepares students to work in human service settings. Students in this specialization may choose a plan of study leading to a provisional certification as a family life educator.

The National Council on Family Relations has approved the Department of Family Studies undergraduate program as meeting the Standards and Criteria required for the Provisional Certified Family Life Educator (CFLE) designation. Certified Family Life Educators work in a variety of settings including social services, health services, child care, family support, youth programs, parent education, junior and senior high schools, and universities and colleges. The CFLE designation recognizes expertise in the broad range of issues that constitute family life education and increases credibility by validating the individual's education and experience.

#### **Department Courses**

FS 525, Human Development\*  
 FS 545, Family Relations\*  
 FS 641, Parenting Across the Life Span\*  
 FS 746, Human Sexuality\*  
 FS 757, Race, Class and Gender\*  
 FS 760, Family Programs and Policies\*  
 FS 794, Families and the Law\*  
 FS 553, Personal and Family Finance for Family Life Professionals\*

or

FS 653, Family Economics\*  
 FS 623, Developmental Perspectives on Infancy and Early Childhood

or

FS 624, Developmental Perspectives on Adolescence and Early Adulthood  
 FS 772, International Approaches to Child Advocacy

or

FS 773, International Perspectives on Children and Families

Students accepted into the CFLE Program must also take:

FS 782, Family Internship\*  
 FS 792, Seminar for Family Interns\*

\*These courses are required for the Certified Family Life Educator designation.

#### *Supporting Courses*

Gerontology Minor  
 FS 750, Contemporary Issues in Adolescent Development  
 Research Methods course (e.g., PSYC 502)  
 NURS 535; PSYC 552, 582; SOC 525, 540, 675; SW 524, 525, 697A, 697B, 697C; CMN 530 or PSYC 762.

### **Individual and Family Development Specialization**

This specialization is for students with a broad interest in working with families. This specialization provides knowledge about specific life stages of individuals within the context of family systems with a focus on system dynamics, diverse family systems, gender, and cultural differences. This plan of study is designed particularly for those expecting to attend graduate school and those who desire a general background in lifespan development and family dynamics.

#### **Department Requirements**

FS 525, Human Development  
 FS 545, Family Relations  
 FS 623, Developmental Perspectives on Infancy and Early Childhood  
 FS 624, Developmental Perspectives on Adolescence and Early Adulthood  
 FS 641, Parenting Across the Lifespan  
 FS 653, Family Economics  
 FS 746, Human Sexuality

FS 757, Race, Class and Gender  
 FS 794, Families and the Law

#### *Supporting Courses*

FS 750, Contemporary Issues in Adolescent Development  
 FS 760, Family Programs and Policies  
 FS 782, Family Internship  
 FS 792, Family Internship Seminar  
 Research Methods course (e.g., PSYC 502, Research Methods in Psychology)  
 PSYC 552, 581, 582  
 NURS 535,  
 SOC 540

A foreign language  
 Work with the Institute on Disabilities

#### *General Education*

CS 401, Introduction to Computers  
 Statistics course: e.g., PSYC 402 or SOC 502 or HHS 540

### **Internships**

Internship students will apply knowledge gained from their academic studies in a supervised environment. The internship involves a commitment of fifteen hours per week for two semesters, plus a three-hour seminar every other week. Students apply for the internship during the spring semester of their junior year. Internship applicants must have completed 20 credits of departmental coursework prior to their senior year with a minimum overall grade-point average of 3.00 and a departmental grade-point average of 3.20 or higher. Internship requirements vary depending on specialization. Internship courses will count toward the 20 credits required in supporting courses.

### **Minor**

The department offers a minor to interested students in related majors. Minor requirements include FS 525, FS 545, and three additional courses chosen in consultation with a departmental adviser. Individual course grades must be C or above and the overall grade-point average for the 20 credits must be at least 2.00. Students desiring a minor in family studies are advised to consult with the departmental administrative manager as early as possible.

### **Health Management and Policy**

*(For descriptions of courses, see page 170.)*

Undergraduates majoring in the health management and policy program are prepared to embark upon management careers in a wide range of health care delivery and financing organizations, public health, and health policy. Graduates work in many settings, including health care delivery systems, hospitals, nursing homes, health maintenance and

other managed care organizations, public health departments, community-based and home-health agencies, mental health facilities, regulatory bodies, consulting companies, and insurance companies.

The academic program is interdisciplinary, with undergraduates taking courses in many academic units of the University. Students gain a broad view of health and health care while developing analytical skills in health care management and policy. The department uses a computer laboratory that is integrated throughout the curriculum.

The department's undergraduate program maintains full certification by the Association of University Programs in Health Administration (AUPHA). Students have the opportunity to become student members in the American College of Healthcare Executives and the American College of Health Care Administrators, both of which are represented by student chapters at the University. There is also an organization for students interested in public health issues. The department curriculum is approved under the New England Regional Student Program.

#### Academic Program

*Competencies are achieved through three components of the curriculum:*

University general education requirements, HMP collateral courses, and the HMP core courses including a field practicum. Students work closely with their assigned faculty advisers to develop a plan of study to achieve completion of each of these components. Additionally, several upper-level HMP elective courses are available.

#### *University General Education Requirements:*

Advisers assist students in selecting courses that satisfy certain program expectations and simultaneously meet University general education requirements.

#### *HMP-Required Collateral Courses:*

A basic understanding is expected in each of the following areas related to health management and policy: (1) microeconomics, (2) finite math or calculus, (3) organizational behavior, (4) statistics, and (5) accounting. HMP faculty advisers work with students to select the appropriate courses to fulfill these requirements. In general, students are advised to complete their collateral coursework prior to their junior year in the major. Program-approved courses in organizational behavior and U.S. Health Care Systems (HMP 401) must have been completed successfully before a student may begin junior-level studies in the major.

#### *HMP Core Courses:*

Each of the following courses must be completed by HMP majors prior to graduation.

*Introductory courses* include HMP 400, Introduction to Health Management and Policy; HMP 401, U.S. Health Care Systems; HMP 402, Health Man-

agement and Policy Critical Issues; HMP 501, Epidemiology and Community Medicine; HMP 630, Health Issues Seminar I; HMP 631, Health Issues Seminar II.

*Upper-division courses* include HMP 711, Health Systems Research I; HMP 712, Health Systems Research II; HMP 721, Managing Health Care Organizations; HMP 723, Health Planning; HMP 740, Health Care Financial Management; HMP 742, Strategic Management for Health Care Organizations or HMP 748, Health Policy Analysis; HMP 744, Ethical Issues in Health Management and Medicine; and HMP 746, Health Policy. Upper-division courses are not offered every semester and students generally progress through these courses in a sequential order.

#### *Field Practicum:*

A full-time practicum (or administrative internship) that integrates class work with a supervised managerial work experience constitutes an essential part of the academic program. It allows students to explore an area of special interest in depth. Courses comprising this component of the major include: HMP 621, Prepracticum Seminar; HMP 622, Field Practicum; and HMP 623, Post Practicum Seminar. The practicum is divided into three concurrent components: A. Field Practicum Organizational Analysis; B. Field Practicum Management Skills Development; and C. Field Practicum Project Analysis. Field practicum sites are selected by faculty with student involvement and are concentrated in central and northern New England. Given sufficient timing of student request, efforts will be made to arrange practica at distant sites based on special needs.

HMP field practica currently occur during the summer between the junior and senior year in the major. They begin in late May and end in late August and require a full-time commitment.

#### *HMP Elective Courses:*

Elective courses within the program may include: HMP 430, Alternative Medicine and Health; HMP 505, Public Health: History and Practice; HMP 569, Human Behavior and the Public Health; HMP 642 Health Economics; HMP 730, Managed Care; HMP 750, Comparative Health Care Systems; and HMP 755, Long Term Care Management and Policy. In addition, seniors may have the opportunity to elect independent studies (HMP 796) through individual arrangements with HMP faculty. Majors are encouraged to enroll in one or more of these courses before graduation.

#### Academic Requirements

HMP majors must obtain a minimum of a C- in all HMP core courses and must pass all HMP-required collateral courses. Majors must have an overall grade-point average of 2.50 by the end of the semester preceding their practicum. Students not maintaining an overall grade-point average of 2.50 are reevaluated by the faculty and may be counseled into another major area of study at the University.

The faculty reviews student performances during the semester before the practicum to determine each student's readiness. Students who do

not successfully complete prerequisite courses may not be permitted to advance through subsequent courses in the major.

#### **Applications for Major**

Students interested in additional information or in applying for admission to the health management and policy major are encouraged to contact the department's director of undergraduate studies. Students seeking internal transfer into the major must complete an internal transfer application form and meet with the director of undergraduate studies. Efforts should be made to complete this process during the freshman year or early in the sophomore year to ensure sufficient time to complete all of the required collateral courses as well as those in the major in a timely and efficient manner.

#### **Honors in Major**

The department offers an Honors in Major program. To qualify, students must meet the department's requirement of having an overall 3.20 grade-point average at UNH and a 3.30 grade-point average for required HMP courses taken by the end of the junior year. Honors in Major students take honors courses during the last half of junior year and senior year as well as complete an honors project. Students work with a faculty member in the department in the development of the honors project. Students should contact the department's Honors in Major adviser for further information.

#### **Academic Minor in Health Management**

The department offers an integrated minor in health management designed for students majoring in clinically oriented professional programs offered through other departments in the School of Health and Human Services. Students not enrolled in the school who wish to minor in health management may inquire about doing so by contacting the department's director of undergraduate studies. Students accepted into the minor must complete: (1) three required courses (HMP 401, U.S. Health Care Systems; HMP 721, Managing Health Care Organizations; and HMP 710, Financial Management for Clinicians); (2) one HMP elective course (HMP 501, Epidemiology and Community Medicine; HMP 430, Alternative Medicine and Health; HMP 505, Public Health History and Practice; HMP 569, Human Behavior and the Public Health; HMP 642 Health Economics; HMP 744, Ethical Issues in Health Management and Medicine; or HMP 755, Long Term Care Management and Policy; HMP 746, Health Policy; and (3) one additional elective course

from a list approved by the department. Students seeking to minor in health management must complete the application available in the department office and meet with the department's director of undergraduate studies before commencing the minor.

**Kinesiology**

*(For descriptions of courses, see page 180.)*

The mission of the Department of Kinesiology is to generate, transmit, and apply knowledge about the role of physical activity (including exercise, movement, outdoor adventure experiences, and sport) in the advancement of health in society. The department has several teaching, research, and service functions that support this mission, including the preparation of professionals in the five options described below. While options vary in emphasis, each curriculum offers students fundamental knowledge in the following areas: the biological, psychological, and sociocultural foundations and consequences of physical activity; the pedagogical and rehabilitative aspects of physical activity; and the management and marketing of delivery systems in the field. Each option makes extensive use of field experiences and internships that blend theory with practice.

The department offers five areas of study for majors: (1) athletic training, (2) exercise science, (3) outdoor education, (4) sport studies, and (5) physical education pedagogy. Students who wish to minor in kinesiology must complete 20 credits of coursework that have been approved by a department minor adviser. No more than 6 of the 20 credits may be earned through activity or coaching courses.

Students interested in majoring or minoring in kinesiology should consult with the specific option coordinator.

**Athletic Training Option**

An athletic trainer implements injury prevention programs and immediate treatment and rehabilitation procedures for injured individuals as directed by physicians. The Commission on Accreditation of Allied Health Education Programs (CAAHEP) - accredited athletic training option prepares professionals qualified to attend the athlete, the fitness-conscious jogger, or the skilled professional athlete.

Students take coursework in prevention, evaluation, management, care, and rehabilitation of athletic injuries as well as administration, education, and counseling. Students must earn a grade of C (2.00) or better in all KIN required courses and ZOOL 507-508.

Students gain clinical experience in University athletic training rooms and at off-campus clinical sites. Successful completion of the entire program, including 1,000 hours of supervised clinical experience, qualifies students to take the NATA-BOC Certification Exam. Students who wish to pursue both NATA-BOC certification and public school teacher certification should also see the pedagogy option. This double course of study will require between five and six years.

Students are admitted to the University in the athletic training option with conditional status. Specific criteria must be met during the student's first year before he/she may apply for full-time status in the option, which is awarded to those students demonstrating exemplary performance in classes and clinical observations. Additionally, option technical standards establish the qualities considered necessary for students to achieve the knowledge, skills, and competencies associated with the program. Candidates for full-time status will be required to verify they understand and meet these technical standards or that, with reasonable accommodations, they can meet the standards. It is very important that interested students consult with option coordinator, Dan Sedory, regarding entry criteria and the technical standards.

Required Courses	Credits
KIN 506, Concepts of Athletic Training	4
KIN 507, Concepts of Athletic Training Lab	1
KIN 585, Emergency First Responder	4
KIN 620, Physiology of Exercise	4
KIN 652, Clinical Kinesiology	3
KIN 653A, Musculoskeletal Assessment	2
KIN 658, Athletic Training for the Professional I	4
KIN 658 L01, Athletic Training for the Professional I Lab	1
KIN 659, Athletic Training for the Professional II	4
KIN 659 L01, Athletic Training for the Professional II Lab	1
KIN 660, Therapeutic Exercise in Athletic Training	4
KIN 661, Therapeutic Exercise Lab	1
KIN 662, Therapeutic Modalities in Athletic Training	4
KIN 663, Therapeutic Modalities Lab	1
KIN 665, Laboratory Practicum in Athletic Training	2
665A, Level I	2
665B, Level II	2
665C, Level III	2
665D, Level IV	2
665E, Level V	2
KIN 667, Pharmacology in Athletic Training	2
KIN 710, Organization and Administration of Athletic Training Programs	4
KIN 715, Seminar in Athletic Training	4
KIN 718, Career Preparation in Athletic Training	4
KIN 780, Psychological Factors in Sport	4

**University Required Courses**

NUTR 400, Nutrition in Health and Well Being	4
PSYC 401, Introduction to Psychology	4
Statistics Course	4
ZOOL 507-508, Human Anatomy and Physiology	8

**Exercise Science Option**

This curriculum prepares individuals for career opportunities in fitness and health promotion programs in hospitals, industry, and communities. Exercise scientists work in physical activity programs of prevention, intervention, and rehabilitation. Students must earn a grade of C (2.00) or better in every required course. Students may repeat a required course only once. Failure to achieve a grade of C (2.00) or better on this repeat will result in separation from the Exercise Science Option. All required courses must be completed before enrolling in KIN 650. Interested students should consult with the option coordinator, Timothy Quinn.

Required Courses	Credits
KIN 585, Emergency First Responder	4
KIN 620, Physiology of Exercise	4
KIN 621, Exercise Laboratory Techniques	3
KIN 650, Exercise Science Internship	8
KIN 652, Clinical Kinesiology	3
KIN 653A, Musculoskeletal Assessment	2
KIN 704, Electrocardiography	4
KIN 705, Topics in Applied Physiology	4
KIN 720, Science & Practice of Strength Training	4
KIN 724, Metabolic Adaptations to Exercise	4
KIN 736, Fitness and Graded Exercise Testing & Prescription	4
KIN 737, Personal Training and Exercise Leadership	4
KIN 794, Practicum in Cardiac Rehabilitation	3

**University Required Courses**

One course chosen from SOC 502, PSYC 402, or HHS 540	4
CHEM 403-404, General Chemistry	8
CS 403, Online Network Applications	4
NUTR 400, Nutrition in Health and Well Being	4
PSYC 401, Introduction to Psychology	4
ZOOL 507-508, Human Anatomy and Physiology	8

**Outdoor Education Option**

The outdoor education option prepares individuals for careers in the educational, managerial, and/or therapeutic aspects of physical activity in natural and challenging environments. The option is interdisciplinary in scope, uses the various natural resources in seacoast and mountain areas, and provides students ample opportunity for practical application and field experience. Students must earn a grade of C (2.00) or better in every required course. In addition they must complete 100 days of documented leadership experience prior to be-

ginning an internship. Interested undergraduate students should consult with the undergraduate curriculum coordinator, Deb Sugerman.

Required Courses	Credits
KIN 540, Top Rope Rock Climbing	2
KIN 541, Management of Challenge Course	4
KIN 543, Winter Backpacking	2
KIN 550, Outdoor Education Philosophy and Methods	4
KIN 551, Adventure Programming: Backcountry Based Experiences	3
KIN 552, Adventure Programming: Water Based Experiences	3
KIN 681, Theory of Adventure Education	4
KIN 682, Outdoor Leadership	4
KIN 684, Emergency Medical Care: Principles and Practices	3
KIN 685, Emergency Medical Care: Principles and Practices Lab	2
KIN 686, Wilderness Emergency Medical Care	4
KIN 687, Leadership Practicum	4
KIN 786, Organization and Administration of Outdoor Education	4
KIN 650, Internship* (2-4) Cr/F	

*\*Note: Proof of 100 days of leadership experience is required prior to taking this course.*

**Elective Courses (must successfully complete at least one)**

KIN 545, High Angle Rescue	2
KIN 546, Whitewater Canoeing	3
KIN 547, Lead Rock Climbing	3
KIN 548, High Altitude Mountaineering	4
KIN 549, Wilderness Programming Skills	4-8
KIN 782, Therapeutic Applications of Adventure Programming	4
KIN 693C, Teaching Assistantship 2	Cr/F

**University Required Courses**

ENGL 501, Introduction to Prose Writing	4
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*Other: Core of courses emphasizing the particular area or population in outdoor education of interest to student, e.g., business, education, psychology-selected with assistance of an adviser*

**Sport Studies Option**

Sport studies is an interdisciplinary option in the Department of Kinesiology that provides a foundation for a variety of career paths in school and college athletics, including coaching, administration, marketing, and sports information. The major also prepares students for further graduate study in areas such as sport psychology. Students take a core of foundation courses (e.g., The Sport Industry) as well as electives in applied areas such as sport marketing, athletic administration, and sport psychology. Students must earn a grade of C (2.0) or better in each required University and KIN course. Cognate courses are required in supporting areas such as business, psychology, or in any other approved areas. In

addition, an internship experience or independent study is required. An internship experience is strongly recommended since it is often critical to career development. Interested students should consult with the option coordinator, Stephen Hardy.

Required Courses	Credits
KIN 562, Introduction to Sports Information	4
KIN 565, Principles of Coaching	4
KIN 580, The Sport Industry	4
KIN 750, Theories of Motivation in Sport	4
KIN 741, Social Issues in Contemporary Sports	4
KIN 761, Senior Seminar in Sport Studies	4

**Electives**  
Sixteen credits of approved sport studies electives to include KIN 650 or KIN 696.

**University Required Courses**

CS 401, Computer Applications	4
SOC 400, Introductory Sociology	4
One approved statistics course	4

**Cognate Requirement (outside of Department of Kinesiology)**  
Students must select a second major, a minor, or a package of cognate courses approved by the faculty (minimum 20 credits). Suggested areas are administration, communication, economics, English, history, psychology, and sociology.

**Physical Education Pedagogy Option**

Pedagogy is the art and science of teaching. This option integrates a general education background with the theoretical and process knowledge involved in teaching movement and physical activity-based elementary, middle, and secondary physical education programs. Extensive practicum experiences prepare students to teach preschool children, school-aged youth, and young adults, including students with developmental disabilities.

The physical education pedagogy option provides the foundation for public school teacher certification through the Department of Education's fifth-year program. All fifth-year candidates must meet the requirements for admission to graduate school (e.g., grade-point average of 2.67 or above and 900 or above on the Graduate Record Examination) (see page 31). Students not seeking certification will find a bachelor's degree a solid basis for successful teaching or coaching in settings such as athletic or fitness clubs, YWCAs and YMCAs, boys' and girls' clubs, private schools, or resorts.

Internal transfer candidates must have a minimum grade-point average of 2.50. All physical education pedagogy option students must receive a "C" grade (2.00) or better in KIN 563, Middle School and Secondary PE Pedagogy; KIN 606, Middle School and

Secondary PE Practicum; KIN 692, Elementary PE Pedagogy; KIN 781, Special PE Pedagogy; and KIN 783, Elementary PE Practicum. Students who accumulate a total of three grades below C (2.00) in required departmental courses will be separated from the pedagogy major. A student may complete a required class only once.

Interested students should consult with the option coordinator, Steven Wright.

Required Courses	Credits
KIN 500, Historical and Contemporary Issues in Physical Education	4
KIN 504, Skill Analysis and Assessment	4
KIN 527, Scientific Foundations of Health and Fitness	4
KIN 563, Middle School and Secondary Physical Education Pedagogy	4
KIN 600, Movement Fundamentals	4
KIN 601, Lifetime Sports	3
KIN 602, Adventure Activities	3
KIN 603, Team Sports	3
KIN 604, Modern Dance	4
KIN 606, Middle School and Secondary Physical Education Practicum	4
KIN 608, Track and Field	1.5
KIN 609, Gymnastics	1.5
KIN 620, Physiology of Exercise	4
KIN 652, Clinical Kinesiology	3
KIN 653B, Biomechanical Analysis of Movement	2
KIN 675, Motor Development and Learning	4
KIN 692, Elementary Physical Education Pedagogy	4
KIN 780, Psychological Factors in Sport	4
KIN 781, Special Physical Education Pedagogy	4
KIN 783, Elementary Physical Education Practicum	4

**University Required Courses**

EDUC 500, Exploring Teaching	4
PSYC 401, Introduction to Psychology	4
ZOOL 507-508, Human Anatomy and Physiology	8

**Nursing**

(For descriptions of courses, see page 209.)  
The nursing program is nationally accredited. It reflects the mission and goals of the University and focuses on the uniqueness of each individual. The mission of the Department of Nursing is to enhance the health of individuals, families, groups, and communities. The philosophy expresses the beliefs of the faculty regarding person, environment, health, nursing, and education. Its goals are to help nursing students develop knowledge and skills essential to the present and future practice of nursing. Graduates of the program are prepared to provide care to individuals and groups, help people identify and meet their health care needs, be effective colleagues on the health care team, and shape the future of health care.

The curriculum is divided into biological, social sciences, and humanities as a foundation for courses in the major; and nursing courses, which emphasize caring, critical thinking, problem solving, decision making, and developing clinical skills. Clinical experiences are offered in area hospitals and in community health agencies. The senior year culminates in a practicum in which students apply curriculum concepts to an interest area of their choice.

The faculty of the nursing program believe learning is a creative process wherein students are active participants in their education, growth, and development as professional nurses. Faculty members are facilitators and mentors to students within a supportive, scholarly environment.

Honors in major courses are offered to interested nursing students who have achieved a minimum cumulative grade-point average of 3.20.

The following prerequisite courses must be completed successfully prior to the first clinical course, NURS 514, Techniques of Clinical Nursing: ENGL 401; ZOOL 507-508; NUTR 400; PSYC 401; MICR 501; and NURS 501. A course in statistics must be completed prior to, or taken concurrent with, NURS 645, Nursing Research. Prerequisite courses require grades of C or better and only one prerequisite course may be repeated one time in order to achieve successful completion.

Most of the prerequisite courses also meet general education requirements. A cumulative grade-point average of 2.50 must be attained prior to NURS 514 and maintained throughout the program. Major courses require a minimum grade of C.

Students are responsible for their own transportation to clinical agencies, uniforms, professional equipment, liability and health insurance coverage, and selected immunizations. Additional costs associated with the program include laboratory fees each semester beginning in sophomore year and fees associated with attendance at professional meetings. Students must be certified in cardiopulmonary resuscitation before the first clinical course and recertified as necessary until graduation.

Freshman Year	Fall	Spring
ZOOL 507-508, Human Anatomy and Physiology	4	4
NUTR 400, Nutrition in Health and Well Being	4	-
ENGL 401, Freshman English	4	-
PSYC 401, Introduction to Psychology	-	4
Electives (3)	4	8
<b>Total</b>	<b>16</b>	<b>16</b>

**Sophomore Year**

MICR 501, Microbes in Human Disease	4	-
NURS 501, Introduction to Nursing	4	-
One course in statistics*	4	-
NURS 502, Concepts of Pathophysiology/Pharmacology	-	4
NURS 508, Foundations of Nursing Judgment	-	4
NURS 514, Techniques of Clinical Nursing	-	4
Electives (2)	4	4
<b>Total</b>	<b>16</b>	<b>16</b>

**Junior Year**

NURS 615, Care of the Adult	8	-
NURS 619, Clinical Decision Making I	4	-
NURS 620, Caring for the Childbearing and Childrearing Family	-	8
or NURS 618, Caring for People with Alterations in Mental Health, and NURS 624, Nursing in the Community	-	4
NURS 622, Clinical Decision Making II	-	4
NURS 645, Nursing Research	4	-
Elective	4	-
<b>Total</b>	<b>16</b>	<b>16</b>

**Senior Year**

NURS 703, Nursing Leadership/Management and the Organizational Context	4	-
NURS 618, Caring for People with Alterations in Mental Health, and NURS 624, Nursing in the Community	4	-
or NURS 620, Caring for the Childbearing and Childrearing Family,	8	-
NURS 720, Professional Nursing Practice: Transitions	-	8
Electives 3	4	8
<b>Total</b>	<b>16</b>	<b>16</b>

\*HHS 540, PSYC 402, SOC 502, etc.

**R.N. Baccalaureate Program**

Registered nurses with a valid registered nurse license who meet University admission criteria may pursue, on a full- or part-time basis, a bachelor of science degree with a major in nursing at UNH in Durham, Keene, or at Manchester.

Curriculum requirements may be met through transfer credits, course enrollments, and challenge examinations. An R.N. license and one year of practice experience are required for all nursing coursework.

The nursing component is based on the belief that R.N. students enter the program with knowledge and competence gained through previous educational and work experiences. This knowledge and competence can be demonstrated through completion of required baccalaureate-level nursing courses. Individualized plans of study are developed to enable completion of nursing content.

The R.N. student must earn a minimum of 128 credits and have a 2.50 cumulative grade-point average in order to enroll in clinical nursing courses and maintain that grade-point average throughout their coursework. A minimum grade of C is required in each nursing course.

Interested R.N.s should consult with the R.N. program coordinator at Keene or Manchester.

**Occupational Therapy**

(For descriptions of courses, see page 211.)

Occupational therapy enables people to participate in daily life activities including leisure, work, self-care, and home management. Occupational therapists work with people of all ages to gain or regain skills and abilities or adapt tasks within their natural environment. Occupational therapy education includes studies in liberal arts, biological, behavioral, and health sciences, and occupational science and occupational therapy.

The occupational therapy program is accredited by the Accreditation Council for Occupational Therapy Education (ACOTE). ACOTE is located at the American Occupational Therapy Association, 4720 Montgomery Lane, P. O. Box 31220, Bethesda, MD 20824-1220. ACOTE's phone number is (301) 652-2682. Graduates from an accredited program are eligible to sit for the Certification Examination for the Occupational Therapist administered by the National Board for Certification in Occupational Therapy, Inc. (NBCOT). After successful completion of this exam, the individual will be a registered occupational therapist (OTR). Most states require licensure in order to practice; however, state licenses are usually based on the results of the NBCOT Certification Examination.

**Combined Bachelor of Science/Master of Science Program**

Effective January 1, 2007, graduates of professional programs must complete a professional master's degree in occupational therapy in order to enter the field. The University of New Hampshire Department of Occupational Therapy offers a combined bachelor's degree/master's degree program. Students may enter as freshmen or transfer into the B.S./M.S. program during their sophomore or junior year, space permitting in the program. Students interested in transferring into this program should contact the Department of Occupational Therapy for information about transfer requirements and application deadlines. After successful completion of 128 credits of

coursework, including required courses for the major in occupational therapy, students will be awarded a bachelor's degree in occupational therapy.

Students desiring to become registered occupational therapists will apply for admission to the graduate school during their senior year. Students will be admitted into the master's program based on admission requirements for the program and program capacity. Students admitted to the entry-level master's program will begin taking occupational therapy courses in their senior year that apply to both their bachelor's degree and master's degree. Students will then continue their professional education for an additional year and two summers, which includes academic coursework and six months of required level II fieldwork. After successful completion of all academic work and fieldwork, students will receive a Master of Science in Occupational Therapy. They will then be eligible to sit for the certification examination administered by the National Board of Certification of Occupational Therapists (NBCOT). Please refer to the *Graduate Catalog* for additional information about the master's program and the fifth year of the occupational therapy curriculum including fieldwork requirements.

To receive a bachelor's degree in occupational therapy in the B.S./M.S. program, students take the following core courses during their first three years:

ENGL 401, Freshman English  
 PSYC 401, Introduction to Psychology  
 ZOOL 507 and 508, Human Anatomy and Physiology  
 Social Sciences courses: three courses  
 OT 500, The Behavior and Development of Children  
 OT 501, Development Tasks of Adulthood  
 OT 510, Exploring Occupational Therapy  
 OT 685, Psychosocial Disorders and Everyday Life  
 KIN 706 and 707, Neurology and Neurology Lab  
 Statistics

Additionally, elective courses need to include: (1) an experiential learning course for four credits, (2) a health or social policy course, and (3) a minor or self-designed concentration area that relates to health and human services for a total of 20 credits.

During the senior year, students begin the professional curriculum and complete the following courses:

OT 741, Human Occupation I  
 OT 742, Human Occupation II  
 OT 751, Mind Body Systems Neurologically-based Function and Dysfunction  
 OT 752, Human Movement in Occupations  
 OT 761, Occupational Therapy: Professional Roles and Principles of Practice

OT 762, Occupational Therapy Evaluation and Intervention I  
 OT 771, Occupation-based Program Development in the Community I  
 OT 772, Occupation-based Program Development in the Community II

Students are responsible for transportation to off-campus practicum and fieldwork locations and must purchase personal liability insurance for coverage for the practical components of the curriculum.

Curriculum review and revision is undertaken annually. The Department of Occupational Therapy works closely with students during academic advising sessions and shares information about policy and requirement changes during registration periods as well as throughout the academic year. Students are also expected to take an active role in verifying expectations and should check with their department advisers each September for updated policies and requirements. Program requirements and policies for retention in the major are published annually in the *OT Department Policy and Procedure Manual*, which is distributed to all new students. Students are expected to insure they have updated information on the department's current policies and procedures.

### Recreation Management and Policy

(For descriptions of courses, see page 223.)

As the fabric of life in contemporary society grows in complexity, people are increasingly turning to leisure and recreation services to find meaning, renewal, and enrichment. Recreation services can improve the public health, develop a sense of community, and enhance the quality of life of all citizens. Recreation professionals work in diverse settings including human services, health care, natural recreation resource areas such as parks, and commercial recreation businesses. Graduates are employed by community recreation agencies, resorts, conference centers, youth services agencies, hospitals, rehabilitation centers and long-term care facilities. Population and economic projections suggest that recreation service industries will continue to expand and thereby continue to provide numerous professional career opportunities. The Department of Recreation Management and Policy is nationally accredited by the National Recreation and Parks Association/American Association of Leisure and Recreation. The department's curriculum supports a broad-based liberal education and an opportunity to acquire specialized professional knowledge and skills.

### Curriculum Structure

Students entering the major may choose either: (1) program administration, which includes the professional core and required courses related to program administration, or (2) a specialized option in therapeutic recreation, which includes the professional core and required courses in therapeutic recreation.

### International Study in Recreation and Leisure

A semester abroad sponsored by the American Universities International Program is available to students pursuing a degree in recreation management and policy. Programs in Scotland, Australia, New Zealand, South Africa, or Belize provide discipline-related exchange opportunities. Approval by the curriculum director is required approximately one year before departure. Eleven transfer credits can be granted. Other destinations can be negotiated through the Center for International Education on campus.

### Core Courses

All majors must complete a core curriculum of eight courses: RMP 490, Recreation and Leisure in Society; RMP 501, Recreation Services for Individuals with Disabilities; RMP 557, Recreation Services Program Design and Planning; RMP 563, Recreation Management and Policy Practicum; RMP 654, Professional Development and Ethics; RMP 663, Management and Policy in Leisure Services; RMP 664 (A or B), Professional Internship; RMP 724, Grantsmanship, Evaluation, and Research; and RMP 772, Law and Public Policy in Leisure Services.

A supervised internship (RMP 664) is required of all majors. The internship is designed to create a bridge between theory and practical application. Students working with their advisers and the internship coordinator select an appropriate setting based on their professional and career interests. They must complete a minimum of 560 hours of supervised field study within fourteen weeks. Specific requirements are identified in the Internship Manual available from the Department of Recreation Management and Policy.

### Program Administration Option

This option prepares students for managerial positions in commercial, public and non-profit organizations that provide recreation and leisure services. Curriculum design emphasizes the effective and efficient planning, delivery, and evaluation of leisure-based programs, services, and enterprises. Applied ex-



perience is a component of most courses in addition to a required practicum and the 14-16 week full-time internship under professional supervision. Depending upon the RMP electives and the career support emphasis or minor chosen, students may expect to find employment in a broad range of settings. Recent graduates have found employment in the areas of conference and meeting planning, municipal park and recreation services, recreational youth sports, commercial/entrepreneurial recreation businesses, youth serving agencies, resorts, and natural resource management positions in state and federal agencies.

In addition to the required core courses, students who pursue the program administration option must complete the following departmental requirements: RMP 558, Program Supervision and Leadership; RMP 665, Applied Marketing and Communication in Recreation Services; two RMP course electives; CS 401, Computer Applications, or an approved equivalent; HHS 540 or other descriptive statistics; PSYC 401, Introduction to Psychology; FS 525, Human Development; or SW 550. Program administration students must complete a minor or emphasis area of 18-20 credits to support their specific career goals.

### ***Therapeutic Recreation Option***

Therapeutic recreation utilizes recreation to help people with disabilities or illnesses to develop and use their leisure in ways that enhance health, independence, and well-being. Therapeutic recreation recognizes the importance of quality of life and uses activities to remediate or rehabilitate functional abilities. Therapeutic recreation services are provided in a variety of settings including: hospitals, long-term care facilities, residential treatment facilities, schools, home health care, community recreation, correctional facilities, rehabilitation centers, camp and outdoor education centers, and adult day programs. Observation and applied experience is a component of several courses. Students complete a 14- to 16-week full-time clinical internship under the supervision of a Certified Therapeutic Recreation Specialist (CTRS). Students must purchase personal liability insurance for coverage for the clinical components of the curriculum. The Bureau of Labor Statistics reports that therapeutic recreation is one of the fourteen fastest growing occupations in the country. The occupational outlook statistics reflect a "39 percent increase in demand for recreational therapists with strong clinical backgrounds" for the beginning of the twenty-first century. Upon successful completion of

this option, students are prepared to meet sitting requirements for the National Council for Therapeutic Recreation Certification Examination.

In addition to the required core courses, students who choose this option must complete the following departmental requirements: RMP 502, Foundations of Therapeutic Recreation; RMP 503, Therapeutic Recreation Rehabilitation Principles and Interventions; RMP 504, Therapeutic Recreation Mental Health Principles and Interventions; RMP 603, Assessment and Treatment Planning in Therapeutic Recreation; RMP 604, Therapeutic Communication and Facilitation Techniques in Therapeutic Recreation; CS 401, Computer Applications or approved equivalent; HHS 540, or equivalent; PSYC 561, Abnormal Behavior; FS 525, Human Development; ZOOL 507-508, Human Anatomy and Physiology; KIN 652, Clinical Kinesiology, and KIN 653A, Musculoskeletal Assessment.

### ***Criteria for Admission and Retention***

Internal transfer students interested in applying to the major must meet with an RMP faculty member prior to receiving an application for admission to the major. Transfer applications are accepted throughout the year. Applications can be obtained from the Department of Recreation Management and Policy. Students within the major are required to maintain a minimum 2.50 semester grade-point average every semester to retain good academic standing within the major. In addition, student majors must obtain a grade of C (2.00) or better in RMP courses and a grade of C- (1.67) or better in all other courses specifically required by the department.

### **Social Work**

*(For descriptions of courses, see page 226.)*

The Department of Social Work's undergraduate program offers both a major and a minor in social work. It is a specialized degree that prepares graduates for generalist social work practice with a solid foundation in the knowledge, skills, and value base of social work and the liberal arts. Social work graduates apply their education in working with individuals, groups, and social systems. In addition, the program prepares qualified students to pursue graduate education in schools of social work and other graduate programs in human services.

The baccalaureate program at the University of New Hampshire is accredited by the Council on Social Work Education (CSWE) and must meet rigorous academic

standards to retain this accreditation. Social work majors pursue a program that encompasses the professional social work foundation of social welfare policy, social work practice, human behavior in the social environment, research, and field education. Course content on values and ethics, populations-at-risk, human diversity, and social and economic justice is integrated throughout the curriculum.

To enable students to gain direct experience and to integrate classroom content with the demands of professional social work practice, students complete an introductory-year field observation as well as a 450-hour social work internship over two semesters during the senior year. The senior field placement is a "capstone" experience in the final year of the baccalaureate program and is arranged between the student and the field education coordinator. Students are required to pay a liability insurance fee for their off-campus field education experience.

Social work majors earn the B.A. degree with a notation on their University records, "majored in social work." This is equivalent to a B.S.W. degree. Graduates are eligible for practice in a variety of social work settings throughout the United States and full membership in the National Association of Social Workers. In addition, qualified graduates may be eligible for advanced standing in M.S.W. programs which offer advanced standing.

### ***Academic Program***

Social work majors are required to take ZOOL 401; SW 524, 525, 550, 551, 601, 622, 623, 640, 640A, 641, 641A. In addition, students are expected to successfully complete four courses taken from the disciplines of anthropology/sociology, macroeconomics, philosophy, and psychology. Many of these may also fulfill general education requirements. Students wishing to minor in social work are required to take SW 524, SW 525 and any three other courses offered by the department, excluding SW 640, 641. Students interested in either a major or minor in social work should consult with the undergraduate program coordinator, Martha Byam, Pettee Hall, Room 231, (603) 862-1799.