**College of Education and Human Development**

This is the College of Education and Human Development section of the 1999-2000 Undergraduate Catalog of the University of Minnesota.

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On the Day You Were Born

Debra Frasier
College of Education and Human Development

The College of Education and Human Development (CEHD) consists of six departments: child psychology, curriculum and instruction, educational policy and administration, educational psychology, kinesiology and leisure studies, and work, community and family education. Classrooms, offices, and more than 20 research and service centers occupy six buildings on the Minneapolis campus and one building on the St. Paul campus. Founded in 1905, the college has 700 undergraduate students, 2,500 graduate students, and 125 faculty.

CEHD’s mission is to generate knowledge about teaching, learning, and human development and apply that knowledge to improve education for all individuals. One of the things that sets the college apart from other colleges of education is the breadth, depth, and careful integration of its core disciplines and fields of study. Another is the college’s strong commitment to community outreach as well as intellectual development. This extensive network of community ties facilitates both the transfer of knowledge to practice and the incorporation of community viewpoints into the college’s teaching and research missions.

The roles and requirements of educators and human development professionals have expanded dramatically in the past decade. Administrators, practitioners, and researchers must have a new breadth and depth of knowledge. To meet the complex needs of 21st-century learners, colleges must prepare educational leaders who will shape policies, define agendas, and initiate fundamental change. Consistently ranked as one of the most productive professional schools of education in the country—public or private—the college is a state, national, and international leader in teaching, research, and outreach. Several of the college’s academic units are ranked in the top five nationally and its graduate programs place the college as one of the University’s leading academic units in conferring graduate degrees.

Admission

Students wishing to complete a CEHD major begin a course of study in a freshman-admitting college and transfer to CEHD after one or two years of specified courses, depending on their desired major.

Admission to CEHD is decided on the basis of academic standards and other factors, which vary somewhat by program. Criteria may include prerequisite courses, grade point average (GPA), total credits, and experience related to the proposed career. Some undergraduate programs admit students fall and spring semesters; others admit students once per year.

Prospective students are strongly encouraged to attend an information group meeting or meet with an adviser before applying. For more information, contact Student & Professional Services (SPS), 110 Wulling Hall, 86 Pleasant Street S.E., Minneapolis, MN 55455 (612/625-6501).

Programs of Study

CEHD is a professional school focused on both undergraduate and advanced study, offering programs of study in a wide range of education and human development disciplines. Students can prepare for careers in government, business, and community settings as well as in education in either formal or nonformal settings. Programs of study include bachelor of science (B.S.), certificates, initial teacher licensure, master of education (M.Ed.), and endorsement. The Graduate School offers the master of arts (M.A.), specialist certificate, doctor of education (Ed.D.), and doctor of philosophy (Ph.D.) in education and human development.

Undergraduate programs are described below. For information about other programs, see the college’s professional studies catalog or the Graduate School Catalog.

Bachelor of Science (B.S.)

The college’s undergraduate majors prepare students for careers as educators and human development professionals in varied settings. All University of Minnesota students, whatever their declared major, may complement their degree programs by taking a variety of elective courses available in all six CEHD departments.

Agricultural Education—Prepare to teach agriculture-related subjects to grades 5-12 or adults by specializing in either agricultural science and technology or natural and managed environmental education. Also, prepare to work in agricultural industry and business settings by specializing in agricultural leadership, training, and development.

Business and Industry Education—Train and supervise others in industry and business or teach vocational and technical education in technical colleges. If students want to teach in public schools, this major is the foundation for the M.Ed./initial licensure program in business and industry education.

Child Psychology—See College of Liberal Arts section.

Foundations of Education—Work as an educator or human services professional in an informal setting or prepare for elementary teacher licensure. When students complete the B.S., they can go on to complete licensure with only two to three additional semesters at the master’s level.
Human Resource Development—Prepare for human resource development positions in business, training and development, quality improvement, career development, employee assistance, or other areas. Students also can prepare for graduate study in this field.

Kinesiology—Pursue a career in fitness/wellness, human performance, and health programs or prepare for teacher licensure at the master’s level in physical education. Students also can prepare for professional degrees in the health sciences, including physical/occupational therapy, athletic training, medicine, and nursing.

Music Education—See College of Liberal Arts section.

Recreation, Park, and Leisure Studies—Prepare for leadership, supervisory, or administrative positions in recreation, park, and leisure services agencies. Students can specialize in leisure services management or therapeutic recreation.

Sport Studies—This major focuses on contemporary sport as a product of social, psychological, and economic phenomena. Choose an emphasis in coaching, pre-sport management, or youth service/development.

Minor

The coaching minor is available to students admitted to a B.S. degree program in the college’s School of Kinesiology and Leisure Studies. For more information, call (612) 625-5300.

Policies and Procedures

S-N Grading—CEHD strictly limits the use of S-N grading. All major coursework in an undergraduate program must be taken A-F unless otherwise indicated. See the Class Schedule to determine grading options for each course.

Change in Major—CEHD undergraduates who wish to change or add a major within the college should apply through SPS, 110 Wulling Hall (612/625-6501).

Graduation Requirements

Amount and Quality of Work—Completion of at least 120 credits (in some specialized curricula the number of credits is more than 120) with a C (2.00) average, including the specified coursework in psychology (minimum grade of C-) and writing, is required for graduation. All GPA requirements for student teaching, internships, and graduation are computed using University of Minnesota—Twin Cities coursework only. Contact SPS, 110 Wulling Hall (612/625-6501), or the major department for specific requirements for individual majors.

Applying for a Degree—Students should apply for a degree at 200 Fraser Hall at least one semester before they expect to graduate. In addition, students whose major fields are agricultural education, business and industry education, human resource development, kinesiology, or recreation, park, and leisure studies must file an adviser-approved program with the Student Scholastic Standing Committee.
Students with early-admission status must

• attend a one-credit course (EdHD 3001—Exploring the Teaching Profession) with other pre-education students each semester they are part of the early-admission option.
• complete at least 100 hours of work experience in an educational setting (at least two hours per week over six to nine months) as part of EdHD 3001.
• complete their undergraduate degree in two years.
• maintain a 3.00 minimum GPA, overall and in their major.
• begin the licensure program within two years of graduating from their undergraduate program.
• attend a prerogistration meeting.

Students may apply for early-admission status during the spring semester of the academic year in which they complete 60 credits. The deadline is April 15.

For more information about early-admission requirements, contact SPS, 110 Wulling Hall (612/625-6501).

Advising
Student & Professional Services (SPS) is CEHD’s centralized admissions and student services office (110 Wulling Hall, 612/625-6501). SPS provides general information, enrollment, registration, and career services for prospective students, applicants, enrolled students, and graduates. Professional advising staff are available on a walk-in basis in the lobby a few hours each weekday to answer general questions regarding admission, program requirements, academic planning, registration, academic progress, scholarships, career services, teacher licensure, and commencement, among many other student affairs issues. SPS also offers information group meetings monthly for individual degree programs.

Special Learning Opportunities, Resources, and Organizations

Diversity Initiatives
CEHD is committed to recruiting, enrolling, and educating a diverse population of students who represent the overall composition of U.S. society. The college has several programs that provide support for increasing its student population diversity. In addition, the college has an ongoing Committee on Diversity made up of students, faculty, and staff. For more information on college diversity initiatives, contact SPS, 110 Wulling Hall (612/625-6501).

Computing Facilities
CEHD students have access to several instructional computing labs, four computer classrooms, and several smaller computer learning areas for students and faculty. For more information about University computing services and facilities, see “Computing” in the General Information section of this catalog.

College of Education and Human Development Alumni Society
Alumni can benefit from a combined membership in the Education and Human Development Alumni Society and the University of Minnesota Alumni Association (UMAA). With more than 3,800 members, the society conducts a variety of professional and social activities each year for CEHD graduates. Members receive a variety of benefits, including the CEHD alumni magazine, The Link; the UMAA magazine, Minnesota; Internet access; discounts on theatre and athletic tickets; and library access. For membership information, call (612) 625-1310 or 800-UM ALUMS.

Scholarships
In addition to financial aid opportunities offered by the University, CEHD administers several scholarship programs of its own. Awards are subject to change or cancellation depending on availability of funds. Details about qualifications and application materials and instructions may be obtained from department offices or SPS, 110 Wulling Hall (612/625-6501).

Career Information
Education and human development fields are among the fastest growing career tracks in the country. Demographic changes expected over the next several decades will cause increased demand for professionals in such fields as early childhood education, special education, English as a second language, recreation and leisure studies, technology education, child psychology, and human resource development. CEHD graduates work in public school classrooms, higher education institutions, corporate education settings, human service agencies, school and clinical settings, and a broad range of other occupations. SPS can provide career counseling and information as well as referrals to other University career and employment services.

Prospective students can learn more about the current employment outlook for teachers during information sessions, through individual advising, and from the college’s annual placement report. The Occupational Status Report of Graduates: How Their Careers Began. For more information, contact SPS Career Services (612/625-9884).

Student Organization
The Association of Students in Education and Human Development (ASEHD) is open to all CEHD undergraduates as well as students in other University colleges who aspire to be educators or human development professionals. ASEHD has three subcommittees: intramurals, professional development, and community service. The intramural group participates in intramural sports organized by the University’s Department of Recreational Sports. Students interested in learning more about their chosen careers participate in the professional development group. The community service group serves the college, University, and Twin Cities metropolitan area. For more information, contact SPS, 110 Wulling Hall (612/625-6501).
Through Web66, the college helped develop the nation's first elementary school Web site at Hillside Elementary School in Cottage Grove, Minnesota.

Directory (area code 612)

Administrative Offices
College Office
104 Burton Hall, Minneapolis
<www.coled.umn.edu/>
625-6806

Student & Professional Services (SPS)
110 Wulling Hall, Minneapolis
<sp.coled.umn.edu/students/>
625-6501, fax 626-1580
e-mail: spsinfo@tc.umn.edu
  Academic Progress
  Admission
  Advising
  Career Services
  Commencement
  Graduation Requirements
  Registration (625-5815)
  Teacher Licensure

Development and Alumni Relations
105 Burton Hall, Minneapolis
625-1310

Departments
Curriculum and Instruction
145 Peik Hall, Minneapolis
<ci.coled.umn.edu>
Fred Finley, chair
625-6372

Educational Policy and Administration
330 Wulling Hall, Minneapolis
<edpa.coled.umn.edu>
James Hearn, chair
624-1006

Educational Psychology
206 Burton Hall, Minneapolis
<edpsy.coled.umn.edu>
Susan Hupp, chair
624-3543

Institute of Child Development
180 Child Development Building, Minneapolis
<icd.coled.umn.edu>
Richard Weinberg, director
624-0526

Kinesiology and Leisure Studies
110 Cooke Hall, Minneapolis
<www.kls.coled.umn.edu>
Michael Wade, director
625-5300
Bob Pickert, undergraduate contact
625-8868

Work, Community, and Family Education
210A Vocational and Technical Education Building, St. Paul
<wcfe.coled.umn.edu/>
Jane Plihal, chair
625-3757

Organizations
Association of Students in Education and Human Development
Student & Professional Services
110 Wulling Hall, Minneapolis
625-6501

College of Education and Human Development Alumni Society
105 Burton Hall, Minneapolis
<www.coled.umn.edu/alumni/>
625-1310
College of Education and Human Development

Agricultural Education

Department of Work, Community, and Family Education

B.S.

Agricultural Science and Technology Education Specialization

This undergraduate specialization is a collaborative partnership by CEHD and the College of Agricultural, Food, and Environmental Sciences. It serves students preparing to teach agriscience, agribusiness, agriculture, horticulture, food systems, agrimechanics, and natural resource management under the licensure field of agricultural education in public schools at the 5-12 level. In addition, graduates of this specialization also are qualified for a broad array of agriculturally related positions in sales, management, finance, and production aspects of agriculture. The specialization allows students to have an emphasis area that includes a broad agricultural science and technology background.

Admission Requirements—Students may be admitted to this program as freshmen or may transfer into the program any semester. They must maintain an overall GPA of 2.75 and complete the Praxis I: Preprofessional Skills Test (PPST).

Degree Requirements

To complete the degree, students must complete at least 128 credits, including required courses in the major. The specialization requires a broad study of agriculture, including plant science (horticulture, agronomy, plant pathology, and entomology), animal science, natural resources, soils, economics and agribusiness, agricultural mechanization, food science, foundations of education, foundations of agricultural education, and a full student teaching experience.

Required Courses

Students must meet the University’s liberal education requirements. In addition, students must meet the following requirements.

Prerequisites (44-46 cr)
Prerequisite courses may apply toward liberal education requirements—see adviser.

Communications (10 cr)
Rhet 1101—Writing to Inform, Convince, and Persuade (4 cr)
Rhet 1223—Oral Presentations in Professional Settings (3 cr)
Rhet 5652—Technical and Professional Writing (3 cr)

Core Sciences (19-21 cr)
Chem 1011—General Principles of Chemistry (4 cr)
BioC 1012—General Principles of Biochemistry (3 cr)
Biol 1009—General Biology (4 cr)
or Biol 1051—Introduction to Environmental Science (3 cr)
MicB 2022—General Microbiology (2 cr)
or Phys 1101—Fundamental Physics I (4 cr)
ScAg 1501—Biotechnology, People, and the Environment (3 cr)

Mathematics (3 cr)
Math 1031—College Algebra and Probability (3 cr)

Social Science (12 cr)
HSci 1814—Introduction to History of Science: Ancient Study (4 cr)
HSci 1815—Introduction to History of Science: Modern Science (4 cr)
Psy 1001—Introduction to Psychology (4 cr)

Agricultural Sciences and Applied Economics (40 cr)

Plus 3-4 credits from the following:
Agro 3003—Introduction to Integrated Weed Management (1 cr)
Ent 3001—Insects and Insect Management (1 cr)
PPa 3001—Plant Disease Biology and Management (1 cr)

Plant Science (6 cr)
Agro 1033—Crops, Environment, and Society (4 cr)
Agro/Hort 4401 Plant Genetics and Breeding (4 cr)
Hort 1001—Plant Propagation (4 cr)
Hort 1002—Home Horticulture (3 cr)
Hort 1012—Woody Landscape Plants (4 cr)
Hort 1013—Interior Floral and Foliage Design (3 cr)
Hort 3002—Greenhouse Management (3 cr)

Animal Science (6 cr)
AnSc 1203—Introduction to Animal Nutrition (2 cr)
or AnSc 2401—Animal Nutrition (3 cr)

Plus 3-4 credits from the following:
AnSc 1101—Introductory Animal Science (4 cr)
AnSc 1511—Food Animal Products for Consumers (3 cr)
AnSc 2012—Livestock and Carcass Evaluation (3 cr)
AnSc 2301—Systemic Physiology (4 cr)
AnSc/Agro 1201—Environment, Global Food Production, and Citizens (3 cr)
AnSc 3221—Animal Breeding (4 cr)

Natural Resources (6 cr)
FW 2001—Introduction to Fisheries, Wildlife, and Conservation Biology (3 cr)

Plus 3 credits from the following:
Agro/AnSc 2303—Environment, Global Food Production, and Citizens (3 cr)
EEB 3001—Ecology and Society (3 cr)
ES 1011—Issues in the Environment (3 cr)
NRES 1201—Conservation of Natural Resources (3 cr)

Soils (4 cr)
Soil 1125—The Soil Resource (4 cr)
or Soil 2125—Basic Soil Science (4 cr)

Applied Economics and Agribusiness (8-9 cr)
ApEc 1101—Principles of Microeconomics (3 cr)
ApEc 3451—Food and Agricultural Sales (3 cr)

Plus 2-3 credits from the following:
ApEc 1251—Principles of Accounting (3 cr)
ApEc 3401—Markets, Marketing, and Prices (2 cr)
ApEc 3811—Principles of Farm Management (3 cr)
ApEc 3821—Retail Center Management (3 cr)

Agricultural Mechanization (6 cr)
Select two of the following courses:
AgEE 2051—Current Technical Competencies (3 cr)
AgEE/BIE 3112—Technical Drawing and Production Technologies (3 cr)
AgEE/BIE 3121—Communication, Energy, Power, and Machinery Technology (3 cr)

Food Science (3 cr)
FScN 1102—Food: Safety, Risks, and Technology (3 cr)
Professional Education (40 cr)

Foundations (15 cr)
- EdHD 5001—Learning, Cognition, and Assessment in the Schools (3 cr)
- EdHD 5003—Developmental and Individual Differences (3 cr)
- EdHD 5005—School and Society (2 cr)
- EdHD 5007—Technology for Teaching and Learning (1.5 cr)
- EdHD 5009—Human Relations (1 cr)
- EdIPA 5341—The American Middle School (3 cr)

Agricultural Education (15 cr)
- AgEE 1001—Introduction to Agricultural Education (1 cr)
- AgEE 1002—Career Planning for Agricultural Professionals (1 cr)
- AgEE 2096—Professional Practicum: Early Experience (1 cr)
- AgEE 5111—Agricultural Education Methods of Teaching (4 cr)
- AgEE 5112—Agricultural Education Program Organization and Curriculum for Youth (4 cr)
- AgEE 5113—Agricultural Education Adult Program Development and Technology (3 cr)
- AgEE 5114—Agricultural Education Seminar (1 cr)

Work, Community, and Family Education (10 cr)
- WCxFE 5301—Philosophy and Practice of Vocational Education (2 cr)
- WCxFE 5697—Teaching Internships: School and Classroom Settings (2 cr)
- WCxFE 5698—Teaching Internship (6 cr)

B.S. Agricultural Leadership, Training, and Development Specialization

The specialization provides a unique, futuristic educational opportunity combining agricultural science, communication, leadership, education, business and industry, training, and development. It provides a general background in agriculture, with agribusiness and industry associations.

The agricultural industry is faced with leadership and employee training and development challenges. This specialization provides students with opportunities and flexibility in employment ranging from human resource development, sales and marketing, extension, and communications in statewide, national, and international situations.

Degree Requirements

To complete the degree, students must complete at least 124 credits, including required courses in the major. The degree requirements for this program require the completion of the courses and business experience. Students must maintain an overall GPA of 2.00.

Required Courses

Students must meet the University’s liberal education requirements. In addition, students must meet the following requirements.

Prerequisites (35 cr)
Prerequisite courses may apply toward liberal education requirements—see adviser.

Communications (10 cr)
- Rhet 1101—Writing to Inform, Convince, and Persuade (4 cr)
- Rhet 3266—Group Process, Team Building, Leadership (3 cr)
- Rhet 1152—Writing on Issues of Science and Technology (3 cr)

Mathematics (3 cr)
- Math 1031—College Algebra and Probability (3 cr)

Physical and Biological Sciences (14 cr)
- Agro 1103—Crops, Environment, and Society (4 cr)
- or
- Biol 1002—General Biology (4 cr)
- BioC 1012—General Principles of Biochemistry (1 cr)

Chemistry (1 cr)
- Chem 1011—General Principles of Chemistry (4 cr)

Biotechnology (3 cr)
- ScAg 1501—Biotechnology: People and the Environment (3 cr)

Social Science (8 cr)
- Phil 1003—Introduction to Ethics (4 cr)
- Psy 1001—Introduction to Psychology (4 cr)

Agricultural Sciences and Economics (52 cr)

Plant Science (9 cr)
- Agro 3003—Introduction to Integrated Weed Management (1 cr)
- Ent 3001—Insects and Insect Management (1 credit)

Applied Economics and Agribusiness (12 cr)
- ApEc 1101—Principles of Microeconomics (3 cr)
- ApEc 1251—Principles of Accounting (3 cr)
- ApEc 3451—Food and Agricultural Sales (3 cr)

Applied Economics and Agribusiness (12 cr)
- ApEc 3811—Principles of Farm Management (3 cr)
- ApEc 3821—Retail Center Management (3 cr)

Animal Science (10 cr)
- AnSc 1101—Introductory Animal Science (4 cr)
- AnSc 1403—Companion Animal Nutrition and Care (2 cr)
- AnSc 2401—Animal Nutrition (3 cr)

Animal Science (10 cr)
- AnSc 1101—Introductory Animal Science (4 cr)
- AnSc 1403—Companion Animal Nutrition and Care (2 cr)
- AnSc 2401—Animal Nutrition (3 cr)

Soils (7 cr)
- Soil 1125—The Soil Resource (4 cr)
- Soil 2125—Basic Soil Science (4 cr)

Applied Economics and Agribusiness (12 cr)
- ApEc 3401—Markets, Marketing and Prices (2 cr)
- ApEc 3811—Principles of Farm Management (3 cr)
- ApEc 3812—Livestock and Carcass Evaluation (3 cr)
- AnSc 3203—Environment, Global Food Production and Citizens (3 cr)

Agricultural Mechanization (3 cr)
- AgEE 2051—Current Technical Competencies (3 cr)

Emphasis Area

Students must select 10 credits in one of the following three emphasis areas:

Agricultural Science (10 cr)
- Agro 2103—Grain Grading and Crop Utilization (1 credit)
- Agro 2105—Seed Technology (1 credit)
- Agro 2501—Weed Biology and Systemics (2 cr)
- Agro 3203—Environment, Global Food Production, and the Citizen (3 cr)

Animal Science (10 cr)
- AnSc 1101—Introductory Animal Science (4 cr)
- AnSc 1403—Companion Animal Nutrition and Care (2 cr)
- AnSc 2401—Animal Nutrition (3 cr)

Agricultural Business and Management (10 cr)
- ApEc 3411—Grain Marketing Economics (2 cr)
- ApEc 3421—Livestock and Meat Marketing Economics (2 cr)
- ApEc 3811—Principles of Farm Management (3 cr)

Communication (10 cr)
- Rhet 1152—Writing on Issues of Science and Technology (3 cr)
- Rhet 3266—Group Process, Team Building, Leadership (3 cr)
- Rhet 3401—Accessing Information Through Electronic Media (3 cr)

Agro 1101—Biology of Plant Food Systems (3 cr)
Agro 2501—Weed Biology and Systematics (2 cr)
Agro 3005—Applied Crop Physiology and Development (2 cr)
AnSc 3203—Environment, Global Food Production and Citizens (3 cr)
Hort 1001—Plant Propagation (4 cr)
Hort 1002—Home Horticulture (3 cr)
Hort 3005—Environmental Effects on Horticultural Crops (2 cr)
AnSc 1511—Food Animal Products for Consumers (3 cr)
AnSc 3203—Environment, Global Food Production and Citizens (3 cr)
Soil 1425—The Atmosphere (3 cr)
Soil 3221—Soil Conservation and Land-Use Management (3 cr)
Soil 3416—Plant Nutrients in the Environment (3 cr)
Soil 1125—The Soil Resource (4 cr)
Soil 2125—Basic Soil Science (4 cr)
Soil 1425—The Atmosphere (3 cr)
Soil 3221—Soil Conservation and Land-Use Management (3 cr)
Soil 3416—Plant Nutrients in the Environment (3 cr)
ApEc 1101—Principles of Microeconomics (3 cr)
ApEc 1251—Principles of Accounting (3 cr)
ApEc 3451—Food and Agricultural Sales (3 cr)
Agro 2103—Grain Grading and Crop Utilization (1 credit)
Agro 2105—Seed Technology (1 credit)
Agro 2501—Weed Biology and Systemics (2 cr)
Agro 3203—Environment, Global Food Production, and the Citizen (3 cr)

Agricultural Leadership and Development (6 cr)
AgEE 4221—Rural Leadership Development (3 cr)
AgEE 5361—World Development Problems (3 cr)

Experiential Education (3 cr)
AgEE 3096—Experiential Learning: Production and Business (3 cr)

Agricultural Education and Extension (9 cr)
AgEE 1001—Introduction to Agricultural Education (1 cr)
AgEE 1002—Career Planning for Agricultural Professionals (1 cr)
AgEE 5111—Agricultural Education Methods of Teaching (4 cr)
AgEE 5311—History, Philosophy, and Systems of Agricultural Extension Systems (3 cr)

Human Resource Development/Adult Education (15 cr)
HRD 5105—Strategic Planning in Human Resource Development (3 cr)
HRD 5201—Personnel Training and Development (3 cr)
HRD 5301—Organization Development (3 cr)
Plus (three) elective credits in HRD courses.
AdEd 5102—Perspectives of Adult Learning and Development (3 cr)

B.S. Natural and Managed Environmental Education Specialization

The specialization serves students preparing to teach agriscience, agribusiness, agriculture, horticulture, food systems, agrimechanics, and natural resource management all under the licensure field of agricultural education in public schools at the 5-12 level. In addition, graduates have an emphasis in natural resource management and education and are prepared for work in environmental learning centers.

Admission Requirements—Students may be admitted to this program as freshmen or may transfer into the program any semester. They must maintain an overall GPA of 2.75 and complete the Praxis I: Preprofessional Skills Test (PPST).

Degree Requirements

To complete the degree, students must complete at least 128 credits, including required courses in the major. The specialization requires a broad study in agriculture focused on the natural and managed environmental education areas. Areas of study include environment, land, water, climate, economics, soil, plant science, animal science, and agricultural mechanization. It also includes foundations in education, foundations in agricultural education, and a full student teaching experience.

Required Courses

Students must meet the University’s liberal education requirements. In addition, students must meet the following requirements.

Prerequisites (39-41 cr)

Prerequisite courses may apply toward liberal education requirements—see adviser.

Communications (9-10 cr)
Rhet 1101—Writing to Inform, Convince, and Persuade (4 cr)
Rhet 1223—Oral Presentations in Professional Settings (3 cr)
Rhet 3562—Technical and Professional Writing (3 cr)

Mathematics (3 cr)
Math 1031—College Algebra and Probability (3 cr)

Physical and Biological Science (19-20 cr)
BioC 1012—General Principles of Biochemistry (3 cr)
Biol 1009—General Biology (4 cr)
or Biol 1051—Introduction to Environmental Science (3 cr)
Chem 1011—General Principles of Chemistry (4 cr)
Micro 2022—General Microbiology (2 cr)
or Phys 1101—Fundamental Physics I (4 cr)
ScAg 1501—Biotechnology, People, and the Environment (3 cr)

Social Science (8 cr)
Psy 1001—Introduction to Psychology (4 cr)
HSci 1814—Introduction to History of Science: Ancient Study (4 cr)
or HSci 1815—Introduction to History of Science: Modern Science (4 cr)

Environmental Science (40 cr)

Environmental (8-9 cr)
ES 1011—Issues in Environment (3 cr)
FW 2001—Introduction to Fisheries, Wildlife, and Conservation Biology (3 cr)

Plus 2-3 credits from the following:
EEB 3001—Ecology and Society (3 cr)
FR 2104—Forest Measurement Techniques (3 cr)
FR 3104—Forest Ecology (4 cr)
FR 3251—Role of Renewable Natural Resources in Developing Countries (1 cr)
FW 1002—Wildlife: Ecology, Values, and Human Impact (3 cr)
FW 3003—Wildlife in Agricultural Land (2 cr)

Land, Water, Atmosphere (7 cr)
Soil 2125—Basic Soil Science (4 cr)

Plus 3-4 credits from the following:
NRCS 1201—Conservation of Natural Resources (3 cr)
Soil 1425—The Atmosphere (3 cr)
Soil 3221—Soil Conservation and Land-Use Management (3 cr)
Soil 3416—Plant Nutrients in the Environment (4 cr)

Applied Economics and Agribusiness (3 cr)
ApEc 1101—Principles of Microeconomics (3 cr)
or ApEc 3451—Food and Agricultural Sales (3 cr)

Plant Science (6 cr)
P IPA 3001—Plant Disease Biology and Management (1 cr)
Ent 3001—Insects and Insect Management (1 cr)
Agro 3003—Introduction to Integrated Weed Management (1 cr)

Plus 3-4 credits from the following:
AgroHort 4401—Plant Genetics and Breeding (4 cr)
Agro or Hort (Electives)

Animal Science (6 cr)
AnSc 2401—Animal Nutrition (3 cr)

Plus 3-4 credits from the following:
AnSc 1101—Introductory Animal Science (4 cr)
AnSc 1403—Companion Animal Nutrition and Care (2 cr)
AnSc 1511—Food Animal Products for Consumers (3 cr)
AnSc 2012—Livestock and Carcass Evaluation (3 cr)
AnSc 3203—Environment, Global Food Production, and Citizens (3 cr)

Agricultural Mechanization (6 cr)

Select 6 credits from the following:
AgEE 2051—Current Technical Competencies (3 cr)
AgEE/BIE 3112—Technical Drawing and Production Technologies (3 cr)
AgEE/BIE 3120—Communication, Energy, Power, and Machinery Technology (3 cr)

Food Science (3 cr)
FScN 1102—Food: Safety, Risks, and Technology (3 cr)

Professional Education (40 cr)

Foundations (15 cr)
EdHD 5001—Learning, Cognition, and Assessment in the Schools (3 cr)
EdHD 5003—Developmental and Individual Differences (3 cr)
EdHD 5005—School and Society (2 cr)
EdHD 5007—Technology for Teaching and Learning (1.5 cr)
EdHD 5009—Human Relations (1 cr)
EdPA 5341—The American Middle School (3 cr)
PubH 5003—Fundamentals of Alcohol and Drug Abuse (1.5 cr)

Agricultural Education (15 cr)
AgEE 1001—Introduction to Agricultural Education (1 cr)
AgEE 1002—Career Planning for Agricultural Professionals (1 cr)
AgEE 2096—Professional Practicum: Early Experience (1 cr)
AgEE 5111—Agricultural Education Methods of Teaching (4 cr)
AgEE 5112—Agricultural Education Program Organization and Curriculum for Youth (4 cr)
AgEE 5113—Agricultural Education Adult Program Development and Technology (3 cr)
AgEE 5114—Agricultural Education Seminar (1 cr)
Business and Industry Education

Department of Work, Community, and Family Education

B.S. The undergraduate business and industry education major, offered through the Department of Work, Community, and Family Education, includes two possible focuses: general industrial education (prelicensure in industrial technology education) and vocational and technical education (technical college teaching). Students may take courses meeting requirements for a combination of focuses. This would require taking additional industrial training courses. Graduate study also is available in both focuses.

General Industrial Education Focus (prelicensure)

Students completing the general industrial education (prelicensure in industrial technology education) focus are awarded the B.S. degree, which fulfills prerequisites for entry into the master of education (M.Ed.)/initial licensure program for public school teaching in industrial technology education. Completing the M.Ed./initial licensure program usually results in recommendation for licensure to teach industrial technology education in grades 5-12 in Minnesota public schools.

Required Courses

Industrial Education Pedagogical Studies (19-21 credits)

The BIE pedagogical studies course block includes courses in curriculum, teaching methods, testing, vocational guidance, and working with special needs students, as well as in the history and purposes of business and industry education.

BIE 1301—Introduction to Vocational-Technical Teaching (2 cr)
Teacher Education Sequence—TES is not required of students who have completed the balance of the TES requirements.
BIE 5325—Foundations of Industrial Education (3 cr)
BIE/HRD 5601—Student and Trainee Assessment (3 cr) TES
BIE/HRD 5628—Multimedia Presentations in Business (3 cr)
BIE/HRD 5629—Course Development in Business and Industry (3 cr) TES
BIE/HRD 5661—Instructional Methods for Business and Industry (2 cr)
TES
WCFC 5801—Educating Special Populations in Work, Community, and Family Settings (3 cr)
and BIE 5321—Vocational Guidance in Business and Industry (2 cr)
or BIE 5344—Facilities Management in Business and Industry (3 cr)

Core Courses (44 cr)

Issues, Structures, and Functions of Industry (8 cr)

Courses dealing with issues, structures, and functions of industry; selection must be approved by student’s adviser.

Technology Content (36 cr)

Basic Technology Content (24 cr)

BIE 3111—Exploring Technology Systems (3 cr)
BIE/AgEE 3112—Technical Drawing and Production Technologies (3 cr)
BIE 3113—Manufacturing Technology (3 cr)
BIE 3114—Construction Technology (3 cr)
BIE/AgEE 3121—Communication, Power and Energy, Transportation and Machinery Technologies (3 cr)
BIE 3122—Communication and Information Technology (3 cr)
BIE 3123—Energy, Power, and Transportation and Technologies (3 cr)
BIE 5101—Technological Problem Solving (3 cr)

Advanced Technology Content (12 cr)

BIE 3511—Technical Development: Advanced (1-12 cr)
BIE 5151—Technical Development: Specialized (1-12 cr)

Additional Requirements (9-14 cr)

BIE 1396—Supervised Vocational-Technical Teaching (2 cr) Required only of those students without teaching experience.
BIE 5011—Introduction to Microcomputer Applications (3 cr)
EPsy 5135—Workshop in Human Relations (3 cr)
or EdHD 5003—Developmental and Individual Differences in Educational Contexts (3 cr)
and EdHD 5009—Human Relations: Applied Skills for School and Society (1 cr)
PubH 5023—Basic Concepts of Personal and Community Health (3 cr)
or PubH 3004—Basic Concepts of Personal and Community Health (4 cr)
or PubH 3001—Personal and Community Health (2 cr)
and PubH 3003—Fundamentals of Drug and Alcohol Abuse (2 cr)
or PubH 5022—Personal and Community Health (2 cr)
and PubH 5003—Fundamentals of Drug and Alcohol and Abuse (2 cr)
WCFC 5301—Philosophy and Practice of Vocational Education (3 cr) TES required for industrial education; recommended for business education.

Electives—Selected in consultation with adviser to complete 124 credits.
American Red Cross standard first aid and personal safety certificates must be current at graduation. Requirement may be waived for business education majors; adviser approval is required.

Vocational and Technical Education Focus

The vocational and technical education focus is a professional development degree program for current and prospective technical college instructors and teachers in selected secondary vocational programs. Students completing this focus are awarded the B.S. degree and complete the teacher education sequence and other requirements for Minnesota state occupational teaching licensure. Students should consult state licensing personnel regarding specific vocational licensure requirements for the field in which they wish to teach.

Required Courses

Business and Industry Education Pedagogical Studies (19-21 cr)

The BIE pedagogical studies course block includes courses in curriculum, teaching methods, testing, vocational guidance, and working with special needs students, as well as in the history and purposes of business and industry education.

BIE 1301—Introduction to Vocational-Technical Teaching (2 cr)
Teacher Education Sequence—TES is not required of students who have completed the balance of the TES requirements.
BIE 5325—Foundations of Industrial Education (3 cr)
BIE/HRD 5601—Student and Trainee Assessment (3 cr) TES
BIE/HRD 5628—Multimedia Presentations in Business (3 cr)
BIE/HRD 5629—Course Development in Business and Industry (3 cr) TES
BIE/HRD 5661—Instructional Methods for Business and Industry (2 cr)

Advanced Technology Content (12 cr)

BIE 3511—Technical Development: Advanced (1-12 cr)
BIE 5151—Technical Development: Specialized (1-12 cr)

Additional Requirements (9-14 cr)

BIE 1396—Supervised Vocational-Technical Teaching (2 cr) Required only of those students without teaching experience.
BIE 5011—Introduction to Microcomputer Applications (3 cr)
EPsy 5135—Workshop in Human Relations (3 cr)
or EdHD 5003—Developmental and Individual Differences in Educational Contexts (3 cr)
and EdHD 5009—Human Relations: Applied Skills for School and Society (1 cr)
PubH 5023—Basic Concepts of Personal and Community Health (3 cr)
or PubH 3004—Basic Concepts of Personal and Community Health (4 cr)
or PubH 3001—Personal and Community Health (2 cr)
and PubH 3003—Fundamentals of Drug and Alcohol Abuse (2 cr)
or PubH 5022—Personal and Community Health (2 cr)
and PubH 5003—Fundamentals of Drug and Alcohol and Abuse (2 cr)
WCFC 5301—Philosophy and Practice of Vocational Education (3 cr) TES required for industrial education; recommended for business education.

Electives—Selected in consultation with adviser to complete 124 credits.
American Red Cross standard first aid and personal safety certificates must be current at graduation. Requirement may be waived for business education majors; adviser approval is required.
Core Courses (44 cr)

Issues, Structures, and Functions of Business and Industry (8 cr)
Courses dealing with issues, structures, and functions of business and industry; selection must be approved by adviser.

WCFE 3011/5011—Technology and Public Ethics (3 cr)

Work experience in business or industry or vocational-technical specialization courses (30 cr)
30 credits, at least 10 of which must be earned through BIE 5596 or verified work experiences.
BIE 3151—Technical Development: Advanced (1-12 cr)
BIE 5151—Technical Development: Specialized (1-12 cr)
BIE 5596—Occupational Experience in Business and Industry (1-5 cr/ max 10 cr)
or verified work experience in business or industry (30 cr max)

Technical/Occupational Development in Business or Industry (6 cr)
BIE 3151—Technical Development: Advanced (1-12 cr)
BIE 5012—Advanced Word Processing Practicum (3 cr)
BIE 5013—Spreadsheet Analysis Using Microcomputers (3 cr)
BIE 5014—Database Microcomputer Applications (3 cr)
BIE 5015—Integrated Microcomputer Applications in BIE (3 cr)
BIE 5151—Technical Development: Specialized (1-12 cr)
BIE 5596—Occupational Experience in Business and Industry (1-5 cr/ max 10 cr)
BIE/HRD 5628—Multimedia Presentations in Business (3 cr)

Additional Requirements (12-17 cr)
AdEd 5101—Strategies for Teaching Adults (3 cr)
BIE 3196—Supervised Vocational-Technical Teaching (2 cr) (required only of those students without teaching experience)
BIE 5011—Introduction to Microcomputer Applications in BIE (3 cr)
EPsy 5135—Workshop in Human Relations (3 cr)
or
EdHD 5003—Developmental and Individual Differences in Educational Contexts (3 cr)

and EdHD 5009—Human Relations: Applied Skills for School and Society (1 cr)
PubH 5023—Basic Concepts of Personal and Community Health (3 cr)
or
PubH 3004—Basic Concepts of Personal and Community Health (4 cr)
or
PubH 3001—Personal and Community Health (2 cr)
and PubH 3003—Fundamentals of Drug and Alcohol Abuse (2 cr)
or
PubH 5022—Personal and Community Health (2 cr)
and PubH 5003—Fundamentals of Drug and Alcohol Abuse (2 cr)
WCFE 5301—Philosophy and Practice of Vocational Education (3 cr)
Teacher education sequence, required for initial state vocational licensure, required for industrial education (recommended for business education).

Electives—selected in consultation with adviser to complete 124 credits.
American Red Cross standard first aid and personal safety certificates must be current at graduation. Requirement may be waived for business education majors with adviser approval.

Coaching

School of Kinesiology and Leisure Studies

Minor Only
The coaching minor provides University students with the opportunity to receive in-depth background into the theoretical and practical nature of coaching through a planned and integrated series of courses. Completion of the coaching minor also will qualify the student for the University of Minnesota Coaching Certificate.

Admission Requirements—Admission is open to all University students.

Program Completion Requirements (29 cr)
A 2.50 GPA in courses submitted for completion of the coaching minor is required for the minor to be awarded.

Required Courses
Kin 3111—Human Anatomy (2 cr)
or
CBN 1027—Anatomy for Kinesiology Students (3 cr)
Kin 3113—First Responder for Coaches and Athletic Trainers (3 cr)
or
current American Red Cross Standard First Aid and CPR cards
Kin 3114—Prevention and Care of Athletic Injuries (3 cr)
Kin 3133—Motor Control, Learning, and Development (3 cr)
Kin 5143—Organization and Management of Sport (3 cr)
or
Kin 5725—Organization and Management of Physical Education and Sport (3 cr)
Kin 5697—Student Teaching: Coaching (3 cr)
Two courses from Kin 5136, Kin 5126, Kin 3112, Kin 4385, SpSt 3621,
SpSt 3641
Two courses from Kin 3168, Kin 3169, Kin 3171, Kin 3172, Kin 3173,
Kin 3174, Kin 3175, Kin 3176, Kin 3177, Kin 3178, Kin 3179,
Kin 3181, Kin 5720

Electives—Any course for which a student has appropriate prerequisites and that has been approved by the adviser relative to programmatic focus can be used toward this minor.

Final Project
Kin 5697—Student Teaching: Coaching consists of two parts. The first is a supervised coaching experience with a professional in the field (student coaching practicum covering a specific sport season from beginning to end). The second involves a written integrative paper delving into such topics as a personal coaching philosophy, the role of coaching in society, and the identification and solution of various issues/challenges in coaching.
Foundations of Education

Department of Curriculum and Instruction
B.S.

CEHD admits upper division (typically junior status) students to an undergraduate program that serves as preparation for the M.Ed./initial licensure program in elementary education. The curriculum includes an extensive core of liberal education courses central to elementary school teaching. The major coursework provides a foundation for working with children in a school setting and emphasizes the multicultural nature and special needs of an urban environment.

Students who complete this program receive a B.S. degree with a major in foundations of education. Students may move into the initial licensure program in elementary education if they meet the minimum entrance criteria for the M.Ed. degree (contact SPS, 612/625-6501). Licensure requirements can be completed with a designated cohort with additional coursework and clinical experience. This program also prepares graduates to move into nonlicensure or other settings in which a strong liberal education is useful.

Admission Requirements—Completion of 60 credits in specified courses (contact SPS), a 2.50 overall GPA (higher recommended), education-related experience with grades 1 through 6, experience with diverse populations.

Degree Requirements
To complete the degree, students must complete at least 126 credits, including 35 credits in the major.

Required Courses

Prerequisites
CI 1001—Introduction to the Elementary School (3 cr)
Psy 1001—Introduction to Psychology (4 cr)

Introductory Block
CI 5111—Introduction to Elementary School Teaching (3 cr)
CI 5183—Applying Instructional Methods in the Classroom (1 cr)
EdHD 5001—Learning, Cognition, and Assessment in the Schools (3 cr)

Special Education Core
CI 5183—Applying Instructional Methods in the Classroom (1 cr)
EpSy 5613—Foundations of Special Education I (3 cr)
EpSy 5614—Foundations of Special Education II (3 cr)
EpSy 5616—Behavior Analysis and Classroom Management (3 cr)

Courses for Junior and Senior Year
EdHD 5003—Developmental and Individual Differences (3 cr)
EdHD 5005—School and Society (2 cr)
EdHD 5007—Technology for Teaching and Learning (1.5 cr)
EdHD 5009—Human Relations (1 cr)
PubH 5003—Fundamentals of Alcohol and Drug Abuse (1.5 cr)
or PubH 3003—Fundamentals of Alcohol and Drug Abuse (2 cr)

Human Resource Development

Department of Work, Community, and Family Education
B.S.

Undergraduate students prepare for entry-level employment in training and development and develop the foundation for advanced work in the fields of human resource development or human resources and industrial relations. All students also select a programmatic or thematic supporting program, usually from the fields of human resources and industrial relations, speech communications, and rhetoric, though there are no restrictions on what this supporting program might be.

The program core requires all students to develop a baseline understanding of training and development, organization development, and adult education. With an international reputation for excellence, the program also supports the Human Resource Development Research Center and an outstanding student organization providing additional opportunities for students' professional development.

Admission Requirements—Undergraduate GPA of 2.80. If students have a GPA between 2.50 and 2.80, they may be admitted upon completing HRD 5001—Survey: Human Resource Development and Adult Education; HRD 5201—Personnel Training and Development; and HRD 5301—Organization Development, with a GPA of 3.00.

Degree Requirements
To complete the degree, students must complete at least 120 credits, including at least 40 credits in the major. All human resource development students must complete a core of 21 credits consisting of courses in training and development, organization development, and adult education. Students also must complete an internship. Students also must complete the University's liberal education requirements, including some specified courses within those requirements (contact SPS). An overall GPA of 2.80 is required for graduation.

Required Courses

General Courses
One lower division writing course
One upper division writing course
One speech performance course
One microeconomics or macroeconomics course
Psy 1001—Introduction to Psychology (4 cr)
One college-level math course

Human Resource Development (21 cr min)
HRD 5001—Survey: Human Resource Development and Adult Education (3 cr)
HRD 5201—Personnel Training and Development (3 cr)
HRD 5301—Organization Development (3 cr)
BIE 5611—Instructional Methods in Business and Industry (2 cr)
or AdEd 5101—Strategies for Teaching Adults (3 cr)
HRD 5196—Internship: HRD (4 cr)

Students may take up to an additional 6 credits if those credits are not used to meet the minimum of 21 credits required by HRD)

Additional courses, to meet the 21 credit total, are to be selected from remaining HRD courses and may include:
WCFE 5121—Principles of Supervisory Management (3 cr)
FE 5201—Education for Work-Family Relationships (3 cr)

Required Related Coursework
WCFE 3010/5010—Technology and Public Ethics (3 cr)
BIE 5010—Introduction to Microcomputer Applications (3 cr)
Supporting program (13 credits minimum)
Program electives to complete the 120 credit requirement for the B.S.

Electives—A significant number of elective credits is usually available. These may be selected in consultation with the student's adviser.

Final Project
Students must complete 4 credits of internship.
Kinesiology

School of Kinesiology and Leisure Studies
B.S.
The bachelor of science program in kinesiology prepares individuals for roles in sports/health clubs or corporate fitness/exercise centers or serves as background for exercise rehabilitation, exercise physiology, biomechanics, social psychology of sport, motor behavior, ergonomics, human factors, and other human performance contexts. Kinesiology is an appropriate major for students seeking careers in the allied health sciences, such as athletic training, physical and occupational therapy, medicine, and nursing. It can be used as preparation for the M.Ed./initial licensure program in physical education listed under M.Ed. in applied kinesiology.

The curriculum includes two years of liberal education; a core of basic and applied sciences; physical activity skills; courses in kinesiology’s major subdisciplines; and practicum experience in various sport, exercise, educational, or public service/workplace settings.

Emphasis areas in the kinesiology major include athletic training, exercise science/exercise physiology, fitness-wellness/corporate fitness, pre-physical education teaching, pre-physical therapy or pre-occupational therapy, sport psychology, sport sociology, and human factors/ergonomics.

Additional offerings in kinesiology include a coaching certificate, a coaching minor, and a sport management certificate.

Admission Requirements—Admission is based on the following:

- A 2.50 overall GPA
- Completion of at least 45 credits, including the following courses that partially fulfill the University’s liberal education requirements for graduation:
  - One 3-credit speech performance course
  - One statistics course
  - One course each in biology and chemistry (both with labs)
  - Psy 1001—Introduction to Psychology (4 cr) (grade of C or higher recommended)
  - CBN 1027—Anatomy for Kinesiology Students (3 cr) or equivalent
  - Kin 1871—Introduction to Kinesiology (2 cr)
  - Five physical activity courses (1 cr each) chosen from at least four of the following categories: aquatics, conditioning and weight training, dance, individual and dual sports/activities, team sports/activities

Degree Requirements
Students completing this program with a total of 120 credits, including 54 credits in the major, and a 2.50 GPA both overall and in major courses receive the B.S. degree in kinesiology. Courses are listed in the Class Schedule under kinesiology and numbered above 1800. Students must complete the University’s liberal education requirement.

Required Courses
CBN 1027—Anatomy for Kinesiology Students (3 cr)
Kin 1871—Introduction to Kinesiology (2 cr) (pre-admission course)
Kin 3112—Biomechanical and Task Analysis (3 cr)
Kin 3126—Psychology and Sociology of Sport (3 cr)
Kin 3131—History and Philosophy of Sport (3 cr)
Kin 3133—Motor Control, Learning, and Development (3 cr)

Kin 3151—Measurement, Evaluation, and Research in Kinesiology (3 cr)
Kin 3385—Human Physiology for Kinesiology Students (3 cr)
Kin 4385—Exercise Physiology (3 cr)

Electives
21–28 credits (8–9 credits must be Kin 3xxx/5xxx courses)

Special Requirements
PubH 3004—Basic Concepts in Personal and Community Health (4 cr)
or
PubH 3001—Personal and Community Health (2 cr)
and
PubH 3003—Fundamentals of Alcohol and Drug Abuse (2 cr)
One advanced writing course (3 cr or more)
First Aid and CPR Certification at time of graduation

Final Project
All upper division students are required to complete 10 credits in practical experiences, coaching, or directed study in their selected area of focus. Students select a total of 10 credits from a combination of:

- Kin 3993—Directed Study in Kinesiology (1-4 cr)
- Kin 3696—Supervised Practical Experience (1-10 cr)
- Kin 5697—Student Teaching: Coaching (3 cr minimum)

Recreation, Park, and Leisure Studies

School of Kinesiology and Leisure Studies
B.S.
The undergraduate program in recreation, park, and leisure studies prepares students to assume leadership, supervisory, or beginning administrative responsibilities in various park, recreation, and leisure service agencies and for therapeutic recreation certification and practice.

The program also prepares students for graduate study in outdoor recreation/education, park and recreation administration, sport management, and therapeutic recreation. Many students couple recreation, park, and leisure studies with course work in other disciplines, such as management, social work, physical and occupational therapy, forestry, creative arts, human growth and development, special education, and psychology.

Students pursuing a B.S. degree in recreation, park, and leisure studies may choose one of two options.

- leisure services management emphasis areas include commercial recreation, outdoor recreation/education, or public parks and recreation
- therapeutic recreation emphasis areas include community-based or clinical-based recreation.

Admission Requirements—Completion of a minimum of 30 semester credits of the University’s liberal education requirements, including the writing skills requirement; a 2.00 minimum overall GPA, with preference given to applicants with a higher average; relevant education- or career-related experience, paid or volunteer.

Degree Requirements
Students completing this curriculum with a total of 128 credits, including 78 credits in the major, and a minimum 2.50 GPA in Rec-designated courses receive the B.S. degree in recreation, park, and leisure studies. A minor is not required of majors in this program. Certain emphasis areas require specific courses to meet curriculum requirements; consult the School of Kinesiology and Leisure Studies (612/625-5300). A preliminary program of coursework should be filed during the second quarter after admission.
Students must complete the University’s liberal education requirements; appropriate related and major courses may be applied toward these requirements.

**Required Courses**

- Psy 1001—Introduction to Psychology (4 cr)
- PubH 3003—Fundamentals of Alcohol and Drug Abuse (2 cr)
- Rec 1501—Orientation to Leisure and Recreation (3 cr)
- Rec 3281—Research and Evaluation in Recreation, Park, and Leisure Studies (4 cr)
- Rec 3541—Recreation Programming (3 cr)
- Rec 3551—Administration and Finance of Leisure Services (4 cr)
- Rec 3601—Leisure and Human Development (3 cr)
- Rec 5271—Community Leisure Services for Persons with Disabilities (3 cr)
- Rec 3796—Senior Internship in Recreation, Park, and Leisure Studies (15 cr)

13 credits in recreation courses related to an emphasis area, selected in consultation with a major adviser.

24 credits related to the selected emphasis area (no more than three 1xxx courses), selected in consultation with an appropriate academic adviser. To become professionally certified as a certified therapeutic recreation specialist, certain specific courses also are required in the therapeutic recreation option, including abnormal psychology, anatomy and physiology.

**Electives—** Any course for which a student has appropriate prerequisites and has been approved by the adviser relative to programmatic focus can be used toward this degree.

**Final Project**

After meeting eligibility requirements, students complete an intensive 15-credit senior internship (Rec 3796). Students should see their adviser and the internship coordinator no later than the early part of the semester preceding registration for Rec 3796. An internship manual may be obtained from the division office or from the internship coordinator.

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**Degree Requirements**

The sport studies program totals 120 credits, including 48 credits of liberal education requirements, 16 credits of college and curriculum requirements, 25 credits of required major courses, 20 credits of focused electives, and elective courses to satisfy the 120 credit graduation requirement.

A GPA of 2.50 in courses with a SpSt designator is required to graduate.

**Required Courses**

**Major Courses (25 cr)**

- SpSt 1701—Introduction to Sport Studies (2 cr)
- SpSt/Kin 3143—Organization and Management of Sport (3 cr)
- SpSt 3501—Gender and Diversity in Sport (2 cr)
- SpSt 3511—Sport Psychology (2 cr)
- SpSt 3501—Sport Psychology (2 cr)
- SpSt 3601—Sports Ethics (2 cr)
- SpSt 3501—Sport Psychology (2 cr)
- SpSt 3501—Sport Psychology (2 cr)
- SpSt 3501—Sport Psychology (2 cr)
- SpSt 3501—Sport Psychology (2 cr)
- SpSt 3501—Sport Psychology (2 cr)

**College and Curriculum Requirements (16 cr min)**

Education and human development electives (not including Kin, Rec, or SpSt courses) (6 cr)

- PubH 3004—Basic Concepts: Personal and Community Health (4 cr)
- PubH 3001—Personal and Community Health (3 cr)
- PubH 3003—Fundamentals of Alcohol and Drug Abuse (2 cr)

Physical education activity courses (3 courses, 1 cr each)

- Spch 1101—Introduction to Public Speaking (3 cr)
- GC 1461—Oral Communication in the Public Sphere (3 cr)
- Rhet 1223—Oral Presentations in Professional Settings (3 cr)

**Focused Elective (20 cr min)**

In consultation with the sport studies major adviser, each student selects a minimum of 20 credits from one of the following three sets of focused electives as listed below:

- Coaching
- Pre-sport management
- Youth service/development

Other courses may be included with the adviser’s approval.

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**Sport Studies**

**School of Kinesiology and Leisure Studies**

The sport studies major focuses on contemporary sport as a product of social, psychological, and economic phenomena. Because of its predominant role in our culture, economy, and societal behavior, sport is a fertile subject for academic inquiry. While open to all who meet the admission requirements, the sport studies major addresses in part the need of those students who have a primary interest in sport as an activity that has been and continues to be a major force in their lives. Graduates may find employment in sport or other fitness-related occupations. The program also prepares students for graduate study in sport management and kinesiology.

Coursework in sport studies addresses such topics as ethics and sport, psychology of sport performance, sport as a sociocultural phenomenon, lifetime fitness and health, sport history and philosophy, sport facilities and equipment, sport promotion, sport officiating, sport injuries, and business of sport.

Features of the program include an 8 credit experiential course, a senior seminar, and a set of focused electives. Each student selects electives from one of the following three topics: coaching, pre-sport management, or youth services/development.

**Admission Requirements**

- Completion of 40 semester credits of liberal education requirements; completion of 50 semester credits of prerequisite courses (contact SPS); and a 2.00 overall GPA before the April 15 admission deadline.