

College of Human Development and Education

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Virginia L. Clark Johnson, Dean

The College of Human Development and Education was established July, 1992. There are five units in the college: Apparel, Design, Facility and Hospitality Management; Child Development and Family Science; Education; Food and Nutrition; and Health, Nutrition and Exercise Sciences. Students are prepared for careers in education, colleges and universities, business and industry, community services, hospitals and health care facilities, and public and private programs concerned with design, human welfare, fitness, and recreation.

Mission

The mission of the College of Human Development and Education is to provide educational programs and conduct research and other scholarly activities that focus on the lives of individuals and their families as they interact in work, educational, and living environments.

Opportunities are provided to broaden the student's understanding and appreciation of the aesthetic, cultural, economic, physical, psychological, and social elements that influence individual and family well-being. Programs are designed to help each student develop professional competencies, attain a liberal education, and relate the learnings from the basic disciplines to various applications.

Accreditation

The Center for Child Development is accredited by the National Association for the Education of Young Children. The marriage and family therapy program is accredited by the Council on Accreditation for Marriage and Family Therapy Education. The athletic training program is certified by the National Athletic Training Association. The School of Education is accredited by the National Council for Accreditation of Teacher Education. The school counseling and community counseling programs are accredited by the Council for the Accreditation of Counseling and Related Educational Programs. The dietetics program is accredited by the American Dietetic Association. The interior design program is accredited by the Foundation for Interior Design Education Research and the facility management curriculum meets guidelines set by the International Facility Management Association.

Degree Programs

Undergraduate programs in the college lead to a Bachelor of Science or a Bachelor of Arts degree. Recommendation of candidates for teacher certification also rests within this college through the School of Education.

Graduate study leading to a Master of Science degree is offered in Child Development and Family Science, Counseling and Guidance, Educational Administration, Sport and Recreation Management, Exercise Sciences Nutrition, Physical Education, and Teacher Education. A Master of Education degree may be earned through Health, Nutrition and Exercise Sciences and the School of Education. A graduate minor also is available in several of the preceding units. Refer to the Graduate Bulletin for details.

Degree Requirements

Students enrolled in major programs in the college are required to follow curriculum guidelines available in the Student Services Office of the college (260 EML) or department offices for each of the curriculum options and majors. Course requirements in each program fulfill university, college, and departmental requirements. Refer also to graduation requirements and related information listed earlier in the Academic Policies section.

All undergraduate degree candidates must apply for graduation through the Office of the Registrar according to University procedures and deadlines.

Courses taken pass/fail will not be used to satisfy any requirements other than total credits. Departments may have additional restrictions. Approval must be obtained and processed during the first three weeks of the regular semester. Once processed, a course cannot be changed back to regular grading.

Mathematics 099 and 102 are developmental courses and will not count toward credits for graduation in any program.

General college requirements for the two undergraduate degrees extend beyond the minimum University general education requirements. An adviser should be consulted for specific courses. Students are also encouraged to follow their own interests in choosing electives that go beyond the minimum requirements. Minimum requirements for each degree include the following:



Bachelor of Science Degree

General Education:	Credits
First-year experience	1
Communication	9
Comm 110. (3)	
Engl 110, 120 (6)	
Quantitative Reasoning	3
Math 104, 146 or higher, or CSci: programming course or Stat 330	
Science and Technology	10
A laboratory course must be taken as a corequisite with one course.	
Humanities and Fine Arts	6
Social and Behavioral Sciences	6
Wellness	2

Requirements also include a course in Cultural Diversity, a course in Global Perspectives, and integration of the following within existing courses: computer usage, communication activities in upper-division major courses, comprehension of personal and professional ethics, and a capstone experience.

These courses, professional courses for the major, and electives must total a minimum of 122 credits to meet degree requirements.

Bachelor of Arts Degree

In addition to all of the preceding requirements listed for the Bachelor of Science degree, Bachelor of Arts degree requirements also include the following:

- Six (6) additional credits of humanities and social behavioral sciences
- Two years of one modern foreign language at the college level or equivalent

Students with two units/years of a foreign language in high school should enter the second year college-level language course. Students with four or more units/years of a foreign language in high school or college will be considered to have completed the language requirement.

Curriculum Majors and Options

Apparel and Textiles
Athletic Training
Child Development and Family Science
Dietetics Option
Facility Management
Food and Nutrition
Hospitality and Tourism Management
Human Performance and Fitness
Interior Design
Physical Education
Recreation Management
Retail Merchandising Option
Secondary Education:
 Agricultural Education
 Biological Sciences
 Chemistry
 Comprehensive Science
 English
 Family and Consumer Sciences Education
 French
 Geology Education
 History
 Mathematics

Music (K-12)
Physical Education (K-12)
Physics
Social Science
Sociology
Spanish
Speech Communication

An elementary education program is available through the cooperation of Valley City State University, the degree-granting institution for this program.

Minors and Options

A minimum of 18 credits is required for a minor in child development and family science; 23 credits in food and nutrition; 20-21 credits in health education; 22 credits in hospitality and tourism management; 16 credits for an individual and family wellness minor; 22 credits in apparel and textiles with retail merchandising or consumer textiles emphasis; 17 credits in facility management; 22-25 credits in interior design, 19 credits for a nutrition minor, and 20 credits for a physical education minor. Information on specific minor requirements may be obtained from unit chairs and/or the Office of Student Services within the college. Minors may also be taken in other departments within the University.

Special Opportunities

Special opportunities available to students in the college include the following.

Professional Organizations

Student chapters of professional organizations are available for membership in accordance with their respective bylaws:

American Association of Family and Consumer Sciences (AAFCS)
American Society of Interior Designers (ASID)
Association for Leisure and Recreation
Child Development and Family Science Club
Eta Sigma Delta (honorary)
Fashion, Apparel, and Business Organization (FABO)
Health, Nutrition and Exercise Sciences Organization
International Facility Management Association (IFMA)
International Food Service Executives Association (IFSEA)
Phi Upsilon Omicron (honorary)
Student Dietetic Association (SDA)
Student North Dakota Education Association (SNDEA)

Additional information is available from the student services office in the college (260 EML).

Dean's Student Advisory Council

The Dean's Student Advisory Council acts as a liaison organization between the student body, the faculty, and the Dean of the College of Human Development and Education. The council assists in the promotion of the college. The students are recommended by the Director of Student Services and Development to the Dean. Their selection is based on academics and a willingness to participate. Each of the five units in the college is represented by student members.

Student Advisers

Although each student in the college is assigned a faculty adviser, selected students supplement and complement the existing faculty advisory system. The student adviser program is designed to help incoming and transfer students make the best possible academic and social adjustments to the college and the University. Applications for student advisers are reviewed and selected each spring. Information is available in the student services office of the college (260 EML).

Cooperative Education Program

Several programs in the college participate in the Cooperative Education program to help students find suitable professional experiences in their academic areas during their college preparation. Students earn academic credit for these experiences.

ROTC Programs

Up to 18 elective credits may be earned by participation in the Army or Air Force ROTC program. Men and women may take these programs for elective credit, and in addition they may complete either program and receive a commission upon graduation. Students receiving commissions may have the opportunity to serve as officers in the active service or in army reserve components. An additional opportunity for dietetic internships is offered through this program. For more complete details of the ROTC programs and scholarships available, consult the Department of Military Science (Army) or the Department of Aerospace Studies (Air Force).

Interdisciplinary Minors

Interdisciplinary study involves an integration of more than one perspective on a topic. Programs in two interdisciplinary minors are available: gerontology and women's studies.

Gerontology Minor

The College of Human Development and Education and the College of Arts, Humanities, and Social Sciences at NDSU sponsor this program. Tri-College University resources are used to provide students with an integrated understanding of the process of aging, aging services, and the aged in America. There are six basic areas of study. Students should follow the directions provided for each of the areas.

Note: CC = Concordia College

MSUM = Minnesota State University-Moorhead

NDSU = North Dakota State University

Area 1: Social Gerontology Credits

Select one of the following courses:

Soc 351, Aging in Society (CC)	Full course
Soc 308, Intro to Gerontology (MSUM)	3
Soc 440, Sociology of Aging (NDSU)	3

Area 2: Developmental Psychology of Aging

Select one of the following courses:

CDFS 460, Adult Development and Aging (NDSU)	3
Psyc 403, Adulthood and Aging (MSUM)	3
Psyc 471, The Psychology of Aging (NDSU)	3

Area 3: Aging and Health

Select one of the following courses:

Anth 302, Cultural Aspects of Aging (MSUM)	3
HNES 452, Nutrition, Health and Aging (NDSU)	3
Soc 426, Sociology of Medicine (NDSU)	3

Area 4: Macrosystems

Select one of the following courses:

CDFS 478, Financial and Consumer Issues of Aging (NDSU)	3
CDFS 482, Family Dynamics of Aging (NDSU)	3
Soc 410, Gerontology: Policy and Practice (MSUM)	4

Area 5: Internship/Practicum

Each student must complete the equivalent of 4 semester credits of internship-practicum. Gregory Sanders, Ph.D., coordinates gerontology internships in the department.

Area 6: Electives

One additional elective course is required for the minor. Select this course from the following list.

Anth 302, Cultural Aspects of Aging (MSUM)	3
Biol 303, Biomedical Ethics (CC)	Full course
CDFS 491, Seminar/Aging related (NDSU)	Var
H&CE 468, Family Life and Adult Education Programs (NDSU)	3
HNES 427, Leisure and Society (NDSU)	3
Phil 211, Morals and Medicine (MSUM)	3
Soc 441, Sociology of Death (NDSU)	3
Soc 442, Current Issues in Medicine (NDSU)	3
Soc 491, Seminar/Aging related (NDSU)	Var
Total minimum	19

Women's Studies Minor

The women's studies minor is an interdisciplinary program appropriate as a complement to various majors. This minor is particularly useful in acquiring perspectives that complement traditional studies for developing leadership roles or for pursuing careers that involve women's concerns. A student selecting this minor must complete the following requirements:

Required core courses: Credits

WS 350, Perspectives in Women's Studies	3
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AND

Three of the following courses:

ADFH 382, Women in Management	3
CDFS 242, Marriage and the Family	3
CDFS 468, Women in Economic Systems	3
Engl 330, British and American Women Writers	3
Engl 331, Contemporary Women Writers	3
Hist 260, Women in America	3
PolS 351, Women in Politics	3
Soc 412, Sociology of Sex Roles	3
Soc 413, Sociology of Work	3
Soc 424, Feminist Theory and Discourse	3

Elective courses (Additional credits, for a total of 18 credits including any course(s) listed above, but not taken for core credit)

Credits

CDFS 230, Life Span Development	3
CDFS 353, Children, Families, and Public Policy	3
CDFS 462, Family Crisis	3
CDFS 475, Children and Families Across Cultures	2
Hist 265, Families in America	3
Psyc 210, Human Sexuality	3
Psyc 250, Developmental Psychology	3
Soc 202, Minorities and Race Relations	3
Soc 417, Sociology of the Family	3
Soc 439, Social Change	3
Univ 491, Women's Week of Awareness	1
494 Independent Study in appropriate area	1-3
Total minimum	18

At least 3 credits must be taken in each of the two colleges offering the minor—the College of Human Development and Education and the College of Arts, Humanities, and Social Sciences.

Apparel, Design, Facility and Hospitality Management

Students graduating with majors in apparel and textiles, facility management, hospitality and tourism management, or interior design have a general education and specialized career preparation. Interdisciplinary curricula in the Department of Apparel, Design, Facility and Hospitality Management may build upon economics and business, art, behavioral sciences, or natural sciences. The department offers four majors: apparel and textiles, facility management, hospitality and tourism management, and interior design. Two options are available within apparel and textiles: apparel studies and retail merchandising. The retail merchandising option offers two emphasis areas: interior retail merchandising and textile product retail merchandising. Minors also are available in each program. For more information about any of the programs, contact the department. New students are advised to contact the department prior to beginning their college work.

Apparel and Textiles Major

Students are prepared for a variety of careers in the apparel and textile industry that range from product conception through distribution to the consumer. The apparel and textiles program focuses on both national and international aspects of the apparel and textile industry. This includes product development, manufacturing, quality control, wholesaling, retail merchandising, marketing, and product preservation.

Note: Apparel and textiles transfer courses from other institutions must have grades of C or better to be accepted for the apparel and textiles program at NDSU.

Apparel Studies Option: This option prepares students for careers in theatre costuming, costume curatorship, fashion journalism, product development, and other aspects of the fashion industry, depending on their focus. Students who choose this option must earn a minor from another department. For example, to pursue a museum position as a costume curator, a minor in history should be chosen.

Retail Merchandising Option: This option prepares students for buying, promotion, and retail or human resource management in retail stores. A minor in business administration and a field experience to reinforce classroom instruction are required with this option. Students have flexibility in creating a program focus by selecting one of the following emphasis areas:

Interior Retail Merchandising Emphasis

Area: This emphasis prepares students for career opportunities in retail and wholesale home and office furnishing businesses.

Textile Product Retail Merchandising

Emphasis Area: This emphasis prepares students for introductory management or buying positions in retail.

Facility Management Major

Students are prepared to coordinate the physical workplace with the people and work of an organization by learning to integrate concepts from the disciplines of environmental design, specifically in relation to building systems, space planning, and textile product specification; business administration; and behavioral and engineering sciences as they relate to project and construction management. Facility managers are an important link in the integration of telecommunications, information management systems, maintenance, security and general administrative services for hospitals, hotels, financial institutions, school systems, and large corporations. Planning, management, and decision-making skills are strongly emphasized. In addition, each student is required to complete a full-semester field experience in a professional work setting between the junior and senior year. This provides students with practical experience sought by employers.

The curriculum for this major meets guidelines set by the International Facility Management Association.

Note: Transfer credits in facility management from other institutions must have grades of C or better to be accepted for the facility management program at NDSU.

Hospitality and Tourism Management Major

As the nation's number one employer, the hospitality and tourism industry employs millions of people. The demand for managers has grown and continues to grow as the demand for services grows. Along with this demand for services, is a growing emphasis on comfort, convenience, nutrition, and personalized attention. All of these factors increase the need for effective and efficient professionals to manage hospitality operations and lead teams of people.

In the hospitality and tourism management major, students prepare for a variety of careers in the hospitality industry. Students can choose

a curriculum designed to meet their personal interests for career opportunities: lodging management, or restaurant management. Students with the lodging management option are prepared for management positions in hotels and motels, or can choose elective courses to provide an emphasis designed for working in hotels or resorts with large spa facilities. Students with the restaurant management option are prepared for management positions in commercial restaurants, or can choose elective courses to provide an emphasis designed for working in institutional food service operations. Administrative and management positions are available in hotels, resorts, clubs, restaurants, catering facilities, national parks, and college and university food service operations.

Supervised on-the-job experience (internship) is required of all students enrolled in the program. Students are placed in hospitality businesses in the local and regional community, as well as national and international corporations.

Interior Design Major

The course of study in interior design leads to a first professional interior design degree. Students gain knowledge and experience in identifying, researching, and designing projects relative to the function and quality of the man's proximate environment. Courses in design fundamentals, design analysis, space planning, interior construction, building systems and equipment, and technical communication prepare students to successfully complete studio projects in residential and commercial design (e.g., institutional, educational, hospitality, corporate, retail, health care).

Students learn several approaches to the design process, but all involve: analyzing client needs, goals, and life safety requirements; design concept development; developing and presenting design recommendations; and working drawings and specifications in compliance with universal accessibility guidelines and all applicable codes.

Students participate in an internship during the summer between their third and fourth years. This internship may or may not include a stipend to support that student while living away from campus or home.

The interior design major has four years of sequenced studio work. Admission into the third-year studio is based upon demonstrated professional interest, a portfolio review completed during the spring semester of the student's sophomore year, a 3.0 cumulative grade-point average, and a minimum grade of C in all major core requirements. All students successfully completing sophomore review are required to purchase a laptop computer for upper division studio courses. Senior interior design students complete a capstone course that culminates the professional design educational experience.

The interior design program is accredited by the Foundation for Interior Design Education Research (FIDER).

Enrichment Opportunities

The department supplements classroom learning through structured field experiences to fashion and design centers. Field trips to Minneapolis, New York City, Kansas City, Chicago, and cities in Europe are scheduled at least biannually; others are scheduled as needed.

Professional enrichment is possible through departmental affiliation with the Fashion Institute of Technology, New York City, or the Philadelphia School of Textiles and Science, Philadelphia, Pennsylvania. NDSU students who attend these institutions as visiting students for a semester or a year gain valuable experience in a fashion environment. Students should prepare to do this experience during their junior and/or senior year. Additional information about these programs is furnished upon request.

Fashion Institute of Technology Affiliation

The department has an arrangement with the Fashion Institute of Technology (F.I.T.), New York City, whereby a qualified student may attend that institution for a semester or a full year as a visiting student. The credits earned at F.I.T. will transfer to NDSU and will count toward graduation requirements. Students participating in the one-year visiting student program earn an associate degree from F.I.T.

During the second year of study at NDSU, interested students should consult with their advisers to ensure full consideration of their application for the F.I.T. visiting student program. Application should be made at least one year in advance. Students who participate in this program spend their last year of study attending F.I.T.

Philadelphia School of Textiles and Science Affiliation

To provide an expanded experience for students in the textile sciences and related industries, the department has established an affiliation with the Philadelphia School of Textiles and Science. A qualified student may attend this school during the senior year as a visiting student and transfer credits to NDSU to apply toward graduation. Students should make plans through the department and their advisers at least one year in advance to ensure consideration of the application for study at the Philadelphia School of Textiles and Science.

Recommended Curriculum Apparel and Textiles Major Apparel Studies Option

	Credits	
	F	S
First Year		
ADFH 150, Design Fundamentals-Lecture . . .	3	
ADFH 171, Fashion Dynamics	3	
ADFH 172, Product Development		3
HD&E 120, Orientation to HD&E	1	
HD&E 189, Skills for Academic Success . . .	1	

	Credits	
	F	S
Engl 110, College Composition I	3	
Engl 120, College Composition II		3
Psyc 111, Introduction to Psychology		3
CSci 116, Business Use of Computers OR		
CSci 114, Microcomputer Packages	3-4	
Comm 110, Fund of Public Speaking		3
Math 104, Finite Mathematics		3
Humanities Elective		<u>3</u>
Totals	14-15	18

Second Year

ADFH 155, Apparel Construction & Fit OR		
ADFH 370, Sewn-Prod Manufact & Anal . .	3	
ADFH 271, Visual Merchandising & Promo . .		3
ADFH 281, Aesthetic Anal in Bus & Society . .		3
Comm 216, Intercultural Comm OR		
Alternative	3	
Econ 105, Elements of Economics	3	
Comm 200, Intro to Media Writing OR		
Alternative		3
Humanities Elective		3
Science and Technology, Lab		3,1
Social and Behavioral Science Elective		3
Elective	1-6	
Totals	13-18	16

Third Year

ADFH 366, Textiles	3	
ADFH 367, Textiles Laboratory	1	
ADFH 310, History of Fashion	3	
ADFH 385, Fashion Economics	3	
ADFH 465, Textile Product Analysis		3
ADFH Elective	3	
ADFH Elective		3
Minor Course	3	
Minor Course		3
HD&E 320, Professional Issues	1	
Science and Technology		<u>3</u>
Totals	16	16

Fourth Year

ADFH 410, Dress in World Cultures	3	
ADFH 481, Apparel and Textiles Capstone Experience		3
ADFH 486, Dress and Human Behavior . . .	3	
ADFH 491, Seminar	1	
ADFH 496, Field Experience	1	
ADFH Elective	3	
ADFH Elective		3
Wellness	2	
Minor Course	3	
Minor Course		3
Minor Course		<u>4</u>
Totals	16	13
Curriculum Total	122-128	

Recommended Curriculum Apparel and Textiles Major Retail Merchandising Option Interior Merchandising Focus

	Credits	
	F	S
First Year		
ADFH 150, Design Fundamentals-Lecture . . .	3	
ADFH 151, Design Fundamentals-Studio . . .	3	
ADFH 160, Interior Design Careers	1	
ADFH 161, Interior Graphics I		3
ADFH 171, Fashion Dynamics	3	
ADFH 172, Product Development		3
HD&E 120, Orientation to HD&E	1	
HD&E 189, Skills for Academic Success . . .	1	
Comm 110, Fund of Public Speaking		3
Engl 110, College Composition I	3	
Engl 120, College Composition II		3
CSci 116, Business Use of Computers OR		
CSCI 114, Microcomputer Packages	3-4	
Math 104, Finite Mathematics		<u>3</u>
Totals	15	18-19

	Credits	
Second Year	F	S
ADFH 250, Interior Design I-Lecture	3	
ADFH 251, Interior Design I-Studio	3	
ADFH 271, Visual Merchandising & Promo . .		3
ADFH 315, History of Interiors I	3	
ADFH 316, History of Interiors II		3
Acct 102, Fundamentals of Accounting	3	
Psyc 111, Intro to Psychology	3	
Comm 200, Intro to Media Writing OR Alternative		3
Econ 105, Elements of Economics	3	
Science and Technology	3	
Social and Behavioral Science	3	
Totals	15	18

Third Year	F	S
ADFH 366, Textiles	3	
ADFH 367, Textiles Lab	1	
ADFH 382, Women in Management		3
Busn 350, Foundations of Management	3	
Busn 360, Foundations of Marketing		3
Stat 330, Introductory Statistics	3	
Comm 216, Intercultural Communication OR Alternate		3
HD&E 320, Professional Issues	1	
Humanities Elective	3	
Humanities Elective		3
Busn Elective	3	
Elective	0-3	
Totals	16	13-16

Summer	F	S
ADFH 496, Field Experience		1-5

Fourth Year	F	S
ADFH 372, Global Retailing	3	
ADFH 465, Textile Product Analysis		3
ADFH 470, Retail Financial Mgt & Control . .		4
ADFH 481, Apparel & Textiles Capstone Exp.		3
ADFH 491, Seminar	1	
ADFH 496, Field Experience		1
Busn 362, Foundations of Retailing		3
Busn Elective	3	
Busn Elective		3
Science and Technology, Lab	3,1	
Wellness	2	
Elective	0-2	
Totals	14	16
Curriculum Total		125-127

**Recommended Curriculum
Apparel and Textiles Major
Retail Merchandising Option
Textile Product Merchandising Focus**

First Year	F	S
ADFH 171, Fashion Dynamics	3	
ADFH 172, Product Development		3
HD&E 120, Orientation to HD&E	1	
HD&E 189, Skills for Academic Success . .	1	
Engl 110, College Composition I	3	
Engl 120, College Composition II		3
Comm 110, Fund of Public Speaking	3	
Math 104, Finite Mathematics		3
Psyc 111, Introduction to Psychology	3	
CSci 116, Business Use of Computers OR CSci 114, Microcomputer Packages		3-4
Humanities Elective	3	
Totals	14	15-16

Summer	F	S
ADFH 196, Field Experience (optional)		1-2

Second Year	F	S
ADFH 150, Design Fundamentals-Lecture . .	3	
ADFH 271, Visual Merchandising & Promo . .		3
ADFH 281, Aesthetic Anal in Bus & Society . .		3
Engl 215, Writing for Work OR Engl 320, Practical Writing OR Comm 200, Introduction to Media Writing . .		3

	Credits	
	F	S
Acct 102, Fundamentals of Accounting	3	
Econ 105, Elements of Economics	3	
Science and Technology Elective	3	
Science and Technology, Lab		3,1
Humanities Elective	3	
Wellness	2	
Elective	2	
Totals	15	17

Summer	F	S
ADFH 496, Field Experience (optional)		3

Third Year	F	S
ADFH 310, History of Fashion	3	
ADFH 366, Textiles	3	
ADFH 367, Textiles Lab	1	
ADFH 370, Sewn-Product Mfg & Analysis . . .		3
ADFH 372, Global Retailing	3	
ADFH 382, Women in Management		3
ADFH 496, Field Experience	1	
HD&E 320, Professional Issues	1	
Busn 350, Foundations of Management	3	
Busn 360, Foundations of Marketing		3
Busn 362, Foundations of Retailing		3
Busn Elective	3	
Elective	3	
Totals	17	16

Summer	F	S
ADFH 496, Field Experience		3-5

Fourth Year	F	S
ADFH 385, Fashion Economics	3	
ADFH 410, Dress in World Cultures	3	
ADFH 465, Textile Product Analysis		3
ADFH 470, Retail Financial Mgt & Control . .		3
ADFH 481, Apparel & Textiles Capstone Exp.		3
ADFH 486, Dress and Human Behavior	3	
ADFH 491, Seminar	1	
Busn Elective	3	
Busn Elective	3	
Comm 216, Intercultural Communication OR Alternate		3
Stat 330, Introductory Statistics	3	
Totals	16	15
Curriculum Total		131-135

**Recommended Curriculum
Apparel and Textile Minor
Retail Merchandising Option
Soft Goods Emphasis**

First Year	Credits	
	F	S
ADFH 171, Fashion Dynamics	3	
ADFH 370, Sewn-Product Mfg & Analysis		3
ADFH 281, Aesthetics Anal in Bus & Society . .	3	
ADFH 366, Textiles	3	
ADFH 372, Global Retailing	3	
ADFH 385, Fashion Economics	3	
ADFH 470, Retail Financial Mgt & Control	4	
Total	22	

**Option in Retail Management (for
Business Administration Majors)**

ADFH 171, Fashion Dynamics	3
ADFH 172, Product Development	3
ADFH 372, Global Retailing	3
ADFH 470, Retailing Financial Mgt & Control	4
Busn 360, Foundations of Marketing	3
Busn 362, Foundations of Retailing	3
ADFH Elective	3
Total	22

Option in Consumer Textiles

ADFH 281, Aesthetic Anal in Bus & Society	3
ADFH 366/367, Textiles & Textiles Lab	3,1
ADFH 385, Fashion Economics	3
ADFH 465, Textile Product Analysis	3
**ADFH Electives	9
Total	22

Option in Apparel Studies

	Credits
ADFH 155, Apparel Construction and Fit OR ADFH 370, Sewn-Product Mfg & Analysis	3
ADFH 171, Fashion Dynamics	3
ADFH 281, Aesthetic Anal in Bus & Society	3
ADFH 366/367, Textiles and Textiles Lab	3,1
**ADFH Electives	6
**ADFH Electives and/or Supporting Course	3
Total	22

** with approval of minor adviser

**Recommended Curriculum
Facility Management Major**

First Year	Credits	
	F	S
Acct 102, Fundamentals of Accounting	3	
ADFH 161, Interior Graphics I		3
Comm 110, Fund of Public Speaking		3
CSci 116, Business Use of Computers OR CSci 114, Microcomputer Packages		3-4
Econ 105, Elements of Economics	3	
Engl 110, College Composition I	3	
Engl 120, College Composition II		3
HD&E 120, Orientation to HD&E	1	
HD&E 189, Skills for Academic Success	1	
Math 104, Finite Mathematics	3	
Psyc 111, Introduction to Psychology	3	
Wellness	2	
Totals	14	17-18

Second Year

ADFH 252, Interior Design II-Lecture	3
ADFH 253, Interior Design II-Studio	3
ADFH 263, Interior Technology I	3
ADFH 363, Interior Technology II	3
ADFH 366, Textiles	3
ADFH 367, Textiles Laboratory	1
ADFH 491, Seminar	1
Busn 350, Foundations of Management	3
Busn Elective	3
Engl 215, Writing for Work	3
Science and Technology, Laboratory	3,1
Social and Behavioral Science Elective	3
Totals	17

Third Year

ADFH 365, CADD for Interiors	3
ADFH 368, Quality Assurance & Maint	2
ADFH 380, Facility Operations & Analysis	3
ADFH 491, Seminar	1
Busn 340, Principles of Finance	3
Busn 347, Principles of Real Estate	3
Busn 351, Found of Org Behavior	3
CM&E 315, Specifications and Contracts	3
Elective	3
HD&E 320, Professional Issues	1
Humanities Elective	3
Science and Technology Elective	3
Totals	16

Summer Session

ADFH 496, Field Experience	6
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Fourth Year

ADFH 480, Facility Design & Mgt	3
ADFH 482, Facility Mgt Capstone Exp	3
Busn Elective	3
Elective	3
Humanities Elective	3
IME 311, Work/Sta Design & Measurement . .	3
IME 456, Program and Project Mgt	3
Stat 330, Introductory Statistics	3
Totals	12
Curriculum Total	125

Recommended Curriculum Facility Management Minor

(Some courses are offered on a rotational basis.
Please check with the department).

	Credits
ADFH 366, Textiles	3
ADFH 367, Textiles Laboratory	1
ADFH 263, Interior Technology	3
ADFH 363, Interior Technology II	3
ADFH 368, Quality Assur & Maint of Instt Environ	2
ADFH 380, Facility Operations and Analysis	3
ADFH 491, Facility Management Seminar	1
ADFH Elective	3
Total	19

Facility Management Minor – Interior Design Majors Only

ADFH 368, Quality Assur & Maint of Instt Environ	2
ADFH 380, Facility Operations and Analysis	3
ADFH 480, Facility Design and Management	3
ADFH 491, Facility Management Seminar	1
Acct 102, Fundamentals of Accounting	3
Busn 350, Found of Mgt (Prereq.: Psyc 111)	3
Total	15

Recommended Curriculum Hospitality and Tourism Management Major Lodging Management Option

	Credits
First Year	F S
Engl 110, College Composition I	3
Engl 120, College Composition II	3
ADFH 140, Intro to Hospitality Industry	3
ADFH 141, Tourism and Travel Management	3
HD&E 120, Orientation to HD&E	1
HD&E 189, Skills for Academic Success	1
Math 104, Finite Mathematics	3
Social and Behavioral Science	3
Psyc 111, Introduction to Psychology	3
Elective	3
Wellness	3
Totals	14

Second Year

CSci 116, Business Use of Computers OR CSCI 114, Microcomputer Packages	3-4
Chem 117, Chemical Concepts/Appli	3
Acct 102, Fundamentals of Accounting	3
Econ 105, Elements of Economics	3
Comm 110, Fund of Public Speaking	3
HNES 261, Food Selection/Prep Principles	2
HNES 261L, Food Selection/Lab	3
Science and Technology	3
Science and Technology Lab	3
Humanities and Fine Arts Elective	1
Elective	3
Totals	15-16

Third Year

ADFH 241, Hospitality Accounting	3
ADFH 360, Front Office Management	3
ADFH 368, Qual Assur/Maint of Inst Env	2
Busn 350, Foundations of Management	3
Busn 360, Foundations of Marketing	3
Humanities and Fine Arts Elective	3
HD&E 320, Professional Issues	1
Busn Electives	6
Science and Technology Elective	1
Elective	3
ADFH 491, Seminar	1
Totals	16

Summer Session

ADFH 496, Field Experience	3
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	Credits
Fourth Year	F S
ADFH 403, Resort and Spa Operations	3
ADFH 496, Field Experience/Study Tour	1
ADFH 467, Hospitality Law	3
ADFH 384, Beverage Operations	3
ADFH 381, Hospitality Marketing and Sales	3
ADFH 479, Hospitality Industry Mgmt Strat	3
ADFH 491, Seminar	1
ADFH 401, Convention & Meeting Planning	3
ADFH 405, Casino Operations	3
Busn Elective	6
Elective	3
Totals	16
Curriculum Total	122-123

Recommended Curriculum Hospitality and Tourism Management Restaurant Management Option

	Credits
First Year	F S
Engl 110, College Composition I	3
Engl 120, College Composition II	3
ADFH 140, Intro to Hospitality Industry	3
ADFH 141, Tourism and Travel Mgmt	3
HNES 141, Food Sanitation	1
HD&E 120, Orientation to HD&E	1
HD&E 189, Skills for Academic Success	1
Math 104, Finite Mathematics	3
Social and Behavioral Science	3
Psyc 111, Introduction to Psychology	3
Elective	3
Wellness	3
Totals	14

Second Year

CSci 116, Business Use of Computers OR CSCI 114, Microcomputer Packages	3-4
Chem 117, Chemical Concepts/Appli	3
Acct 102, Fundamentals of Accounting	3
Econ 105, Elements of Economics	3
Comm 110, Fund of Public Speaking	3
HNES 261, Food Selection/Prep Prin	3
HNES 261L Food Selection/Prep Lab	2
Science and Technology	3
Science and Technology Lab	1
Humanities and Fine Arts Elective	3
Elective	3
Totals	15-16

Third Year

ADFH 241, Hospitality Accounting	3
F&N 361, Food Production Mgmt	3
F&N 361L, Food Production Mgmt Lab	2
ADFH 400, Food, Bev, Labor Cost Control	3
Busn 350, Fundamentals of Mgmt	3
Busn 360, Fundamentals of Marketing	3
Humanities and Fine Arts Elective	3
HD&E 320, Professional Issues	1
Busn Electives	3
Science and Technology Elective	1
Elective	1
ADFH 491, Seminar	1
Totals	16

Summer Session

ADFH 496, Field Experience	3
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Fourth Year

ADFH 496, Field Experience/Study Tour	1
ADFH 467, Hospitality Law	3
ADFH 384, Beverage Operations	3
ADFH 381, Hospitality Marketing and Sales	3
ADFH 479, Hospitality Industry Mgmt Strat	3
ADFH 491, Seminar	1
ADFH 402, Professional Catering Mgmt	3
ADFH 404, Restaurant Operations Mgmt	3
Busn Elective	6
Totals	16
Curriculum Total	125-126

Recommended Curriculum Hospitality and Tourism Management Minor

ADFH 140, Introduction to Hospitality Industry	3
ADFH 141, Tourism and Travel Management	3
ADFH 241, Hospitality Accounting	3
ADFH 368, Quality Assur/Maint of Inst Env	2
ADFH 381, Hospitality Marketing and Sales	3
ADFH 384, Beverage Operations	3
ADFH 467, Hospitality Law	3
ADFH 491, Seminar	1
ADFH 496, Field Experience/Study Tour	1

Recommended Curriculum Interior Design Major

	Credits
First Year	F S
ADFH 150, Design Fundamentals Lecture	3
ADFH 151, Design Fundamentals Studio	3
ADFH 160, Interior Design Careers	1
ADFH 161, Interior Graphics I	3
Comm 110, Fund of Public Speaking	3
CSci 116, Business Use of Computers OR CSci 114, Microcomputer Packages	3
Engl 110, College Composition I	3
Engl 120, College Composition II	3
HD&E 120, Orientation to HD&E	1
HD&E 189, Skills for Academic Success	1
Math 104, Finite Mathematics	3
Elective	3
Totals	15

Second Year

ADFH 250, Interior Design I Lecture	3
ADFH 251, Interior Design I Studio	3
ADFH 252, Interior Design II Lecture	3
ADFH 253, Interior Design II Studio	3
ADFH 261, Interior Graphics II	3
ADFH 263, Interior Technology I	3
ADFH 363, Interior Technology II	3
Comm 212, Interpersonal Communication	3
Science and Technology Elective	3
Science and Technology Laboratory	1
Elective	3
Wellness	2
Totals	17

Third Year

ADFH 315, History of Interiors I	3
ADFH 316, History of Interiors II	3
ADFH 350, Interior Design III Lecture	3
ADFH 351, Interior Design III Studio	3
ADFH 352, Interior Design IV Lecture	3
ADFH 353, Interior Design IV Studio	3
ADFH 365, CADD for Interiors	3
ADFH 366, Textiles	3
ADFH 367, Textiles Lab	1
ADFH 491, Seminar	1
HD&E 320, Professional Issues	1
Science and Technology Elective Social and Behavior Science Elective	3
Totals	16

Summer Session

ADFH 496, Field Experience	6
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Fourth Year

ADFH 450, Interior Design V Lecture	3
ADFH 451, Interior Design V Studio	3
ADFH 452, Comprehensive Int Design Proj	6
ADFH 460, Professional Practice	3
ADFH 491, Seminar	1
Supporting Courses	3
Electives	6
Totals	16
Curriculum Total	130

Recommended Curriculum Interior Design Minor

	Credits
ADFH 150, Design Fundamentals – lecture	3
ADFH 151, Design Fundamentals – studio	3
ADFH 160, Interior Design Careers	1
ADFH 161, Interior Graphics I	3
ADFH 250, Interior Design I OR	
ADFH 252, Interior Design II	3
ADFH 251, Interior Design II OR	
ADFH 253, Interior Design II	3
ADFH 315, History of Interiors I	3
ADFH 316, History of Interiors II	3
Total	22

Interior Design Minor – Architecture Majors Only

ADFH 160, Interior Design Careers	1
ADFH 250, Interior Design I OR	
ADFH 252, Interior Design II	3
ADFH 251, interior Design II OR	
ADFH 253, Interior Design II	3
ADFH 261, Interior Graphics II	3
ADFH 315, History of Interiors I	3
ADFH Electives*	12
Total	25

*Choose 12 additional credits from ADFH 250/251, 252/253, 263, 315/316, 363, 365, 380, 480, and 491.

Child Development and Family Science

The mission of the Department of Child Development and Family Science (CDFS) is to provide comprehensive, integrated knowledge of families and individuals across the life span that will equip students for careers in the helping professions and to enter graduate programs. The curriculum emphasizes practical application, acknowledging individuals and families as developing and changing entities within a larger societal context.

Child Development and Family Science Major

At the undergraduate level, the department offers a curriculum leading to a Bachelor of Science degree through two options: (a) child development and (b) family science. Child development and family science majors are prepared to work in a variety of areas related to children and families. Employment opportunities include early childhood professionals, parent and family life educators, extension agents, child protection service professionals, financial counselors, nursing home activity directors, credit specialists, probation agents, and directors of child care licensing.

Course work provides students with an ecological approach to the study of human development and families with emphasis on the interactions of individuals, families, and the broader environmental context. Flexibility is provided by allowing students to select electives within the department to specialize in careers of interest.

CDFS Core: All majors are required to complete the following set of common core courses

	Credits
CDFS 135, Family Science	3
CDFS 230, Life Span Development	3
CDFS 353, Children, Families, and Public Policy	3
CDFS 485, Capstone Experience	3

A field experience/internship is required for both options. All students are given the opportunity to work in a professional placement during their undergraduate program. This requirement enables students to apply their course work to a professional position as they prepare to move into important careers with children and families.

Note: Transfer credits in child development and family science from other institutions must have grades of C or better to be accepted for the child development and family science program at NDSU.

Child Development Option: This option prepares students for careers involving direct and support services for children. Course work may be focused on preparation for educating and caring for young children, on promoting child health and protection, or on understanding and meeting the needs of older children and adolescents.

For students who are enrolled in the Valley City State University Elementary Education program taught on the NDSU campus, the Department of Child Development and Family Science also offers the opportunity to obtain an NDSU B.S. degree with a major in Child Development and Family Science, Child Development option. Students must complete 30 credits in CDFS along with the elementary education requirements.

Child development option requirements

All of the following:	Credits
CDFS Core	12
CDFS 320, Prenatal, infant and Toddler Development	3
CDFS 330, Child Development	3
CDFS 341, Parent-Child Relations	3
CDFS 424, Observation and Assessment of Children	3
CDFS 425, Children and Stress	3
CDFS 450, Adolescent Development	3
CDFS 475, Children and Family Across Cultures	3
CDFS 487, Practicum in CDFS OR	
CDFS 496, Field Experience	8
CDFS 488, Exceptional Child and Family	3
CDFS Electives	12
Total	56

Family Science Option: This option allows students to take a concentration of courses in human development, family science, or family economics in preparation for careers in direct and support services for families.

Family Science option requirements

All of the following:	Credits
CDFS Core	12
CDFS 357, Personal and Family Finance	3
CDFS 496, Field Experience	8
CDFS Electives	15

And six credits from the following family science courses:

CDFS 341, Parent-Child Relations	3
CDFS 448, Issues in Sexuality	3
CDFS 462, Family Crisis	3
CDFS 475, Children/Families Across Cultures	3
CDFS 482, Family Dynamics of Aging	3
CDFS 483, Family Wellness	3

And six credits from the following human development courses:	Credits
CDFS 320, Prenatal, Infant & Toddler Development	3
CDFS 330, Child Development	3
CDFS 477, Financial Counseling	3
CDFS 450, Adolescent Development	3
CDFS 460, Adult Development and Aging	3

And six credits from the following family economics courses:	Credits
CDFS 186, Consumer and Society	3
CDFS 468, Women in Economic Systems	3
CDFS 477, Financial Counseling	3
CDFS 478, Financial/Consumer Issues of Aging	3
Total	56

Licensure and Certification

Students completing the child development option qualify under North Dakota Department of Human Services regulations for the position of operator, director, or teacher in a preschool educational facility. In addition, students qualify under human services regulations for the positions of director and teacher in child care centers.

Recommended Curriculum Child Development Family Science

	Option	
	Child Devel.	Fam. Sci.
First Year		
CDFS 135, Family Science	3	3
CDFS 230, Life Span Development	3	3
COMM 110, Fund of Public Speaking	3	3
ENGL 110, College Composition I	3	3
ENGL 120, College Composition II	3	3
HD&E 120, Orientation to HD&E	1	1
HD&E 189, Skills for Academic Success	1	1
PSYC 111, Introduction to Psychology	3	3
CDFS Core	3	3
CDFS Electives	6	3
Social Science Elective	3	3
Wellness	2	2
Totals	31	31

Second Year		
CDFS 330, Child Development	3	
CSCI 116, Business Use of Computers OR		
CSCI 114, Microcomputer Packages	3-4	3-4
SOC 110, Introduction to Sociology	3	3
CDFS Core	3	
CDFS Electives	6	12
Humanities and Fine Arts Elective	3	3
Quantitative Reasoning	3	3
Science and Technology Elective	3	3
Science and Technology Laboratory	1	1
Electives	9	3
Totals	34-35	34-35

Third Year		
CDFS 320, Prenatal, Infant & Toddler Dev	3	
CDFS 341, Parent-Child Relations	3	
CDFS 353, Children, Family/Public Policy	3	
CDFS 357, Personal and Family Finance	3	3
CDFS 425, Children and Stress	3	
CDFS 450, Adolescent Development	3	
CDFS 475, Children/Fam Across Cultures	3	
HD&E 320, Professional Issues	1	1
CDFS Electives	9	9
Humanities and Fine Arts Electives	3	3
Science and Technology Elective	3-4	3-4
Social and Behavioral Science Elective	3	3
Electives	3	6
Totals	31-32	28-29

Fourth Year		
CDFS 424, Observ & Assess of Children	3	
CDFS 485, Capstone Experience	3	3
CDFS 487, Child Development Practicum OR		
CDFS 496, Field Experience	8	
CDFS 488, Exceptional Child/Family	3	

	Credits
	F S
CDFS 496, Field Experience	8
CDFS Elective	3 6
Social and Behavioral Science Elective	3
Elective	6 9
Totals	26 29
Curricular Totals	122-123 122-123

CDFS Minor

The child development and family science minor is especially appropriate for students majoring in the social or behavioral sciences and other students planning careers that involve work with people. The 18-credit minor consists of CDFS 135, 230, and 12 credits of CDFS electives. At least 9 credits must be upper division, and no more than 3 credits may be in field experience, practicum, or student teaching. Some CDFS courses also apply to interdisciplinary minors in women's studies and gerontology.

Graduate Program

The department offers graduate study leading to the Master of Science degree with three options: Child Development and Family Science or Marriage and Family Therapy, and Family Financial Planning. The curriculum in child development and family science option is a two-year program including core and elective course work and the completion of a master's thesis or paper. Students are prepared for careers in community, family, and government agencies, in research, and in teaching and administration.

The Marriage and Family Therapy option is designed for students interested in working in clinical settings as a family therapist. It is a three-year program, which involves intensive course work and an on-campus clinical practicum the first two years, and thesis work and an off-campus clinical practicum the third year.

The Family Financial Planning (FFP) option is a 42 credit program with a specific curriculum approved by the Certified Financial Planner (CFP) Board of Standards. This Web-based program is a collaborative effort between Iowa State University, Kansas State University, University of Nebraska, North Dakota State University, and Montana State University. Students take courses from faculty at each of these institutions. The program requires practicum, practicum and master's paper, or a master's thesis.

Family Therapy Center: The Family Therapy Center is located on the NDSU campus. The Center is an accredited training program administered through the Department of Child Development and Family Science at NDSU. Advanced clinical students are supervised by NDSU faculty members who are clinical members and approved supervisors of the American Association for Marriage and Family Therapy.

Health, Nutrition and Exercise Science

This department offers all students an opportunity to develop skills and knowledge that are vital in developing a personal, lifetime wellness concept and to serve as teachers, leaders, and administrators of health, physical education, recreation, athletics training, and dietetics. Majors are available in physical education (teaching and non-teaching), human performance and fitness, recreation management, dietetics, and athletic training. Minors offered are physical education, health education, and nutrition and food.

Athletic Training Major

The Athletic Training major is a four-year program accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP). Students have opportunities to apply classroom learning to actual situations by taking an active role in the prevention, recognition, and management of athletic related injuries in their clinical experiences. This format provides continuity through the introduction of knowledge and skills and the reinforcement of those objectives in the clinical (athletic training room) setting. There are two phases to the athletic training program: the observational phase (first year) and the curriculum phase (second, third, and fourth year). Students in the curriculum phase must receive a "B" or higher in all athletic training curriculum courses.

Observational Phase (must be completed in first year):

During the observational phase of the program the student is required to meet the following standards:

The **minimum** standards:

1. The following courses must be taken and a letter grade of "C" or better earned:
 - a. Biol 220/220L, Human Anatomy and Physiology I;
 - b. Biol 221/221L, Human Anatomy and Physiology II Lab.
2. The following courses must be taken and a letter grade of "B" or better earned:
 - a. HNES 180, Athletic Trainers Profession;
 - b. HNES 181, Practical Application of Protective Devices and Taping Equipment;
 - c. HNES 240, Emergency Response;
 - d. HPER 217, Personal and Community Health
3. An overall grade point average of 2.50 on a 4.0 scale;
4. Successful completion of 27 semester credit hours;
5. Thirty hours of observation.

Curriculum Phase:

In order for a student to move from the observational phase to the curriculum phase, they must apply to the program and meet the following list of requirements. Admission requirements include:

1. Must meet the five minimum standards listed above;
2. Submission of a letter or recommendation, essay;

3. A physical exam;
4. Complete Technical Standards Form (see Policy and Procedures Manual);
5. Criminal background check;
6. Sign compliance/consent form;
7. TB test;
8. Immunizations including Hepatitis B vaccine;
9. Purchase professional liability insurance;
10. Join the national, district, and state organizations.

Once a student has been formally accepted into the curriculum phase of the athletic training education program he/she will be exposed to both academic course work and clinical experiences. The course work is sequenced to enhance and build on the knowledge and skills that are crucial for a student to take the NATABOC certification exam. The clinical experiences, under the direct supervision of a certified athletic trainer, help the student to further develop and enhance their skills and techniques. The student will have a variety of clinical experiences in the community of Fargo-Moorhead. Some of these include NDSU athletic training room, Dakota Clinic, MeritCare, and Red River Valley Sports Medicine/HealthSouth.

The final objective of the program is set for the students' final semester in the program. The student will take the National Athletic Trainers' Association Board of Certification Exam. The successful completion of a major in athletic training and NATABOC exam provides career opportunities in high schools, colleges/universities, professional sports programs, and other athletic health care agencies such as corporate health programs, industrial programs, sports medicine clinics, and athletic training curriculum programs.

Recommended Curriculum Athletic Training

	Credits
	F S
Observational Phase – First Year	
Biol 220, Anatomy and Physiology I	3
Biol 220L, Anatomy and Physiology I Lab	1
Biol 221, Anatomy and Physiology II	3
Biol 221L, Anatomy and Physiology II Lab	1
Engl 110, College Composition I	3
Engl 120, College Composition II	3
HD&E 120, Orientation to HD&E	1
HD&E 189, Skills for Academic Success	1
HNES 110, Introduction to HNES	1
HNES 180, Athletic Training Profession	2
HNES 181, Taping/Devices/Equipment	3
HPER 217, Personal/Community Health	3
HNES 240, Emergency Response	3
Psyc 111, Intro to Psychology	3
Totals	15 16

Curriculum Phase – Second Year

Comm 110, Public Speaking	3
Chem 117, Concepts of Chemistry	3
HNES 260, Athl Training Med Terminology	1
HNES 281, Injury Recognition	3
HNES 284, Clinical Experience I	3
HNES 285, Clinical Experience II	3
HNES 286, Injury Recognition Lab	1
HNES 381, Athl Injury Assess, Upper Body	3
HNES 383, Psychosocial Aspects of the Injured Athlete	3
Math 104, Finite Mathematics	3
Phys 120, Fundamentals of Physics	3
Humanities Elective	3
Totals	17 15

	Credits	
	F	S
Curriculum Phase – Third Year	F	S
HNES 455, Sports Nutrition	3	
HD&E 320, Professional Issues	1	
HNES 365, Kinesiology & Biomechanics	3	
HNES 366, Kinesiology & Biomechanics Lab	1	
HNES 382, Athl Injury Assess, Lower Body	3	
HNES 384, Therapeutic Exercise	3	
HNES 385, Therapeutic Modalities	3	
HNES 386, Clinical Experience III	3	
HNES 387, Clinical Experience IV	3	
HNES 465, Physiology of Exercise	3	
HNES 466, Physiology Exercise Lab	1	
HNES 496, FE/Fall Camp Hours	3	
Elective	—	2
Totals	16	16

Curriculum Phase - Fourth Year		
HNES 486, Medical Aspects of Athl Injury	3	
HNES 487, Admin Athletic Training Program	3	
HNES 488, Clinical Experience V	3	
HNES 489, Spring Athl Training Prac III	3	
Psyc 350, Research Methods I	3	
Stat 330, Introductory Statistics	3	
Elective	3	
Humanities	3	
Social and Behavioral Science	—	3
Totals	15	12
Curriculum Total		122

Food and Nutrition (Dietetics)

There are two options within the dietetics major: (a) coordinated program in dietetics; and (b) didactic program in dietetics. Both programs include all didactic courses required for membership in The American Dietetic Association.

Students with a major in dietetics are employed in many settings such as hospitals, clinics, community health programs, businesses, industries, school food services, and as consultants in homes for the elderly and other service institutions. Research and development opportunities are available in industry, government, and universities; in regulation of food quality through government agencies; and within companies as communication specialists.

Note: Transfer credits in dietetics from other institutions must have grades of "C" or better to be accepted for the dietetics program at NDSU.

Coordinated Program in Dietetics (CP)

Option: This option prepares professional dietetic practitioners for work in entry-level positions in hospitals, nursing homes, outpatient clinics, businesses, and community agencies.

Acceptance into CP is competitive and enrollment is limited. Students who have completed the prerequisite courses apply for admission in February. The American Dietetic Association/Council on Education Accreditation/Approval for dietetic education accredits the CP. Graduates are eligible to take the registration exam for dietitians upon completion of the program.

Didactic Program in Dietetics (DPD)

Option: This option meets the requirements for entrance into an accredited dietetic internship and prepares graduates for internships in hospitals, as well as in health care related organizations. The American Dietetic Association/Council of Accreditation/Approval approves the

DPD, a specialized body recognized by the United States Department of Education.

Recommended Curriculum Coordinated Program in Dietetics (CP)

	Credits	
	F	S
First Year		
Anth 111, Intro to Anthropology	3	
Chem 121, General Chemistry I	3	
Chem 121L, General Chemistry I Lab	1	
Chem 122, General Chemistry II	3	
Chem 122L, General Chemistry II Lab	1	
Econ 201, Principles of Microeconomics OR Econ 202, Principles of Macroeconomics	3	
Engl 110, College Composition I	3	
Engl 120, College Composition II	3	
HD&E 120, Orientation to HD&E	1	
HD&E 189, Skills for Academic Success	1	
Math 104, Finite Mathematics OR Math 103, College Algebra	3	
Psyc 111, Introduction to Psychology	3	
HNES 141, Food Sanitation	1	
Humanities and Fine Arts Elective	—	3
Totals	16	16

Second Year

Biol 202, Introduction to Microbiology	2	
Biol 202L, Introduction to Microbiology Lab	1	
Chem 240, Survey of Organic Chemistry	3	
Comm 110, Fund of Public Speaking	3	
CSci 116, Business Use of Computers OR CSci 114, Microcomputer Packages	3-4	
HNES 250, Nutrition Science	3	
HNES 251, Nutrition, Growth & Development	3	
HNES 261, Food Selection & Preparation	3	
HNES 261L, Food Selection & Prep Lab	2	
Biol 220, Human Anatomy & Physiology I	3	
Biol 220L, Human Anat & Physiology I Lab	1	
Humanities Electives	—	5
Totals	15	17-18

Third Year

Biol 460, Foundations of Biochemistry	4	
Busn 350, Foundations of Management	3	
HNES 340, Public Health Nutrition	3	
HNES 351, Metabolic Basis of Nutrition	4	
HNES 354, Intro to Med Nutr Therapy	3	
HNES 354L, Intro to Med Nutr Therapy Lab	1	
HNES 361, Food Production Mgt	3	
HNES 361L, Food Production Mgt Lab	2	
HD&E 320, Professional Issues	1	
Stat 330, Introductory Statistics	3	
Humanities and Fine Arts Electives	—	3
Totals	17	13

Fourth Year

HNES 440, Nutrition Counseling Skills	3	
HNES 458, Adv Med Nutrition Therapy	4	
HNES 458L, Adv Med Nutrition Therapy Lab	3	
HNES 460, Foodservice Systems	3	
HNES 460L, Foodservice Systems Lab	3	
HNES 480, Dietetics Practicum	10	
HNES 481, Dietetics Capstone	—	2
Totals	16	12
Curriculum Total		122-123

Recommended Curriculum Didactic Program in Dietetics (DPD)

	Credits	
	F	S
First Year		
Anth 111, Intro to Anthropology	3	
Chem 121, General Chemistry I	3	
Chem 121L, General Chemistry I Lab	1	
Chem 122, General Chemistry II	3	
Chem 122L, General Chemistry II Lab	1	
Econ 201, Principles of Microeconomics OR Econ 202, Principles of Macroeconomics	3	

	Credits	
	F	S
Engl 110, College Composition I	3	
Engl 120, College Composition II	3	
HD&E 120, Orientation to HD&E	1	
HD&E 189, Skills for Academic Success	1	
Math 104, Finite Mathematics OR Math 103, College Algebra	3	
Psyc 111, Introduction to Psychology	3	
HNES 141, Food Sanitation	1	
Humanities and Fine Arts Elective	—	3
Totals	15	17

Second Year

Biol 202, Introduction to Microbiology	2	
Biol 202L, Introduction to Microbiology Lab	1	
Chem 240, Survey of Organic Chemistry	3	
Comm 110, Fund of Public Speaking	3	
CSci 116, Business Use of Computers OR CSci 114, Microcomputer Packages	3-4	
HNES 250, Nutrition Science	3	
HNES 251, Nutrition, Growth & Development	3	
HNES 261, Food Selection & Preparation	3	
HNES 261L, Food Selection & Prep Lab	2	
Biol 220, Human Anat & Physiology I	3	
Biol 220L, Human Anat & Physiology I Lab	1	
Humanities Electives	—	5
Totals	15	17-18

Third Year

Biol 460, Foundations of Biochemistry	4	
Busn 350, Foundations of Management	3	
HNES 340, Public Health Nutrition	3	
HNES 351, Metabolic Basis of Nutrition	4	
HNES 354, Intro to Medical Nutrition Therapy	3	
HNES 361, Food Production Management	3	
HNES 361L, Food Production Mgt Lab	2	
HD&E 320, Professional Issues	1	
Stat 330, Introductory Statistics	3	
Humanities and Fine Arts Electives	—	3
Totals	17	12

Fourth Year

HNES 440, Nutrition Counseling Skills	3	
HNES 458, Adv Medical Nutrition Therapy	4	
HNES 460, Foodservice Systems	3	
HNES 481, Dietetics Capstone	2	
HNES 491, Seminar, Dietetic Intern Applic	1	
Electives	4	12
Totals	15	14
Curriculum Total		122-123

Recommended Curriculum Food Service Management Minor

HNES 141, Food Sanitation	1
HNES 261, Food Selection & Prep Princ	3
HNES 261L, Food Selection & Prep Princ Lab	2
HNES 361, Food Production Management	3
HNES 361L, Food Production Management Lab	2
Nutr 240, Principles of Nutrition OR HNES 250, Nutrition Science	3
HNES 460, Food Systems Management	3
Curriculum Total	17

Recommended Curriculum Nutrition Minor

HNES 250, Nutrition Science	3
HNES 361, Food Production Management	3
HNES 351, Metabolic Basis of Nutrition	4
HNES 354, Intro to Medical Nutrition Therapy	3
HNES 340, Public Health Nutrition	3
HNES 440, Nutrition Counseling Skills	3
Curriculum Total	19

Human Performance and Fitness Major

The human performance and fitness (HPF) major is designed to prepare students for entry-level positions in any of four health fitness settings: commercial, community, corporate, and clinical.

Completion of the major will also act as a stepping stone to prepare the exceptional student for graduate education in exercise physiology/science, cardiac rehabilitation, physical therapy, sports nutrition, sports medicine, biomechanics, and other allied health professions.

The HPF program includes everything from the study of physical activity and the associated acute and chronic physiological adaptations and responses to it, to health-fitness business management principles found in facilities worldwide. Majors are encouraged to select a minor in business, nutrition, psychology, gerontology or any other area depending on their interests. Field experience courses during the four-year program as well as a capstone experience involving a semester-long internship required at the end of the HPF program affords the student an opportunity to select an area of specialization in the field from sites available throughout the country.

Students are encouraged to pursue appropriate professional certification from the American College of Sports Medicine, The National Strength and Conditioning Association, or The American Council on Exercise.

Recommended Curriculum Human Performance and Fitness

	Credits	
	F	S
First Year		
Biol 220, Human Anat & Physiology I	3	
Biol 220L, Human Anat & Physiology I Lab	1	
Biol 221, Human Anat & Physiology II	3	
Biol 221L, Human Anat & Physiology II Lab	1	
CSci 114, Microcomputer Packages OR	3-4	
CSci 116, Business Use of Computers		
Engl 110, College Composition I	3	
Engl 120, College Composition II	3	
HD&E 120, Orientation to HD&E	1	
HD&E 189, Skills for Academic Success	1	
HNES 110, Intro to Health, Physical Educ & Recreation	1	
HNES 170, Intro to Human Performance & Fitness	2	
HPER 217, Personal & Community Health	3	
Math 104, Finite Mathematics	3	
Social & Behavioral Science Elective	3	
Totals	15	16

Second Year

Chem 117, Chemical Concepts & Appli	3	
Comm 110, Fund of Public Speaking	3	
HNES 250, Nutrition Science	3	
HNES 271, Tech of Strength Conditioning	3	
HNES 272, Tech of Cardio Conditioning	3	
HNES 280, Sport Safety Training	3	
HNES 365, Kinesiology & Biomechanics	3	
HNES 365L, Kinesiology & Biomech Lab	1	
Humanities Electives	6	
Social & Behavioral Sciences Elective	3	
Totals	16	15

Third Year

HNES 251, Nutrition, Growth & Dev	3	
HNES 270, Consumer Issues in Food & Nutr3		
HD&E 320, Professional Issues	1	
HNES 465, Physiology of Exercise	3	
HNES 466, Physiology of Exercise Lab	1	
HNES 470, Activity Benefits & Exercise Prescription	3	
HNES 491, Seminar	1	
HNES 496, Field Experience	1	
Electives	12	
Totals	15	18

	Credits	
	F	S
Fourth Year		
HNES 467, EKG Monitoring	2	
HNES 471, Program Implementation	3	
HNES 472, Exercise Testing & Application	3	
HNES 475, Human Performance & Fitness Internship	12	
HNES 496, Field Experience	1	
Elective	6	
Totals	15	12
Curriculum Total		122

Physical Education Programs

The degree programs in physical education are four-year curricula designed to prepare students for teaching or leadership roles in schools, sports, business, community fitness programs, and related fields.

A well-prepared physical educator is knowledgeable and skilled in the natural and behavioral sciences, humanities, symbolic systems, and learning theories. The major field stresses contemporary knowledge, history, philosophy, and principles related to physical education. Course work in multicultural education and education of the developmentally disabled is included. Students are urged to choose a second major or several minors to qualify for emerging occupational opportunities.

Physical Education: Teaching Major

Students who wish to become certified grade 7-12 physical education teachers enroll for 41 general education credits and a minimum of 29 professional education credits that include student teaching (see School of Education requirements). An additional 7 credits of education and child development courses (Educ 300 and 481, CDFS 230 or Psyc 250) must be elected for K-6 certification. The teacher education program is a selective enrollment program that leads to a B.S. degree. Students must apply to the School of Education for admission.

Recommended Curriculum Physical Education: Teaching

	Credits	
	F	S
First Year		
Biol 220, Human Anat & Physiology I	3	
Biol 220L, Human Anat & Physiology I Lab	1	
Biol 221, Human Anat & Physiology II	3	
Biol 221L, Human Anat & Physiology II Lab	1	
Comm 110, Public Speaking	3	
Engl 110, College Composition, I	3	
Engl 120, College Composition II	3	
HD&E 120, Orientation to HD&E	1	
HD&E 189, Skills for Academic Success	1	
HNES 110, Intro to HNES	1	
HNES 150, Foundations of Phys Ed	2	
HNES 151, Prof Activ/Rec Activ/Sports	3	
HNES 155, Prof Prep in Rec & Ad	3	
HNES 217, Personal/Community Health	3	
Psyc 111, Intro to Psychology	3	
Totals	15	16

Second Year

CSci 116, Business Use of Computers OR CSci 114, Microcomputer Packages	3-4	
HNES 152, Prof Prep in Team Sports	3	
HNES 153, Prof Prep in Dance	3	
HPER 154, Prof Prep in Elem Sch Activity	3	
HNES 155, Prof Prep in Indiv & Dual Sport	3	
HNES 252, Assessment in Physical Educ	3	
HNES 253, Motor Learning & Performance	3	

	Credits	
	F	S
HNES 254, Movement Analysis	3	
HNES 280, Sport Safety Training	3	
Soc 110, Introduction to Sociology	3	
Quantitative Reasoning Elective	3	
Totals	15	18-19

Third Year

Educ 321, Intro to Teaching	3	
Educ 322, Educational Psychology	3	
Educ 381, Early Experience	1	
Educ 451, Inst Plan, Methods, Assessment	3	
Educ 481, Classroom Practice I	3	
HNES 350, Fitness Edu/Act/Mat	3	
HNES 352, Phy Ed Activities & Materials	3	
HNES 367, Prin of Conditioning	3	
HD&E 320, Professional Issues	1	
Humanities/Electives/Minor	3	4
Totals	16	14

Fourth Year

Educ 389, Native Americans & Multicult.	3	
Educ 485, Student Teaching Seminar	1	
Educ 486, Classroom Mgt of Diverse Learn	3	
Educ 487, Student Teaching	12	
HNES 430, Psycho-Social of Phys Act	3	
HNES 461, Prog Admin/Curr Design	3	
Minor/Electives	5	
Totals	14	14
Curriculum Total		122-123

Recommended Curriculum Physical Education Minor

	Credits
HNES 280, Sports Safety Training	3
HNES 367, Principles of Conditioning	3
HNES 460, Program Admin & Curriculum Design	3

Select one of the following courses:

HNES 151, Prof Prep in Rec & Adv Sports	3
HNES 152, Prof Preparation in Team Sports	3
HNES 153, Prof Preparation in Dance	3
HPER 154, Prof Prep in Elem School Activ	3
HNES 155, Prof Prep in Indiv & Dual Sports	3

Select one of the following courses:

HNES 253, Motor Learning & Performance	3
HNES 254, Movement Analysis	3
HNES 252, Assessment in Physical Education	3

Select one of the following courses:

HNES 350, Fitness Educ Activities & Materials	3
HNES 352, Phys Educ Activities & Materials	3

Select one of the following courses:

Educ 481, Classroom Pract/Meth of Teaching I	2
Educ 482, Classroom Pract/Meth of Teaching II	2
Curriculum Total	20

Recommended Curriculum Health Education Minor

CDFS 135, Family Science	3
HPER 210, First Aid/CPR OR HNES 280, Sport Safety Training	2-3
HPER 217, Personal & Community Health	3
HNES 345, Meth/Mat Comp Sch Health Educ	3
HNES 445, Org/Admin Coord Sch Health Prog	3
Nutr 240, Principles of Nutrition OR HNES 250, Nutrition Science	3
Psyc 212, Psych Aspects/Drug Use & Abuse	3
Curriculum Total	20-21

Physical Education: Non-Teaching Major

Students who wish to major in physical education and not become teachers may select the liberal arts program of the College of Human Development and Education. Concurrently with the major, the student will take a minimum

of 58 general education credits including a foreign language (B.A. degree) or published minor (B.S. degree).

Recommended Curriculum Physical Education: Non-Teaching

	Credits	
	F	S
First Year		
Biol 220, Human Anat & Physiology	3	
Biol 220L, Human Anat & Physiology I Lab . . .	1	
Biol 221, Human Anat & Physiology II	3	
Biol 221L, Human Anat & Physiology II Lab . . .	1	
Comm 110, Public Speaking	3	
Engl 110, College Composition I	3	
Engl 120, College Composition II	3	
HD&E 120, Orientation to HD&E	1	
HD&E 189, Skills for Academic Success	1	
HPER 110, Intro to HNES	1	
HNES 150, Foundations of Phys Ed	2	
HNES 151, Prof Prep in Rec & Ad	3	
HPER 217, Personal/Community Health	3	
Psyc 111, Intro to Psychology	3	
Totals	15	16
Second Year		
CSci 116, Business Use of Computers OR CSci 114, Microcomputer Packages	3-4	
HNES 152, Prof Prep/Team Sports	3	
HNES 153, Prof Prep/Dance	3	
HPER 154, Prof Prep/Elem School Act	3	
HNES 155, Prof Prep in Indiv & Dual Sport	3	
HNES 252, Assess in Physical Education	3	
HNES 253, Motor Learning & Performance	3	
HNES 254, Movement Analysis	3	
HNES 280, Sport Safety Training	3	
Soc 110, Introduction to Sociology	3	
Quantitative Reasoning Elective	3	
Totals	15	18-19
Third Year		
HNES 350, Fitness Edu/Act/Mat	3	
HNES 352, Phys Ed/Act/Mat	3	
HNES 367, Prin of Conditioning	3	
HD&E 320, Professional Issues	1	
Electives	10	10
Totals	16	14
Fourth Year		
HNES 430, Psycho-Social/Phys Act	3	
HNES 461, Prog Admin/Curr Design	3	
Electives	8	14
Totals	14	14
Curriculum Total	122-123	

Recreation Management Major

The major in recreation management is a four-year curriculum designed to prepare students for professional administration and leadership positions in parks and recreation. Students learn and develop skills for employment in federal, state, municipal, hospital, and private recreation settings.

The major area course work in the recreation management curriculum includes 47 credits, 12 of which are taken during the senior year as an internship at an approved recreation agency. Students are advised to pursue supporting minors (e.g., business administration, sociology, gerontology, environmental studies, language) to enhance their career opportunities. Students may also seek appropriate professional certifications as a C.L.P. (Certified Leisure Professional), and/or R.S.S. (Recreational Sports Specialist) upon graduation.

Recommended Curriculum Recreation Management

	Credits	
	F	S
First Year		
Comm 110, Fund of Public Speaking	3	
CSci 114, Microcomputer Packages OR CSci 116, Business Use of Computers	3-4	
Engl 110, 120, College Composition I, II	3	3
HD&E 120, Orientation to HD&E	1	
HD&E 189, Skills for Academic Success	1	
HPER 100, Concepts of Fitness/Activities	2	
HNES 110, Intro to HPER	1	
HNES 151, Prof Activ/Rec Activ/Sports	3	
HNES 153, Prof Prep/Dance	3	
HNES 155, Prof Prep/Ind/Dual Sport	3	
HNES 196, Field Experience	1	
HPER 200, Intro to Parks and Recreation	2	
Totals	14	15-16
Second Year		
Art 200 Series, Studio Art Elective	3	
HNES 196, Field Experience	1	
HNES 225, Camp Mgt/Outdoor Rec	2	
HNES 280, Sport Safety Training	3	
Humanities	3	
Science and Technology (one with lab)	4	6
Social and Behav/Cultural Diversity	3	3
Electives	3	2
Totals	15	15
Third Year		
HNES 326, Recreation Prog	3	
Thea 160, Intro to Acting OR Thea 161, Acting I	3	
HD&E 320, Professional Issues	1	
Humanities	3	
Quantitative Reasoning	3	
Social/Behavioral Science	3	
Electives	6	5
Totals	12	15
Summer Session		
HNES 429, Recreation Internship	12	
Fourth Year		
HNES 426, Parks and Rec Admin	3	
HNES 427, Leisure and Society	3	
HNES 491, Seminar	1	
Soc 440, Sociology of Aging	3	
Electives	6	8
Totals	12	12
Curriculum Total	122	122

Graduate Program

The Master of Education degree in education with a physical education option is offered cooperatively by the Department of Health, Nutrition and Exercise Sciences and the School of Education. Two options are offered: (a) Physical Education-Pedagogy places emphasis on development of the master teacher of physical education by improving knowledge and understanding of teaching and the practice of physical education; (b) Physical Education-Athletic Administration prepares students for careers in athletic administration by providing knowledge and concepts of administrative principles and practices. Contact the School of Education for entrance requirements.

School of Education

Students contemplating careers in education may be encouraged to learn there is a shortage of teachers in certain academic and geographical areas. This trend, together with the knowledge that preparation in teaching may also lead to successful careers in business, industry, and the public sector, may make education an excellent choice for versatile careers.

Programs in education at North Dakota State University are administered by the School of Education. The School of Education is accredited at the undergraduate and graduate levels by the National Council for Accreditation of Teacher Education (NCATE). NCATE accreditation assures that graduates of the program may be certified/licensed as teachers in other states, and also indicates that the programs offered through the School of Education are of high quality.

Through the School of Education, students are prepared to be teachers, counselors, and school administrators capable of working effectively with diverse populations. Through course work and field experiences, students come to an appreciation of and commitment to cultural diversity and to the elimination of inequitable instructional and institutional practices.

Note: Transfer credits in education from other institutions must have grades of C or better to be accepted for the education program at NDSU.

Admission to the School of Education

Application forms and instructions for admission to the School of Education are available at the Teacher Education Office, 155 E. Morrow Lebedeff Hall. Students should check the School of Education Web site or contact the School of Education office for updates in procedures and requirements.

Students should make application for admission to the School of Education during or immediately following the introductory professional education course (Educ 321). Late application may delay completion of program and graduation requirements. All applications to the school will remain valid for five years from the date of approval or until completion of the baccalaureate degree, whichever comes first.

The Council for Teacher Education reviews and acts upon completed applications. The Council is the body within the School of Education with jurisdiction over such matters as admission, retention, student teaching, and certification/licensure. The Council informs the students of its action. For questions about admission policies, contact the teacher education office.

Admission of Undergraduate Students

Undergraduate students may gain admission to the School of Education by meeting the following requirements:

1. Provide evidence of maintaining a minimum grade-point average of 2.75 in the student's total academic program. Transfer students shall complete a minimum of one semester's work and obtain a 2.75 grade-point average at North Dakota State University before their applications are processed.

2. Complete the following:
 - Provide evidence of achieving passing scores on the Praxis I test of basic skills. (The student is responsible for registering for the test and paying the appropriate fee.)
3. Complete a speech and hearing screening. If results are not satisfactory, the student must provide evidence that the recommendations resulting from the examination will have been complied with by the beginning of the student teaching experience.
4. Provide evidence of competence in English through any one of the following:
 - minimum ACT English test standard score of 20.
 - minimum PSAT verbal test score of 45.
 - minimum SAT verbal test score of 450.
 - minimum grade-point average of 2.50 in English 110 and 120 or equivalent.
 - minimum of a B grade in English 358 or equivalent writing course.
5. Achieve a grade of B or better in Communication 110 or equivalent.

Students should submit a completed application for admission as soon as all of the preceding requirements have been satisfied. The application must be accompanied by up-to-date transcripts of all college-level work.

Admission of Post-Baccalaureate Students

Students with college degrees seeking teacher certification/licensure should contact the School of Education certification officer for more information.

North Dakota State University students who continue in school after graduation or who resume their education within one year following graduation will be considered on the same basis as undergraduates.

Students whose undergraduate academic average was below 2.50 shall increase their overall undergraduate grade-point average to 2.50 or achieve and maintain an average of 3.00 on post-baccalaureate course work while meeting the following conditions:

- a. Obtain 24 approved credits in two contiguous semesters, or equivalent.
- b. Take each course for a grade other than pass/fail.
- c. Obtain approval of all courses from the teacher education program.

Post-baccalaureate students must submit an application showing evidence of meeting the requirements listed under "Admission of Undergraduate Students."

Note: These policies refer to admission to teacher education for purposes of certification/licensure and are not recommendations for admission to Graduate School.

Student Teaching Policies

Prior to student teaching, all student teachers must meet all School of Education requirements including completion and submission of the verification of requirements form (available from the teacher education office). Because student teaching is a full-time experience, students shall not participate in extracurricular activities on campus or participate in employment that detracts from student teaching and shall not be registered for course work other than student teaching (Educ 487) and Educ 485 and 486.

Program Exit Requirements

1. Students must complete a portfolio developed throughout the professional education courses based on the Intrastate New Teachers Assessment and Support Consortium (INTASC) standards.
2. Students must earn a minimum GPA of 2.75 in each of the following programs:
 - total academic programs.
 - teaching specialties.
 - professional education courses consisting of a minimum of 27 credits.
3. Students may complete an application for state certification/licensure and pay the appropriate fee to the state upon completion of the program. Application forms for some states are available from the certification officer.

Special Notice

New certification requirements and accreditation standards may result in revised course work requirements. Students should contact the School of Education to keep abreast of possible developments in curriculum areas.

NDSU Student Education Association

Students in teacher education are encouraged to join the NDSU Student North Dakota Education Association, which is affiliated with the Student North Dakota Education Association and the National Education Association Student Program. Members of this organization receive a number of benefits including workshops, publications, and liability insurance, and have the opportunities to be involved with many of the committees that govern the teacher education program at NDSU.

Persons interested in membership details should contact the School of Education or the SNDEA Student Program adviser.

Students are also encouraged to join the professional organization(s) relevant to their teaching specialties.

Graduation Requirements

Graduation requirements for all students desiring teacher certification/licensure, secondary or K-12, include four basic parts: general education requirements, college requirements, professional education requirements, and teaching specialty requirements.

1. General Education

(Minimum 36-37 Credits)	Credits
Skills for Academic Success	1
Communication	9
Quantitative Reasoning	3
Science and Technology	10
Humanities and Fine Arts	6
Social and Behavioral Sciences	6
Wellness	2

2. College Requirement

HD&E 120, Orientation to Human Development and Education (1 credit).

3. Professional Education

The required common professional education sequence includes the following:

	Credits
Educ 321, Intro to Teaching	3
Educ 322, Educational Psychology	3
Educ 381, Early Experience	1
Educ 389, Nat Am/Multicultural Instr Prac	3
Educ 451, Instr Planning, Meth, and Assessment	3
Educ 481, Classroom Prac/Methods of Teaching	2-3
Educ 485, Student Teaching Seminar	1
Educ 486, Classroom Mgt of Diverse Learners	3
Educ 487, Student Teaching	6-12

Additional credits are required for programs in agricultural education, English education, family and consumer sciences education, music education, and physical education.

4. Teaching Specialty

See the Teacher Education Office for requirements for the following:

Agricultural Education	History
Biological Sciences	Mathematics
Chemistry	Music
Comprehensive Science	Physical Education
English	Physics
Family and Consumer Sciences	Social Sciences
Education	Sociology
French	Spanish
Geology	Speech Communication

Teaching minors are generally available in each of the teaching major areas. See respective department for details.

Human and Community Education

State approved programs for the preparation of vocational education teachers are grouped under human and community education (H&CE). Curricula in two areas are offered: agricultural education and family and consumer sciences education.

Agricultural Education

North Dakota State University is designated by the State Board for Vocational Education as the recognized institution for preparing teachers of agricultural education. Programs are offered to prepare students for teaching agricultural education on the secondary, post-secondary, and adult levels. Graduates also secure employment in other agricultural occupations such as Cooperative Extension, government services, and agribusiness.

Upon completion of the program, students are eligible for certification to teach agricultural

education in North Dakota and may be qualified for certification/licensure in a number of other states.

Family and Consumer Sciences Education

The family and consumer sciences education program at NDSU has been approved by the State Board for Vocational Education for the preparation of family and consumer sciences teachers. Thus, graduates are qualified to teach family and consumer sciences classes in vocational or non-vocational school programs at junior and senior high school levels.

In addition to fulfilling teacher certification/licensure requirements for North Dakota, graduates may be qualified for certification/licensure in a number of other states.

Graduates are also qualified to teach in adult education programs and to serve as extension home economists. Alternate career opportunities include positions with utility companies, health and human service agencies, and retail establishments.

Middle School Endorsement for Grades 5-8

Middle school endorsement is available on a voluntary basis for students who will receive teacher certification for grades K through 12. For students who will be certified for grades 7 through 12, but wish to qualify for teaching grades 5 and 6 in their subject fields, middle school endorsement will be mandatory. For more information contact the School of Education.

K-12 Certification/Licensure for Physical Education and Music Majors

Certification/licensure for kindergarten through 12th grade programs (K-12) is available for students majoring in physical education or music. The student must enroll in Educ 300, Orientation to Elementary Education, and either CDFS 230 or Psyc 250 and Elementary Teaching Methods, and student teach at both the elementary and secondary levels, as well as meet the specific requirements for each major department.

Elementary and Special Education

A major in elementary education is available on the NDSU campus through a cooperative arrangement with Valley City State University, the degree-granting institution for this program.

Recommended Curriculum Extension Education Minor

The extension education minor provides educational background and presentation skills for individuals who seek careers associated with the Cooperative Extension Service. This minor is offered through the agricultural education and the family and consumer sciences education programs.

	Credits
H&CE 341, Leadership and Presentation Techniques3
H&CE 345, Extension Education2
H&CE 444, Planning the Community Program in Agricultural Education OR H&CE 468, Family Life and Adult Education Programs3
H&CE 445, Technology Transfer in Agriculture3
H&CE 481, Methods of Teaching Agriculture OR H&CE 482, Methods of Teaching Family and Consumer Sciences OR Educ 451, Instructional Planning Methods & Assessments3
H&CE 496, FE/Extension Internship	6-9
Curriculum Total	20-23

Title II Institutional Report

To comply with the requirements of Section 207 of Title II of the Higher Education Act, North Dakota State University has provided the following information to the North Dakota Education Standards and Practices Board.

Section I. Pass rates

North Dakota is not a testing state and therefore no pass rates are prepared, calculated, verified, or reported.

Section II. Program information

A. Number of students in the regular teacher preparation program:

1. Total number of students enrolled during 2000-2001: *Full-time = 275; Part-time = 152*

B. Information about supervised student teaching:

2. Number of students in programs of supervised student teaching during academic year 2000-2001: *66*
3. Number of supervising faculty who were:
 - Appointed full-time in professional education: *7*
 - Appointed part-time in professional education and full-time in the institution: *4*
 - Appointed part-time in professional education, not otherwise employed by the institution: *0*
 - Total number of supervising faculty for the teacher preparation program during 2000-2001: *11*
4. The student/faculty ratio was (divide the total given in B2. by the number given in B3.): *6.0*

5. The average number of hours per week required of student participation in supervised student teaching in these programs was: *35* hours. The total number of weeks of supervised student teaching required is *10*. The total number of hours required is *350* hours.

C. Information about state approval or accreditation of teacher preparation programs:

6. Is your teacher preparation program currently approved or accredited by the state: *Yes*
7. Is your teacher preparation program currently under a designation as "low-performing" by the state (as per section 208(a) of the HEA of 1998)? *No*

Section III. Contextual information

*The School of Education at North Dakota State University is accredited by the National Council for Accreditation of Teacher Education (NCATE), 2010 Massachusetts Ave NW, Suite 5000, Washington, DC 20036; phone (202)466-7496. This accreditation covers the institution's initial and advanced teacher education, advanced educational leadership, and advanced school counseling programs.

The school counseling program is accredited by the Council for the Accreditation of Counseling and Related Educational Programs (CACREP), 5999 Stevenson Avenue, Alexandria, VA 22304; phone (703)823-9800.

The initial and advanced teacher education, advanced educational leadership, and advanced school counseling programs at North Dakota State University are approved/accredited by the North Dakota Education Standards and Practices Board (ESPB), 600 E. Boulevard Ave, Dept 202, Bismarck, ND 58505-0080; phone (701) 328-2264.

The teacher education, educational leadership, and school counseling programs at North Dakota State University utilize the "Reasoned Action Model" as the organizing conceptual framework. A copy can be reviewed in room 210, Family Life Center, NDSU campus, phone (701)231-7921.

Beginning with the Fall 2000 semester, all initial teacher education candidates are required to prepare and submit portfolios as part of the assessment process.

For more information, contact Chair, NDSU School of Education, PO Box 5057, Fargo, ND 58105-5057. Telephone (701)231-7921.