

College of Human Development and Education

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Virginia L. Clark, Dean

The College of Human Development and Education was established July, 1992. There are five units in the college: Apparel, Textiles, and Interior Design; Child Development and Family Science; Education; Food and Nutrition; and Health, Physical Education, and Recreation. 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. The food science program (offered with the College of Agriculture) is approved by the Institute of Food Technologists.

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, Food and Nutrition, Physical Education, and Teacher Education. A Master of Education degree may be earned through Health, Physical Education, and Recreation 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 to fulfill the major requirements in the college may not be taken pass/fail. Other courses, however, not specified by name or number may be taken pass/fail. 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 100 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 or CSci: programming course or Stat 330	
Science and Technology	10
A laboratory course is included in this requirement.	
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
Food Science
Hotel, Motel, Restaurant 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
 German
 History

Mathematics
Music (K-12)
Physical Education (K-12)
Physics
Social Science
Sociology
Soils (Earth Science)
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; 24-26 credits in health education; 19 credits in hotel, motel and restaurant management; 16 credits for an individual and family wellness minor; 21 credits in retail merchandising; 22 credits in consumer textiles; 17 credits in facility management; 22-25 credits in interior design, 22 credits for a nutrition minor, and 29 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)
Fit for Life Club
Fashion, Apparel, and Business Organization
 (FABO)
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
F&N 452, Nutrition, Health and Aging (NDSU)	3
Soc 442, Current Issues in 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
HPER 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**

Univ 350, Perspectives in Women's Studies 3
AND

Three of the following courses:

ATID 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, Textiles, and Interior Design

Students graduating with majors in apparel and textiles or interior design have a general education and specialized career preparation. Interdisciplinary curricula in the Department of Apparel, Textiles, and Interior Design may build upon economics and business, art, behavioral sciences, or natural sciences. The department offers three majors: apparel and textiles, facility 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 consisting of a minimum of 22 credits are also available. 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 credits 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, apparel production, 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 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 and a field experience to reinforce classroom instruction is 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 work place 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 prospective 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.

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 near environment. Courses in aesthetic awareness, visual communication, and technical skills 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 the following steps: problem identification, gathering and analyzing facts, specifying needs, concept development, organizing and deciding on a solution, and implementation. Students participate in an

internship during the summer between their third and fourth year. 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. 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, 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		
ATID 155, Apparel Construction and Fit OR		
ATID 270, Eval Ready-to-Wear	3	
ATID 181, Aesthetic Analysis	3	
Comm 110, Fund of Public Speaking		3
CSci 146, Busn Use of Computers OR		
CSci 147, Microcomputer Packages	3	
Engl 110, 120, College Composition I, II		3
HD&E 120, Orientation to HD&E	1	
HD&E 189, Skills for Academic Success	1	
Math 104, Finite Mathematics		3
Soc 110, Intro to Sociology		3
Humanities and Fine Arts		3
Totals	14	15

Second Year		
ATID 150, Design Fundamentals—Lecture	3	
ATID 265, 266, Intro to Textiles, Lab	3,1	
Econ 201, Prin of Microeconomics	3	
Engl 215, Writing for Work OR		
Engl 320, Practical Writing OR		
Comm 200, Intro to Media Writing		3
ATID Electives		3
Social and Behavioral Science		3
Science and Technology, Lab		3,1
Electives		3
Totals	16	16

Third Year		
ATID 310, Evolution of Fashion	3	
ATID 371, Visual Merchandising	3	
ATID 385, Fashion Economics	3	
ATID 465, Textile Product Analysis		3
Comm 308, Busn and Prof Speaking	3	
HD&E 320, Professional Issues		1
ATID Electives		3
Humanities and Fine Arts		3
Science and Technology		3
Minor Courses	3,3	
Totals	18	16

Fourth Year		
ATID 410, Dress in World Cultures	3	
ATID 481, Apparel and Textiles Capstone	3	
ATID 486, Dress and Human Behavior	3	
ATID 491, Seminar		1
ATID 496, Field Trip	1	
ATID Elective, Elective	3	3
Minor Courses	3,3	
Wellness		2
Totals	16	16
Curriculum Total		127

Retail Merchandising Option Interior Merchandising

	Credits	
	F	S
First Year		
ATID 150, 151, Design		
Fundamen-Lec, Studio	3,3	
ATID 160, Interior Design Careers	1	
ATID 161, Interior Graphics I		3
ATID 170, Intro to Retail Merchandising	3	
Comm 110, Fund of Public Speaking		3
CSci 146, Busn Use of Computers OR		
CSci 147, Microcomputer Packages	3	
Engl 110, 120, College Composition I, II		3
HD&E 120, Orientation to HD&E	1	
HD&E 189, Skills for Academic Success	1	
Math 104, Finite Mathematics		3
Totals	15	15

	Credits	
	F	S
Second Year		
Acct 102, Fundamentals of Accounting	3	
ATID 250, 251, Int Design I-Lec, Studio	3,3	
ATID 265, 266, Intro to Textiles, Lab	3,1	
ATID 315, 316, History of Interiors I, II	3	3
Econ 201, Prin of Microeconomics OR		
Econ 202, Prin of Macroeconomics		3
Engl 215, Writing for Work OR		
Engl 320, Practical Writing OR		
Comm 210, Intro to Media Writing		3
Soc 110, Intro to Sociology		3
Science and Technology		3
Totals	16	15

Third Year		
ATID 371, Visual Merchandising		3
ATID 465, Textile Product Analysis		3
ATID 470, Retail Financial Management		4
Busn 350, 360, Prin of Mgt, Mktg	3	3
Comm 308, Busn and Prof Speaking	3	
HD&E 320, Professional Issues		1
Psyc 111, Intro to Psychology OR		
Soc 110, Intro to Sociology		3
Stat 330, Introductory Statistics		3
Business Elective		3
Elective		3
Totals	15	17

Summer Session		
ATID 496, Field Experience		1-5

Fourth Year		
ATID 372, Global Retailing	3	
ATID 382, Women in Management		3
ATID 481, Apparel and Textiles Capstone		3
ATID 491, Seminar	1	1
ATID 496, Field Trip	1	
Business Electives	3	3
Humanities and Fine Arts	3	3
Science and Technology, Lab		3,1
Wellness		2
Totals	13	17

Curriculum Total124-128

Retail Merchandising Option Textile Product Merchandising

	Credits	
	F	S
First Year		
ATID 170, Intro to Retail Merchandising	3	
ATID 181, Aesthetic Analysis in Busn	3	
Comm 110, Fund of Public Speaking		3
CSci 146, Business Use of Computers OR		
CSci 147, Microcomputer Packages		3
Engl 110, 120, College Composition I, 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, Intro to Psychology OR		
Soc 110, Intro to Sociology		3
Humanities and Fine Arts		3
Totals	14	15

Summer Session		
ATID 196, Field Experience		1-2

Second Year		
Acct 102, Fundamentals of Accounting	3	
ATID 150, Design Fundamentals—Lecture	3	
ATID 265, 266, Intro to Textiles, Lab	3,1	
ATID 270, Eval of Ready-to-Wear		3
Econ 201, Prin of Microeconomics OR		
Econ 202, Prin of Macroeconomics		3
Engl 215, Writing for Work OR		
Engl 320, Practical Writing OR		
Comm 200, Intro to Media Writing		3
Science and Technology, Lab		3,1
Wellness		2
Elective		3
Totals	16	15

	Credits	
Third Year	F	S
ATID 310, Evolution of Fashion	3	
ATID 371, Visual Merchandising	3	
ATID 372, Global Retailing	3	
ATID 465, Textile Product Analysis	3	
ATID 491, Seminar	1	
Busn 350, 360, Principles of Mgt, Mktg	3,3	
Comm 308, Busn and Prof Speaking	3	
HD&E 320, Professional Issues		1
Stat 330, Introductory Statistics	3	
Business Elective	3	
Totals	15	14

Summer Session

ATID 496, Field Experience	1-5
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Fourth Year

ATID 382, Women in Management	3
ATID 385, Fashion Economics	3
ATID 410, Dress in World Cultures	3
ATID 470, Retail Financial Mgt	4
ATID 481, Apparel and Textiles Capstone	3
ATID 486, Dress and Human Behavior	3
ATID 491, Seminar	1
ATID 496, Field Trip	1
Business Electives	3
Humanities and Fine Arts	3
Totals	14

Curriculum Total121-126

Facility Management Major

	Credits	
First Year	F	S
Acct 102, Fundamentals of Accounting	3	
ATID 161, Interior Graphics I	3	
Comm 110, Fund of Public Speaking	3	
CSci 146, Busn Use of Computers OR CSci 147, Microcomputer Packages	3	
Econ 201, Prin of Microeconomics	3	
Engl 110, 120, College Composition I, 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, Intro to Psychology	3	
Humanities and Fine Arts	3	
Wellness	2-3	
Totals	17	17-18

Second Year

ATID 252, 253, Int Design II-Lec, Studio	3,3
ATID 263, 363, Interior Technology I, II	3
ATID 265, 266, Intro to Textiles, Lab	3,1
ATID 491, Seminar	1
Biol 202, 202L, Intro to Microbiol, Lab	2,1
Busn 350, Principles of Management	3
Busn 430, Business Ethics	3
Comm 212, Interpersonal Communication	3
Engl 215, Writing for Work	3
Business Elective	3
Totals	17

Third Year

ATID 365, CADD for Interiors	3
ATID 368, Quality Assur and Mtnce	3
ATID 380, Facility Operations and Anal	3
ATID 491, Seminar: Marketing Yourself	1
Busn 347, Principles of Real Estate	3
CM&E 315, Specifications and Contracts	3
Comm 483, Organizational Comm I	3
HD&E 320, Professional Issues	1
Science and Technology, Lab	3,1
Electives	3,3
Totals	14

Summer Session

ATID 496, Field Experience	6
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	Credits	
Fourth Year	F	S
ATID 480, Facility Design and Mgt	3	
IME 411, Work/Station Design and Meas	3	
IME 456, Program and Project Mgt		3
Stat 330, Introductory Statistics	3	
Business Elective	3	
Humanities and Fine Arts		3
Electives	3	3,3,3
Totals	15	15

Curriculum Total 135-136

Interior Design Major

	Credits	
First Year	F	S
ATID 150, 151, Design Fundamentals I, Studio	3,3	
ATID 160, Interior Design Careers	1	
ATID 161, Interior Graphics I		3
Comm 110, Fund of Public Speaking	3	
CSci 146, Bus Use of Computers OR CSci 147, Microcomputer Packages	3	
Engl 110, 120, College Composition I, II	3	
HD&E 120, Orientation to HD&E	1	
HD&E 189, Skills for Academic Success	1	
Math 104, Finite Mathematics	3	
Social/Behavioral Sciences	3	
Totals	15	15

Second Year

ATID 250, 251, Design Process I, Studio	3,3
ATID 252, 253, Interior Design II, Studio	3,3
ATID 261, Interior Graphics II	3
ATID 263, 363, Interior Technology I, II	3
ATID 265, 266, Intro to Textiles, Lab	3,1
Comm 212, Interpersonal Comm	3
Science and Technology, Lab	3,1
Totals	16

Third Year

ATID 315, 316, Hist of Interiors I, II	3
ATID 350, 352, Inter Design-Lec III, IV	3
ATID 351, 353, Inter Design-Stud III, IV	3
ATID 365, CADD for Interiors	3
ATID 491, Seminar	1
HD&E 320, Professional Issues	1
Science, Social and Behavioral Science	3
Wellness	2
Elective	3
Totals	17

Summer Session

ATID 496, Field Experience	6
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Fourth Year

ATID 450, 451, Inter Design V-Lec, Studio	3,3
ATID 452, Design Project	6
ATID 460, Professional Practice	3
ATID 491, Seminar: Marketing Yourself	1
Humanities and Fine Arts	3
Electives	3
Totals	16

Curriculum Total130

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.

Child development option requirements

All of the following:	Credits
CDFS Core	12
CDFS 330, Child Development	3
CDFS 341, Parent-Child Relations	3
CDFS 425, Children and Stress	3
CDFS 450, Middle Childhood/Adolescent Dev	3
CDFS 475, Children and Fam Across Cultures	3
CDFS 487, Practicum in CDFS OR CDFS 496, Field Experience	8
CDFS 488, Exceptional Child and Family	3
CDFS Electives	16
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	18

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:

CDFS 330, Child Development	3
CDFS 450, Middle Childhood/Adolescent Dev	3
CDFS 460, Adult Development and Aging	3

And three credits from the following family economics courses:

CDFS 247, Creative Family Management	3
CDFS 377, Families/Financial Difficulties	3
CDFS 478, Fin/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.

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.

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

	Option	Child	Fam.
	Devel.	Sci.	
Second Year			
CDFS 330, Child Development	3		
CSci 146, Busn Use of Computers or CSci 147, Microcomputer Pkgs	3	3	
Soc 110, Intro to Sociology	3	3	
CDFS Core	3		
CDFS Electives	6	12	
Humanities and Fine Arts	3	3	
Quantitative Reasoning	3	3	
Science and Tech, Lab	3,1	3,1	
Electives	9	3	
Totals	34	34	

Third Year

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

Fourth Year

CDFS 485, Capstone Experience	3	3	
CDFS 487, Child Devel Practicum OR CDFS 496, Field Experience	8		
CDFS 488, Exceptional Child/Family	3		
CDFS 496, Field Experience	8	8	
CDFS Electives	3	6	
Social/Behavioral Sci	3	3	
Electives	9	9	
Totals	26	29	
Curriculum Totals	122	122	

Graduate Program

The department offers graduate study leading to the Master of Science degree with two options: child development and family science or marriage and family therapy.

The 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.

Food and Nutrition

Public interest is increasing in both the fundamental and applied aspects of food and nutrition. Professionals must be able to integrate and apply principles of the biological, chemical, physical, and social sciences in the solution of human nutrition and food problems. Teaching and research are focused on the application of scientific knowledge to the maintenance of health and well-being of individuals throughout life. Relationships between food and nutrition and the social-psychological aspects of health

and development are stressed. This encompasses an understanding of the role and meaning of food in different geographic, cultural, economic, and social settings. The increasingly varied demands for food and nutrition services in the community and in industry are reflected in the choice of study options offered within the major. Work with medical centers, businesses, service institutions, and other agencies and organizations is an integral part of the student's program.

Students are prepared for careers in human nutrition, dietetics, and hotel, motel, restaurant management. Graduates have excellent career opportunities associated with the largest industry in the world—the food industry. Students with majors in food and nutrition are employed in many settings such as hospitals, clinics, community health programs, hotels, motels, restaurants, catering firms, 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. Students who major in hotel, motel, restaurant management are employed in a variety of positions within the hospitality industry. All options within the department prepare students for graduate study and for service with domestic or foreign government agencies.

Two majors are offered within the Department of Food and Nutrition: food and nutrition (F&N) and hotel, motel, restaurant management (HMR). A third major in food science is offered jointly by the College of Human Development and Education and the College of Agriculture.

Minor programs in food and nutrition and hotel, motel, restaurant management consisting of 19-22 credits are also available. Graduate study leading to a Master of Science degree in food and nutrition is available. Faculty in the department are associated with the interdisciplinary Cellular and Molecular Biology program, which leads to a Ph.D. degree. Further details regarding a graduate degree are in the Graduate Bulletin.

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

Food and Nutrition Major

There are two options within the food and nutrition 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.

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 March. The CP is accredited by The American Dietetic Association/Council on Education Accreditation/Approval for dietetic education. Graduates are eligible to take the registration exam for dietitians upon completion of the program.

Didactic Program in Dietetics (DPD)

Option: This option meets requirements for entrance into an accredited dietetic internship and prepares graduates for internships in hospitals, as well as in health care related organizations. The DPD is approved by The American Dietetic Association/Council of Accreditation/Approval, a specialized accrediting body recognized by the United States Department of Education.

Food Science Major

The College of Human Development and Education and the College of Agriculture jointly offer an undergraduate Bachelor of Science degree in food science. For a description of the program, refer to the College of Agriculture section.

Hotel, Motel, Restaurant Management Major

As the nation's number one retail employer, the hospitality industry needs thousands of new employees each year. Along with the rising demand for hospitality services is a growing emphasis on comfort, good service, and nutrition, all of which increase the need for skilled professionals to manage people and meet the needs of today's consumers.

In the hotel, motel, restaurant management major, students prepare for a variety of careers in the hospitality industry. Administrative and management positions in restaurants, hotels, motels, resorts, club management, industrial food services, catering facilities, and college food services are a few of the choices available to these majors.

Supervised, on-the-job experience is required of all students enrolled in the program. Students are placed in hotels, motels, and restaurants in the local community, as well as in other parts of the country including Minneapolis, Chicago, and several western national parks.

Recommended Curriculum Coordinated Program in Dietetics

	Credits	
	F	S
First Year		
Anth 111, Intro to Anthropology	3	
Chem 121, 121L, General Chem I, Lab.	3,1	
Chem 122, 122L, General Chem II, Lab		3,1
Econ 201, Prin of Microeconomics OR Econ 202, Prin of Macroeconomics		3
Engl 110, 120, College Composition I, II		3
HD&E 120, Orientation to HD&E		1
HD&E 189, Skills for Academic Success		1
Math 104, Finite Math or Math 103, College Algebra		3
Psyc 111, Intro to Psychology		3
Humanities and Fine Arts		3
Totals	15	16

	Credits	
	F	S
Second Year		
Biol 202, 202L, Intro Microbiology, Lab		2,1
Chem 240, Survey of Organic Chem	3	
Comm 110, Fund of Public Speaking		3
CSci 146, Busn Use of Computers or CSci 147, Microcomputer Pkgs		3
F&N 150, Nutrition Science		3
F&N 261, 262, Food Select/ Prep Prin, Lab	4,3	
F&N 362, Food Sanitation		3
Stat 330, Intro Statistics.		3
Zoo 120, 120L, Anatomy/Physiology, Lab	4,1	
Elective		2
Totals	18	17

Third Year

Bioc 460, Found of Biochem	4	
Busn 350, Principles of Mgt	3	
F&N 351, Metabolic Basis of Nutri	4	
F&N 352, Nutri/Growth and Devel		3
F&N 354, Intro to Nutri Care	4	
F&N 355, Super Pract Coordinated Prog		1
F&N 361, Food Production Mgt	4	
F&N 450, Nutri Educ/Community	4	
F&N 462, Food Production Lab	3	
HD&E 320, Professional Issues		1
Humanities and Fine Arts	3	
Totals	18	16

Fourth Year

F&N 458, 459, Clinical Nutrition, Lab	4,3	
F&N 460, 461, Foodservice Systems, Lab	3,3	
F&N 480, Dietetics Practicum		10
F&N 481, Capstone Course		2
Elective		3
Totals	16	12

Curriculum Total 128

Recommended Curriculum Didactic Program in Dietetics

	Credits	
	F	S
First Year		
Anth 111, Intro to Anthropology	3	
Chem 121, 121L, General Chem I, Lab	3,1	
Chem 122, 122L, General Chem II, Lab		3,1
Econ 201, Prin of Microeconomics OR Econ 202, Prin of Macroeconomics		3
Engl 110, 120, College Composition I, 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, Intro to Psychology		3
Humanities and Fine Arts		3
Totals	15	16

Second Year

Biol 202, 202L, Intro Microbiology, Lab	2,1	
Chem 240, Survey of Organic Chem	3	
Comm 110, Fund of Public Speaking		3
CSci 146, Busn Use of Computers OR CSci 147, Micro Computer Packages		3
F&N 250, Nutrition Science		3
F&N 261, 262, Food Select/Prep Prin, Lab	4,3	
F&N 362, Food Sanitation		3
Stat 330, Introductory Statistics		3
Zoo 120, 120L, Anatomy/Physiology, Lab	4,1	
Elective		2
Totals	18	17

Third Year

Bioc 460, Found Biochem/Molecular Biol	4	
F&N 351, Metabolic Basis of Nutri	4	
F&N 352, Nutri, Growth and Dev		3
F&N 354, Intro to Nutri Care	4	
F&N 361, Food Production Mgt	4	
F&N 462, Food Production Lab	3	
HD&E 320, Professional Issues		1
Humanities and Fine Arts	3	
Electives		3
Totals	15	16

	Credits	
	F	S
Fourth Year		
Busn 350, Principles of Mgt		3
F&N 450, Nutri Educ/Community		4
F&N 452, Nutri Health and Aging		3
F&N 458, Clinical Nutrition		4
F&N 460, Foodservice Systems		3
F&N 481, Dietetics: Capstone		2
F&N 491, Seminar: Dietetic Intern Appli	1	
Electives	8	3
Totals	16	15
Curriculum Total		128

Recommended Curriculum Hotel, Motel, Restaurant Management Major

	Credits	
	F	S
First Year		
Chem 117, 117L, Chem Concepts/Appli, Lab		3,1
Engl 110, 120, College Composition I, II		3
F&N 170, Intro to Hospitality Industry.		3
F&N 171, Tourism and Travel Mgt		3
HD&E 120, Orientation to HD&E		1
HD&E 189, Skills for Academic Success		1
Math 104, Finite Mathematics		3
Nutr 240, Principles of Nutrition		3
Psyc 111, Intro to Psychology		3
Anth 111, Intro to Anthropology	3	
Totals	14	16

Second Year

Acct 102, Fundamentals of Acct.	3	
Biol 202, 202L, Intro Microbiol, Lab		2,1
Comm 110, Fund of Public Speaking		3
CSci 147, Microcomputer Pkgs		3
Econ 201, Prin of Microeconomics OR Econ 202, Prin of Macroeconomics		3
F&N 261, 262, Food Select/ Prep Prin, Lab	4,3	
Business Elective		3
Humanities and Fine Arts		3
Electives		5
Totals	16	17

Third Year

Busn 350, Principles of Mgt	3	
Busn 351, Organizational Behavior		3
Busn 360, Principles of Mktg	3	
F&N 361, 42, Food Prod Mgt, Lab	4	3
F&N 362, Food Sanitation		3
F&N 370, Hospitality Controllershship	3	
F&N 371, Front Office Mgt		3
F&N 491, Seminar	1	
HD&E 320, Professional Issues		1
Business Elective		3
Humanities and Fine Arts	3	
Totals	17	16

Fourth Year

Busn 450, Human Resource Mgt	3	
Busn 454, International Mgt	3	
F&N 460, Food Service Systems	3	
F&N 465, Prof Catering Mgt		3
F&N 467, Innkeeper's Liability	3	
F&N 470, Hospitality Mktg/Sales	3	
F&N 471, Strat Beverage Oper Mgt		3
F&N 479, Hospitality Ind Mgt Strat		3
F&N 491, Seminar	1	
F&N 496, Field Experience	2	2
Business Elective		3
Totals	15	17

Curriculum Total 128

Minors

A minor is an organized way for students majoring in other areas to pursue personal interests or expand their professional opportunities. Three minors are offered.

Food and Nutrition: A minor in food and nutrition consists of the following courses.

	Credits
F&N 111, Wellness	.3
F&N 261, Food Select and Prep Prin	.4
F&N 262, Food Select and Prep Prin Lab	.3
F&N 319, Consumer Issues in F&N	.3
F&N 361, Food Production Mgt OR	
F&N 362, Food Sanitation	.3-4
Nutr 240, Principles of Nutrition OR	
F&N 250, Nutrition Science	.3

Hotel, Motel, and Restaurant Management: This 23-credit minor consists of the following courses.

F&N 170, Intro/Hospitality Industry	.3
F&N 171, Tourism/Travel Mgt	.3
F&N 261, Food Select and Prep Prin	.4
F&N 262, Food Select and Prep Prin Lab	.3
F&N 370, Hospitality Controllorship	.3
F&N 371, Front Office Mgt	.3
F&N 196 or 496, Field Experience	.1

Nutrition: This 22-credit minor, recommended for human performance and fitness majors, consists of the following courses.

F&N 111, Wellness	.3
F&N 250, Nutrition Science	.3
F&N 319, Consumer Issues in F&N	.3
F&N 351, Metabolic Basis of Nutrition	.4
F&N 352, Nutrition, Growth, and Devel	.3
F&N 435, Nutr in Disease/Health Prof	.2
F&N 450, Nutrition Educ/Community	.4

Health, Physical Education, and Recreation

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, and athletics training. Majors are available in physical education (teaching and non-teaching), human performance and fitness, recreation management, and athletic training. Minors offered are physical education, and health education.

Athletic Training Major

A sequence of eight courses forms the basic framework for student academic experiences in athletic training. This format provides continuity through the introduction of new knowledge and skills and the reinforcement of them each semester. Students interested in athletic training begin in the fall and enter the observation phase. During the second semester of the observation phase, students submit an application of admission to the curriculum phase. Enrollment is limited according to the number of students entering the curriculum phase of the program. Courses required for acceptance into the curriculum phase include the following: HPER 180 (Athletic Trainers Profession), HPER 181 (Practical Application for Protective Devices and Taping), HPER 240 (First Aid and CPR for the Professional Rescuer), and Zoo 120, 120L (Human Anatomy and Physiology, Laboratory).

The Athletic Training curriculum meets the standards of the Commission on Accreditation of Allied Health Education Programs (CAAHEP). This curriculum provides students with a combination of academic course work and supervised clinical opportunities necessary to qualify as candidates for the National Athletic Trainers Association (NATA) certification examination. Students have opportunities to apply classroom learning to actual situations by taking an active role in the prevention, recognition, and management of injury with NDSU intercollegiate athletic teams.

The completion of a major in athletic training and NATA certification provides career opportunities in high schools, colleges, professional sports programs, and other athletic health care agencies. Examples of health care agencies include corporate health programs, sports medicine clinics, and athletic training curriculum programs.

Recommended Curriculum Athletic Training

	Credits	
	F	S
First Year		
Comm 110, Fund of Public Speaking	3	
Engl 110, 120, College Composition I, II	3	
HD&E 120, Orientation to HD&E	1	
HD&E 189, Skills for Academic Success	1	
HPER 110, Intro to HPER	1	
HPER 180, Athletic Training Profession	2	
HPER 181, Pract Appli/Protec Devices	2	
HPER 217, Pers and Community Health	3	
Math 104, Finite Mathematics	3	
Psyc 111, Intro to Psychology	3	
Zoo 120, 120L, Anatomy/Physiology, Lab	4,1	
Humanities and Fine Arts	3	
Totals	<u>16</u>	<u>17</u>

Second Year

Chem 117, Chem Concepts & Appli	3	
CSci 147, Microcomputer Packages	3	
F&N 250, Nutrition Science	3	
HPER 260, Athletic Train Obser	2	
HPER 281, 286, Injury Recognition, Lab	3,1	
HPER 282, Athletic Training Equip	2	
HPER 284, 285, Athletic Training Pract I	3	
Phrm 170, Common Medicines/Diseases	2	
Phys 120, Fund of Physics	3	
Global Perspectives	3	
Totals	<u>16</u>	<u>15</u>

Third Year

HPER 240, First Aid and CPR	2	
HPER 365, 366, Kinesio/Biomechan Lab	3,1	
HPER 380, Emergency Response	3	
HPER 384, Field Eval/Ath Inju	3	
HPER 385, Therapeutic Modalities	3	
HPER 386, 387, Athletic Training Pract II	3	
HPER 465, 466, Physiol/Exer, Lab	3,1	
Cultural Diversity	3	
Totals	<u>15</u>	<u>13</u>

Fourth Year

HPER 430, Psycho-Social/Phys Act	3	
HPER 440, Health/Safety Services	3	
HPER 486, Rehab and Reconditioning	3	
HPER 487, Admin/Athletic Train Prog	3	
HPER 488, 489, Athletic Training Pract III	3	
Psyc 350, Research Methods I	3	
Stat 330, Introductory Statistics	3	
Humanities and Fine Arts	3	
Elective	3	
Totals	<u>15</u>	<u>15</u>

Curriculum Total 122

Human Performance and Fitness Major

The major in human performance and fitness (HPF) is designed to prepare students for entry-level positions in fitness, wellness, and health promotion programs in corporate, business, resort, or community settings. Completion of the major in HPF will also prepare the exceptional student for graduate education in exercise physiology, food and nutrition, sports medicine, preventive and rehabilitative cardiovascular health, wellness management, or behavioral health.

The HPF program includes the study of physical activity, program implementation, and behavioral and health sciences. Majors are required to complete a nutrition minor, and are encouraged to select an additional area such as business, psychology, or gerontology, depending on their interests. The internship required at the end of the HPF program offers the student the opportunity to select an area of interest in the field in sites available throughout the country. Essential skills cited by corporate fitness directors include knowledge of health and fitness, expertise in exercise prescription and nutrition counseling, communication and public relations, the ability to motivate, and administrative talent.

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		
CSci 147, Microcomputer Pkgs	3	
Engl 110, 120, College Composition I, II	3	
HD&E 120, Orientation to HD&E	1	
HD&E 189, Skills for Academic Success	1	
HPER 110, Intro to HPER	1	
HPER 170, Intro Human Perform/Fit	2	
HPER 217, Personal/Commun Health	3	
Math 104, Finite Mathematics OR	3	
CSci 150, Programming in BASIC		
Zoo 120, 120L, Anatomy/Physiology, Lab	4,1	
Electives	3	
Totals	<u>16</u>	<u>15</u>

Second Year

Chem 117, Chem Concepts & Appli OR		
Chem 121, Gen Chem I	3	
Comm 110, Fund of Public Speaking	3	
F&N 250, Nutrition Science	3	
HPER 280, Sport Safety Train	3	
Humanities	3,3	
Social and Behavioral Sciences	3	
Electives	3	
Totals	<u>15</u>	<u>17</u>

Third Year

F&N 319, Consumer Issues/F&N	3	
F&N 435, Nutri/Disease/Health	2	
HPER 365, 366, Anat/Kinesiol, Lab	3,1	
HPER 465, 466, Physiol/Exer, Lab	3,1	
HPER 470, Activity Benefits/Exercise	3	
HPER 491, Seminar	1	
Electives	9	
Totals	<u>16</u>	<u>16</u>

Fourth Year	Credits	
	F	S
HPER 467, EKG Monitor/Adv Physiology	2	
HPER 471, Program Implementation	3	
HPER 472, Exercise Testing/Appli	2	
HPER 475, HPF Internship		12
HPER 496, Field Experience	1,1	
Electives	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 130) 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

First Year	Credits	
	F	S
Comm 110, Fund of Public Speaking	3	
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 110, Intro to HPER	1	
HPER 150, Foundations of Phys Ed	2	
HPER 151, Prof Activ/Rec Activ/Sports		3
HPER 155, Prof Prep/Ind/Dual Sports	3	
HPER 217, Personal/Commun Health		3
Psyc 111, Intro to Psychology	3	
Soc 110, Intro to Sociology	3	
Science and Technology	2	
Totals	16	15

Second Year		
HPER 152, Prof Activ/Team Sports	3	
HPER 153, Prof Prep/Dance		3
HPER 154, Prof Prep/Aquatics	3	
HPER 250, Movement Analysis	3	
HPER 280, Sport Safety Training	3	
Zoo 120, 120L, Anatomy/Physiology, Lab	4,1	
Humanities	3	3
Quantitative Reasoning	3	
Science and Technology		3
Totals	17	15

Third Year	Credits	
	F	S
Educ 321, Intro to Teaching	3	
Educ 322, Educational Psychology	3	
Educ 381, Early Experience	1	
Educ 451, Inst Plan/Strategies		3
Educ 481, Methods of Teaching I		3
HPER 350, Fitness Edu/Act/Mat		3
HPER 351, Elem Phys Ed/Act/Mat	3	
HPER 352, Sec Phys Ed/Act/Mat		3
HPER 367, Prin of Conditioning	3	
Minor/Electives	2	3
Totals	15	15

Fourth Year		
Educ 389, Native Am/Inst Pract	3	
Educ 485, Student Teaching Seminar		1
Educ 486, Classroom Mgt		3
Educ 487, Student Teaching		10
HPER 430, Psycho-Social/Phys Act	3	
HPER 460, Prog Admin/Curr Design	3	
Minor	6	
Totals	15	14
Curriculum Total	122	

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

First Year	Credits	
	F	S
Comm 110, Fund of Public Speaking	3	
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 110, Intro to HPER	1	
HPER 150, Foundations of Phys Ed	2	
HPER 151, Prof Activ/Rec Activ/Sports		3
HPER 155, Foundations/Phys Educ	3	
HPER 217, Personal/Commun Health		3
Psyc 111, Intro to Psychology	3	
Soc 110, Intro to Sociology	3	
Science and Technology	2	
Totals	16	15

Second Year		
HPER 152, Prof Prep/Team Sports	3	
HPER 153, Prof Prep/Dance		3
HPER 154, Prof Prep/Aquatics	3	
HPER 250, Movement Analysis	3	
HPER 280, Sport Safety Training	3	
Zoo 120, 120L, Anatomy/Physiology, Lab	4,1	
Humanities	3	3
Quantitative Reasoning	3	
Science and Technology		3
Totals	17	15

Third Year		
HPER 350, Fitness Edu/Act/Mat	3	
HPER 351, Elem Phys Ed/Act/Mat	3	
HPER 352, Sec Phys Ed/Act/Mat		3
HPER 367, Prin of Conditioning	3	
Electives	9	
Totals	15	14

Fourth Year	Credits	
	F	S
HPER 430, Psycho-Social/Phys Act	3	
HPER 460, Prog Admin/Curr Design	3	
Electives	9	15
Totals	15	15
Curriculum Total	122	

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

First Year	Credits	
	F	S
Comm 110, Fund of Public Speaking	3	
CSci 147, Microcomputer Packages	3	
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	
HPER 110, Intro to HPER	1	
HPER 151, Prof Activ/Rec Activ/Sports		3
HPER 153, Prof Prep/Dance		3
HPER 155, Prof Prep/Ind/Dual Sport	3	
HPER 196, Field Experience	1	
HPER 200, Foundations of Recrea	2	
Totals	14	15

Second Year		
Art 200 Series, Studio Art Elective	3	
CDFS 230, Life Span Development	3	
HPER 196, Field Experience		1
HPER 225, Camp Mgt/Outdoor Rec	2	
HPER 280, Sport Safety Training		3
Humanities	3	
Science and Technology (one with lab)	4,1	6
Social and Behav/Cultural Diversity		3
Electives		5
Totals	15	15

Third Year		
HPER 326, Recreation Prog	3	
Thea 160, Intro to Acting OR		
Thea 161, Acting I	3	
Humanities	3	
Quantitative Reasoning		3
Social/Behavioral Science		3
Electives	6	6
Totals	12	15

Summer Session		
HPER 429, Recreation Internship	12	

Fourth Year	Credits	
	F	S
HPER 426, Parks and Rec Admin	3	
HPER 427, Leisure and Society	3	
HPER 491, Seminar		1
Soc 440, Sociology of Aging	3	
Electives	6	8
Totals	12	12

Curriculum Total 122

Recommended Curriculum

Health Education Minor

Recommended with a teaching major.

	Credits
CDFS 135, Family Science	3
HPER 210, First Aid Resp/Emergencies OR HPER 280, Sport Safety Training	2-3
HPER 217, Pers/Community Health	3
HPER 345, Meth/Mat/Compre/Schl Hlth	3
HPER 445, Org/Admin/Coord Schl Hlth	3
NUTR 240, Prin of Nutrition OR F&N 250, Nutrition Science	3
Psyc 212, Psychol Aspects/Drug Use/Abuse	3
Zoo 120, 120L, Anatomy and Physiology, Lab	4.1
Total	25-26

Recommended Curriculum

Physical Education Minor

Required:	Credits
HPER 110, Introduction to HPER	1
HPER 150, Foundations of Phys Ed	2
HPER 153, Prof Prep/Dance	3
HPER 250, Movement Analysis	3
HPER 280, Sport Safety Training	3
HPER 336, Methods of Coaching	3
HPER 367, Principles of Conditioning	3
HPER 460, Prog/Admin/Curric Design	3
Choose one of the following:	
HPER 151, Prof Activ/Rec Activ/Sports	3
HPER 152, Prof Prep/Team Sports	3
HPER 154, Prof Prep/Aquatics	3
HPER 155, Prof Prep/Indiv/Dual Sports	3
Choose one of the following:	
HPER 350, Fitness Edu Activ/Matls	3
HPER 351, Elem Phys Ed Activ/Matls	3
HPER 352, Sec Phys Ed/Activ/Matls	3
Choose one of the following:	
Educ 481, Methods/Teach Sec Phys Ed	2
Educ 482, Methods/Teach Elem Phys Ed	2
Total	29

Satisfactory completion of this minor meets Minnesota Coaching Certification requirements. Students who wish to enter the coaching profession should consider taking a sport specific coaching course (HPER 330, 331, 332, 333, 334, or 335) and choosing HPER 430, 435, and 496 as electives.

Graduate Program

The Master of Education degree in education with a physical education option is offered jointly by the Department of Health, Physical Education, and Recreation 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 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 make application for admission to the School of Education during or immediately following the introductory professional education course. 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. 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 2.50 in the student's total academic program. Transfer students shall complete a minimum of one semester's work and obtain a 2.50 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 111 or equivalent.
 - minimum of a B grade in English 358 or equivalent writing course.
5. Achieve a grade of B or better in Speech 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 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 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

- Students must complete one of the following (a or b):
 - Provide evidence of achieving a minimum score on the PK to be recommended for teacher certification.
 - Present a portfolio developed throughout the professional education courses in an interview setting with program faculty.
- Students must earn a minimum GPA of 2.50 in each of the following programs:
 - total academic programs.
 - teaching specialties.
 - professional education courses consisting of a minimum of 27 credits.
- Students may complete an application for state certification 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 are 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, 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 of 30 credits 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	5-10

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	Mathematics
Biological Sciences	Music
Chemistry	Physical Education
Comprehensive Science	Physics
English	Social Science
Family and Consumer Sciences	Sociology
Education	Soils (Earth Science)
French	Spanish
German	Speech Communication
History	

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. 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 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 requirements for North Dakota, there are provisions for completing Minnesota teacher licensure requirements. Basic preparation is also available for teaching in family and consumer sciences occupational program areas.

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 the elementary grades or 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 for Physical Education and Music Majors

Certification 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 213, 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.

Majors in elementary education and in special education are available through the Tri-College consortium. Contact the School of Education office, NDSU, for more information.

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 Agriculture 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 Education3
H&CE 496, Extension Internship	<u>6-9</u>
Total	20-23