This is the College of Education and Human Development section of the 2006-2008 Undergraduate Catalog for the University of Minnesota.
In July 2006, the College of Education and Human Development (CEHD) begins a second century of teaching, research, and service for students and the citizens of Minnesota. It marks this milestone with dramatic changes as the Department of Family Social Science, the School of Social Work, and General College (now the Department of Postsecondary Teaching and Learning) come together with programs in the College of Education and Human Development to create a dynamic new college.

The new CEHD offers a unique blend of academic excellence and applied knowledge, allowing students to learn from faculty members conducting research on a wide spectrum of topics from early childhood development, to fitness and wellness, to family structures to human resource development to learning across the life span. Most programs require students to apply classroom and textbook knowledge to “real-world” situations of student teaching or internships.

CEHD’s mission is to generate and apply knowledge about teaching, learning, and human development and to improve education for all individuals. The college prepares students to meet the challenges of teaching and leading in increasingly culturally diverse classrooms, schools, and society. Strongly committed to diversity, the college offers several financial and mentoring programs to support students of underrepresented populations. Because community outreach also plays an important role in its mission, the college has developed an extensive network of community ties allowing transfer of classroom and research knowledge to practice in schools and the workplace, and the incorporation of community viewpoints into the college’s teaching and research missions.

The college includes the following:

- Institute of Child Development (ICD)
- Curriculum & Instruction (CI)
- Educational Policy and Administration (EdPA)
- Educational Psychology (EdPsych)
- Family Social Science (FSoS)
- Postsecondary Teaching and Learning (PSTL)
- School of Kinesiology (Kin)
- School of Social Work (SSW)
- Work and Human Resource Education (WHRE)

### Admission

Application policies and deadlines vary by program. Policies are subject to change. For current information, contact the following offices:

**Freshman students**

University of Minnesota Admissions Office
612-625-2008
www.admissions.tc.umn.edu

### Transfer students

Students transferring to CEHD from schools outside the University of Minnesota:

University of Minnesota Admissions Office
612-625-2008
www.admissions.tc.umn.edu

Students transferring to CEHD from other University of Minnesota colleges (e.g., CLA, IT):

CEHD Student & Professional Services (SPS)
612-625-3339
spsinfo@umn.edu
www.education.umn.edu

For information about individual academic programs, contact the department offering the program.

### Orientation

The Office of Orientation and First-Year Programs is responsible for new student orientation programs for freshman and transfer students. The campus-wide program serves as the official welcome to the University of Minnesota. The program, planned with the college, introduces students to the opportunities and resources at the University. Information is sent to all students after admission to the University. Orientation programs are held throughout the summer and just prior to the beginning of each semester.

For more information, contact:

**CEHD office of Student & Professional Services (SPS)**
612-625-3339
spsinfo@umn.edu
www.education.umn.edu/sp

**University of Minnesota Orientation and First-Year Programs**
612-624-1979, 1-800-234-1979
ofyp@umn.edu
www.ofyp.umn.edu

### Programs of Study

CEHD offers undergraduate and advanced study in a wide range of teaching and human development fields. Some programs prepare graduates for careers in business, government, and community settings, while others prepare students for preK-12 teaching licensure by the state of Minnesota.

In fall 2006, the college will admit freshman students to two areas, family social science and general studies.

- Family social science, formerly offered in the College of Human Ecology (CHE), is a multidisciplinary major for careers related to helping people, counseling, and understanding human relationships. Graduates are prepared to work with individuals, families, or in human service systems.
Some undergraduate programs in the following list offer a direct path to licensure (e.g., technology education). Others require further study in related master of education (M.Ed.)/initial licensure programs.

- agricultural education
- business and marketing education
- career and technical education
- foundations of education: early childhood education
- foundations of education: elementary
- kinesiology (pre-physical education)
- music education—See College of Liberal Arts (CLA) section
- technology education

For more information, contact a program adviser at Student and Professional Services, 612-625-6501, or spsinfo@umn.edu.

Minors

Several undergraduate minors are available. Minors offer shorter, concentrated areas of study, usually totaling 15-20 credits.

- coaching
- family violence prevention
- family social science
- leadership
- social justice
- youth studies

Honors

The college currently offers honors programs for students in family social science and kinesiology programs. The family social science lower division honors program offers freshmen and sophomores an opportunity to form close relationships; to explore new ideas; and to share their ideas, interests, and academic lives on a daily basis. Students develop these relationships by participating in honors classes and by living in honors housing in residence halls on campus. Lower division honors students complete three honors learning experiences.

The upper division honors program offers juniors and seniors additional opportunities to achieve their academic and professional goals. Upper division students complete two honors learning experiences and carry out a capstone project, an in-depth exploration of a topic specifically related to their major. Students successfully completing the upper division honors program are eligible to graduate with Latin honors (cum laude, magna cum laude, or summa cum laude).

For more information, students should contact the family social sciences adviser, 290 McNeal Hall, St. Paul, or SPS, 110 Wulling Hall, Minneapolis.

The undergraduate kinesiology honors program offers rigorous academics and unique research opportunities. Participants graduate with one of the traditional honors designations: cum laude, magna cum laude, or summa cum laude. The honors program emphasizes directed research in the physical activities sciences, with students completing research that warrants publication in a professional journal. Program requirements include a kinesiology honors seminar (two semesters) and an undergraduate research symposium.
Students may apply to the honors program at the same time they apply for admission to the undergraduate kinesiology program. For more information, contact the School of Kinesiology, 612-625-5300, or visit the School of Kinesiology Web site at www.education.umn.edu/Kin.

Policies and Procedures
Students are responsible for complying with all University of Minnesota policies and CEHD and academic program requirements. See the “Policies” section of this catalog.

Graduation Requirements
Students are responsible for complying with all University of Minnesota policies and CEHD and academic program requirements. See the “Policies” section of this catalog and “Degree Program” section in the following text.

Teaching Licensure
To teach in a public school classroom, students must be licensed by the state. Several CEHD teacher licensure programs are offered at the undergraduate level: agricultural education; career and technical education; music education; and technology education. Other CEHD initial licensure programs are offered at the master’s level; students must first complete an undergraduate degree with appropriate prerequisites.

The college offers initial licensure programs in adult basic education, agricultural education, art education, business and marketing education, early childhood education and early childhood special education, elementary education, English education, family education, industrial education (technology education), mathematics education, physical education, science education, second languages and cultures education (including English as a second language), social studies education, and special education. These licensure programs reflect the most current thinking and research in the field, with strong clinical experiences and special attention to multicultural education. CEHD licensure programs are approved by the Minnesota Board of Teaching and accredited by the National Council for the Accreditation of Teacher Education (NCATE).

Teaching licenses are awarded by the Minnesota Board of Teaching; CEHD is responsible for recommending eligible candidates to the state. The CEHD recommendation for licensure is based on successful completion of coursework that includes a standards-based curriculum, favorable faculty judgment regarding teaching competence, and meeting minimum standards on state-required examinations.

Minnesota state law and a Minnesota Board of Teaching regulation require teacher licensure candidates to meet specific competencies. This requirement is met through a combination of required and elective coursework at the graduate level. Candidates also must pass the Praxis Series tests, which assess basic skills of reading, writing, and mathematics; content knowledge; and pedagogy and teaching methods. Minnesota state law also requires all initial licensure applicants to be fingerprinted and pass criminal background checks.

Scholarships
Students are encouraged to apply for scholarships to further their studies; most awards are made on an annual basis. In addition to financial aid offered by the University, the college administers several scholarship programs of its own. Find out more about available scholarships, application materials and instructions at SPS, 110 Wulling Hall (612-625-6501; e-mail: spsinfo@umn.edu) or online at www.education.umn.edu or www.onestop.umn.edu.

Student Organizations
The college offers several undergraduate student groups, including:

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).

Family Social Science Roundtable was established to create a sense of identity within the Department of Family Social Science, provide networking opportunities, promote healthy relationships, provide hands-on experience in community service and involvement, and encourage socialization with peers and faculty. For more information, contact William Goodman, 612-625-1282, e-mail: wgoodman@umn.edu.

The Agricultural Education Club offers civic and social leadership activities and is open to all students interested in the field. The group promotes professional roles in agricultural education, and strengthens relationships with state and national FFA organizations (Future Farmers of America).
Directory

Administrative Offices

CEHD Dean’s Office
104 Burton Hall, Minneapolis
612-626-9252

Departments

Curriculum and Instruction
145 Peik Hall, Minneapolis
612-625-4006
Chair: Ruth Thomas

Educational Policy and Administration
330 Wulling Hall, Minneapolis
612-624-1006
Chair: R. Michael Paige

Educational Psychology
204 Burton Hall, Minneapolis
612-624-6083
Chair: John Romano

Department of Family Social Science
290 McNeal Hall, St. Paul
612-625-1900
Department head: B. Jan McCulloch

Department of Postsecondary Teaching and Learning
240 Appleby Hall, Minneapolis
612-625-2880
Chair: Heidi Barajas

Institute of Child Development
180 Child Development Building, Minneapolis
612-624-0526
Director: Nicki Crick

School of Kinesiology
111 Cooke Hall, Minneapolis
612-625-5300
Director: Mary Jo Kane

School of Social Work
105 Peters Hall, St. Paul
612-625-1220
Director: Jean K. Quam

Work and Human Resource Education (WHRE)
210A Vocational and Technical Education Building, St. Paul
612-625-3757
Chair: Kenneth Bartlett
Agricultural Education B.S.

Requirements for this program are current for Fall 2006.
Required credits to graduate with this degree: 120 to 128.
This program requires summer terms.
Degree: Bachelor of Science

The undergraduate agricultural education program is a collaborative partnership between the College of Education and Human Development and College of Food, Agricultural and Natural Resource Sciences (CFANS). Three specializations are available. The agricultural science and technology education specialization and natural and managed environmental education specialization prepare students for Minnesota state teaching licensure. The agricultural leadership, training, and development specialization prepares students for agricultural industry and leadership careers, focusing on development of interpersonal skills. It does not lead to teaching licensure.

Admission Requirements
Students must complete 60 credits before admission to the program.
A GPA above 2.00 is preferred for the following:
- 2.50 for students already admitted to the degree-granting college.
- 2.50 for students transferring from another University of Minnesota college.
- 2.50 for students transferring from outside the University.
Minimum GPAs are preferred for the following specializations:
- 2.50 for agricultural science and technology education or natural and managed environmental education
- 2.00 for agricultural leadership training and development
For information about University of Minnesota admission requirements, visit the Office of Admissions Web site at http://admissions.tc.umn.edu.

General Requirements
Recommended freshman writing course(s) for this program: RHET 1101

Required Courses

Communications
RHET 3562W - Technical and Professional Writing, WI (4.0 cr)
PSTL 1461 - Oral Communication in the Public Sphere, C/PE (3.0 cr)
or RHET 1223 - Oral Presentations in Professional Settings (3.0 cr)

Social Sciences
PSTL 1281 - General Psychology, SSCI (4.0 cr)
or PSY 1001 - Introduction to Psychology, SSCI (4.0 cr)

Program Sub-plans
Students are required to complete one of the following sub-plans.

Agricultural Leadership, Training, and Development
This specialization provides a unique, futuristic educational opportunity combining agricultural science, management, communication, leadership, education, business and industry, training, and development. It provides a general background in agriculture, with agribusiness and industry associations. Graduates have opportunities and flexibility in employment ranging from human resource development, sales and marketing, extension, and communications in statewide, national, and international situations. This specialization does not lead to teaching licensure.

Business experience is required along with completion of courses. Students must maintain an overall GPA of 2.00.

Required Courses

Physical and Biological Sciences
AGRI 1501 - Biotechnology, People, and the Environment, ENVT (3.0 cr)
AGRO 1101 - Biology of Plant Food Systems, BIOL SCI/L, ENVT (4.0 cr)
or BIOL 1009 - General Biology, BIOL SCI/L (4.0 cr)

Plant Science
Take 6 or more credit(s) from the following:
AGRO 1103 - Crops, Environment, and Society, ENVT (3.0 cr)
AGRO 2501 - Plant Identification for Urban and Rural Landscapes (2.0 cr)
AGRO 4005 - Applied Crop Physiology and Development (4.0 cr)
ANSC 3203W - Environment, Global Food Production, and the Citizen, C/PE, ENVT, WI (3.0 cr)
HORT 1001 - Plant Propagation, BIOL SCI/L (4.0 cr)
HORT 3005 - Environmental Effects on Horticultural Crops (2.0 cr)

Animal Science
ANSC 1101 - Introductory Animal Science (4.0 cr)
ANSC 1403 - Companion Animal Nutrition and Care (3.0 cr)
or ANSC 2401 - Animal Nutrition (3.0 cr)
Take 3 or more credit(s) from the following:
ANSC 1511 - Food Animal Products for Consumers (3.0 cr)
ANSC 2012 - Livestock and Carcass Evaluation (3.0 cr)
ANSC 3203W - Environment, Global Food Production, and the Citizen, C/PE, ENVT, WI (3.0 cr)
Soils
SOIL 1125 - The Soil Resource, ENVT, PHYS SCI/L (4.0 cr)
or SOIL 2125 - Basic Soil Science, ENVT (4.0 cr)

Applied Economics and Agribusiness
APEC 1101 - Principles of Microeconomics, SSCI (3.0 cr)
APEC 1251 - Principles of Accounting (3.0 cr)
APEC 3451 - Food and Agricultural Sales (3.0 cr)
or BIE 3061 - Professional Sales Management (3.0 cr)

Agricultural Leadership and Development
AFEE 2221 - People Skills for Leadership (3.0 cr)
AFEE 3221 - Presentations and Meeting Management for Agricultural Industry (3.0 cr)
AFEE 4221 - Rural Leadership Development, C/PE (3.0 cr)
AFEE 5361 - World Development Problems (3.0 cr)

Experiential Education
AFEE 2096 - Professional Practicum in Agricultural Education: Early Experience (1.0-3.0 cr)
AFEE 3096 - Experiential Learning: Production and Business (1.0-8.0 cr)

Human Resource Development
HRD 3001 - Introduction to Human Resource Development (3.0 cr)
HRD 3201 - Introduction to Training and Development (3.0 cr)

Human Resource Development/AFEE Electives
Students who complete the HRD focus (described below) must fulfill this 6 credit HRD/AFEE requirement by choosing courses from the AFEE, BIE, and WHRE designators.

Take 6 or more credit(s) from the following:
AFEE 5331 - History, Philosophy, and Systems of Extension (3.0 cr)
BIE 3061 - Professional Sales Management (3.0 cr)
WHRE 3105 - Introduction to Strategic Planning Through Human Resources (3.0 cr)
HRD 3301 - Introduction to Organization Development (3.0 cr)
HRD 5106 - Evaluation in Human Resource Development (3.0 cr)
HRD 5202 - Training on the Internet (3.0 cr)
HRD 5302 - Managing Work Teams in Business and Industry (3.0 cr)
HRD 5624 - Sales Training (3.0 cr)
WHRE 5121 - Principles of Supervisory Management (3.0 cr)

Agricultural Leadership, Training, and Development Focus
Students are required to complete one of the following course groups.

Agricultural Science
Take 10 or more credit(s) from the following:
AGRO 2501 - Plant Identification for Urban and Rural Landscapes (2.0 cr)
AGRO 3203W - Environment, Global Food Production, and the Citizen, C/PE, ENVT, WI (3.0 cr)
AGRO 4005 - Applied Crop Physiology and Development (4.0 cr)
ANSC 1511 - Food Animal Products for Consumers (3.0 cr)
ANSC 2012 - Livestock and Carcass Evaluation (3.0 cr)
ANSC 2211 - Biometrics for Livestock, MATH (3.0 cr)
ANSC 3301 - Systemic Physiology (4.0 cr)
FSCN 1102 - Food: Safety, Risks, and Technology, C/PE (3.0 cr)
PLPA 3002 - Air Pollution, People, and Plants: The Science and the Ethics, C/PE, ENVT (3.0 cr)

Agricultural Business and Management
Take 10 or more credit(s) from the following:
APEC 3041W - Economic Development of U.S. Agriculture, HP, WI (3.0 cr)
APEC 3411 - Commodity Marketing (3.0 cr)
APEC 3811 - Principles of Farm Management (3.0 cr)

Communication
Take 10 or more credit(s) from the following:
RHET 1152W - Writing on Issues of Science and Technology, C/PE, WI (4.0 cr)
RHET 3221W - Theories of Human Communication, C/PE, SSCL, WI (4.0 cr)
RHET 3257 - Scientific and Technical Presentations (3.0 cr)
RHET 3266 - Group Process, Team Building, and Leadership, C/PE (3.0 cr)
RHET 3401 - Internet Communication: Tools and Issues (3.0 cr)

Human Resource Development
Take 10 or more credit(s) from the following:
WHRE 3105 - Introduction to Strategic Planning Through Human Resources (3.0 cr)
HRD 3301 - Introduction to Organization Development (3.0 cr)
HRD 5106 - Evaluation in Human Resource Development (3.0 cr)
HRD 5202 - Training on the Internet (3.0 cr)
HRD 5302 - Managing Work Teams in Business and Industry (3.0 cr)
HRD 5624 - Sales Training (3.0 cr)

Agricultural Science and Technology Education
This specialization serves students preparing to teach agiscience, 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. Its broad agricultural science and technology curriculum also prepares graduates for a wide range of agriculturally related positions in sales, management, finance, and production aspects of agriculture.

Students may graduate from this program with a minimum 2.00 overall GPA, but a minimum 2.50 overall GPA is required for recommendation for Minnesota teaching licensure. Major coursework (courses with AFEE, BIE, EDHD, HRD, and WHRE designators) must be completed with a minimum 2.00 GPA with no grade lower than C-. A minimum grade of C- is also required for general psychology.

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-year student teaching experience.

Required Courses
Physical and Biological Sciences
AGRI 1501 - Biotechnology, People, and the Environment, ENVT (3.0 cr)
or PSTL 1163 - Physical Systems: Principles and Practices, PHYS SCI/L (4.0 cr)
AGRO 1101 - Biology of Plant Food Systems, BIOL SCI/L, ENVT (4.0 cr)
or BIOL 1009 - General Biology, BIOL SCI/L (4.0 cr)
or PSTL 1131 - Principles of Biological Science, BIOL SCI/L (4.0 cr)
FSCN 1021 - Introductory Microbiology, BIOL SCI/L (4.0 cr)
or VBS 2032 - General Microbiology With Laboratory (4.0 cr)
PHYS 1001W - Energy and the Environment, ENVT, PHYS SCI/L, WI (4.0 cr)
or PHYS 1101W - Introductory College Physics I, PHYS SCI/L, WI (4.0 cr)

Social Sciences
HSCI 1814 - Introduction to History of Science: Ancient Science to the Scientific Revolution, HP, IP (4.0 cr)
or HSCI 1815 - Introduction to History of Science: Modern Science, HP, IP (4.0 cr)
or any history course that meets HP or IP liberal education requirements
Plant Science
Take 3 or more credit(s) from the following:
AGRO 1103 - Crops, Environment, and Society, ENVT (4.0 cr)
HORT 1001 - Plant Propagation, BIOL SCI/L (4.0 cr)
HORT 1013 - Floral Design (2.0 cr)
HORT 3002W - Greenhouse Management, WI (3.0 cr)
AGRO 4401 - Plant Genetics and Breeding (4.0 cr)
or HORT 4401 - Plant Genetics and Breeding (4.0 cr)

Animal Science
ANSC 1403 - Companion Animal Nutrition and Care (3.0 cr)
or ANSC 2401 - Animal Nutrition (3.0 cr)
Take 1 or more course(s) from the following:
ANSC 1101 - Introductory Animal Science (4.0 cr)
ANSC 1511 - Food Animal Products for Consumers (3.0 cr)
ANSC 2102 - Livestock and Carcass Evaluation (3.0 cr)
or ANSC 3221 - Animal Breeding (4.0 cr)

Natural Resources
Take 6 or more credit(s) from the following:
EEB 3001 - Ecology and Society, ENV T (3.0 cr)
ENR 1201 - Conservation and Management of Natural Resources, ENVT (3.0 cr)
ES 1011 - Issues in the Environment, C/PE, ENV T (3.0 cr)
ES 1051 - Introduction to Environmental Science, ENV T (3.0 cr)
FW 1002 - Wildlife: Ecology, Values, and Human Impact, ENV T, C/PE (3.0 cr)

Soils
SOIL 1125 - The Soil Resource, ENV T, PHYS SCI/L (4.0 cr)
or SOIL 2125 - Basic Soil Science, ENV T (4.0 cr)

Applied Economics and Agribusiness
APEC 1101 - Principles of Microeconomics, SSCI (3.0 cr)
APEC 3451 - Food and Agricultural Sales (3.0 cr)
APEC 1251 - Principles of Accounting (3.0 cr)
or APEC 3811 - Principles of Farm Management (3.0 cr)
or APEC 3821 - Retail Center Management (3.0 cr)

Additional Required Courses
FSCN 1102 - Food: Safety, Risks, and Technology, C/PE (3.0 cr)
APEC 3112 - Technical Drawing and Production Technologies (3.0 cr)
or WHRE 3121 - Communication, Energy and Power, Transportation and Machinery Technologies (3.0 cr)

Foundations
CI 5452 - Reading in the Content Areas for Initial Licensure Candidates (1.0 cr)
EDHD 5001 - Learning, Cognition, and Assessment (3.0 cr)
EDHD 5003 - Developmental and Individual Differences in Educational Contexts (3.0 cr)
EDHD 5005 - School and Society (2.0 cr)
EDHD 5007 - Technology for Teaching and Learning (1.5 cr)
EDHD 5009 - Human Relations: Applied Skills for School and Society (1.0 cr)
EDPA 5341 - The American Middle School (3.0 cr)
FBCB 3003 - Fundamentals of Alcohol and Drug Abuse (2.0 cr)
or PUBH 3005 - Fundamentals of Alcohol and Drug Abuse for Teacher Education (1.0 cr)

Agricultural Education
AUEE 2096 - Professional Practicum in Agricultural Education: Early Experience (1.0-3.0 cr)
AUEE 5112 - Agricultural Education Program Organization and Curriculum for Youth (3.0 cr)
AUEE 5114 - Agricultural Education Teaching Seminar (1.0 cr)
AUEE 5116 - Coordination of SAE Programs: Work-based Learning (2.0 cr)
or AUEE 5118 - Strategies for Managing and Advising the FFA Organization (2.0 cr)

Work and Human Resource Education
Take 8 credits from the following. Standard first aid and cardiopulmonary resuscitation (CPR) training are required for licensure.
WHRE 5697 - Teaching Internship: School and Classroom Settings (2.0 cr)
WHRE 5698 - Teaching Internship (3.0-8.0 cr)

Natural and Managed Environmental Education
This specialization serves students preparing to teach agriscience, 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.

Students may graduate from this program with a minimum 2.00 GPA, but a minimum 2.50 GPA is required for recommendation for a Minnesota teaching license.

The specialization requires a broad study in agriculture focused on the natural and managed environmental education areas. Areas of study include the 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-year student teaching experience.

Required Courses
Physical and Biological Sciences
AGRI 1501 - Biotechnology, People, and the Environment, ENV T (3.0 cr)
or PSTL 1163 - Physical Systems: Principles and Practices, PHYS SCI/L (4.0 cr)
AGRO 1101 - Biology of Plant Food Systems, BIOL SCI/L, ENV T (4.0 cr)
or BIOL 1009 - General Biology, BIOL SCI/L (4.0 cr)
or PSTL 1131 - Principles of Biological Science, BIOL SCI/L (4.0 cr)
FSCN 1211 - Introductory Microbiology, BIOL SCI/L (4.0 cr)
or VBS 2032 - General Microbiology With Laboratory (4.0 cr)
PHYS 1001W - Energy and the Environment, ENV T, PHYS SCI/L, WI (4.0 cr)
or PHYS 1101W - Introductory College Physics I, PHYS SCI/L, WI (4.0 cr)

Social Sciences
HSCI 1814 - Introduction to History of Science: Ancient Science to the Scientific Revolution, HP, IP (4.0 cr)
or HSCI 1815 - Introduction to History of Science: Modern Science, HP, IP (4.0 cr)
or Any history course that meets HP or IP liberal education requirements

Natural Resources
ES 1011 - Issues in the Environment, C/PE, ENV T (3.0 cr)
Take 6 or more credit(s) from the following:
EEB 3001 - Ecology and Society, ENV T (3.0 cr)
ES 1051 - Introduction to Environmental Science, ENV T (3.0 cr)
FR 2104 - Measuring Forest Resources (1.0 cr)
FR 3101 - Forest Ecology (4.0 cr)
FW 1002 - Wildlife: Ecology, Values, and Human Impact, ENV T, C/PE (3.0 cr)
FW 2001 - Introduction to Fisheries, Wildlife, and Conservation Biology, ENV T (3.0 cr)

Land, Water, Atmosphere
SOIL 2125 - Basic Soil Science, ENV T (4.0 cr)
ENR 1201 - Conservation and Management of Natural Resources, ENV T (3.0 cr)
or ES 1425 - The Atmosphere, ENV T, PHYS SCI/L (4.0 cr)
or ES 3221 - Soil Conservation and Land-Use Management (3.0 cr)
or SOIL 3416 - Plant Nutrients in the Environment (3.0 cr)

Applied Economics and Agribusiness
APEC 1101 - Principles of Microeconomics, SSCI (3.0 cr)
or APEC 3451 - Food and Agricultural Sales (3.0 cr)
College of Education and Human Development

Animal Science
ANSC 2401 - Animal Nutrition (3.0 cr)
ANSC 1101 - Introductory Animal Science (4.0 cr)
or ANSC 1403 - Companion Animal Nutrition and Care (3.0 cr)
or ANSC 1511 - Food Animal Products for Consumers (3.0 cr)
or ANSC 2012 - Livestock and Carcass Evaluation (3.0 cr)
or ANSC 3203W - Environment, Global Food Production, and the Citizen, C/PE, ENVT, WI (3.0 cr)

Agricultural Mechanization
Take 1 or more course(s) from the following:
AFEE 3112 - Technical Drawing and Production Technologies (3.0 cr)
WHRE 3121 - Communication, Energy and Power, Transportation and Machinery Technologies (3.0 cr)

Plant Science
Take 3 or more credit(s) from the following:
AGRO 4401 - Plant Genetics and Breeding (4.0 cr)
HORT 4401 - Plant Genetics and Breeding (4.0 cr)
AGRO 4xxx
HORT 4xxx

Food Science
FSCN 1102 - Food: Safety, Risks, and Technology, C/PE (3.0 cr)

Foundations
CI 5452 - Reading in the Content Areas for Initial Licensure Candidates (1.0 cr)
EDHD 5001 - Learning, Cognition, and Assessment (3.0 cr)
EDHD 5003 - Developmental and Individual Differences in Educational Contexts (3.0 cr)
EDHD 5005 - School and Society (2.0 cr)
EDHD 5007 - Technology for Teaching and Learning (1.5 cr)
EDHD 5009 - Human Relations: Applied Skills for School and Society (1.0 cr)
EDPA 5341 - The American Middle School (3.0 cr)
PUBH 3005 - Fundamentals of Alcohol and Drug Abuse for Teacher Education
or PUBH 3003 - Fundamentals of Alcohol and Drug Abuse (2.0 cr)
or PUBH 3005 - Fundamentals of Alcohol and Drug Abuse for Teacher Education (1.0 cr)

Agricultural Education
AFEE 2096 - Professional Practicum in Agricultural Education: Early Experience (1.0-3.0 cr)
AFEE 5112 - Agricultural Education Program Organization and Curriculum for Youth (3.0 cr)
AFEE 5114 - Agricultural Education Teaching Seminar (1.0 cr)
AFEE 5116 - Coordination of SAE Programs: Work-based Learning (2.0 cr)
AFEE 5118 - Strategies for Managing and Advising the FFA Organization (2.0 cr)

Work and Human Resource Education
Take 8 credits from the following. Standard first aid and cardiopulmonary resuscitation (CPR) training are required for licensure.
WHRE 5697 - Teaching Internship: School and Classroom Settings (2.0 cr)
WHRE 5698 - Teaching Internship (3.0-8.0 cr)

Business and Marketing Education B.S.

Work and Human Resource Education
Requirements for this program are current for Fall 2006.
Required credits to graduate with this degree: 120.
Required credits within the major: 52 to 55.
Degree: Bachelor of Science

This undergraduate program focuses on business and marketing education, with a choice of computer or sales and marketing emphasis areas.

Coursework includes computer training, business communication, management, and marketing. The program prepares students to work as educators in business settings or to work in technical support and administration positions. This area of study can also prepare students for careers in office systems, accounting, marketing, sales, entrepreneurship, and international business.

Admission Requirements
Students must complete 30 credits before admission to the program.
For information about University of Minnesota admission requirements, visit the Office of Admissions Web site at http://admissions.tc.umn.edu.

General Requirements
Recommended freshman writing course(s) for this program: ENGC 1011

Program Requirements
A minimum grade of C- for is required in major courses with BIE, EDHD, HRD, and WHRE designators. A minimum grade of C- is also required for general psychology. Students must complete at least 30 credits in the college, with at least 20 credits completed in the senior year. A minimum 2.80 GPA in undergraduate coursework and additional requirements are required for admission to the M.Ed./initial licensure program in business and marketing education and Minnesota state teaching licensure in 5-12 business education.

Required Courses
Major Courses
ECON 1101, ECON 1102, and BA 3033W are required for students seeking Minnesota teaching licensure.
ECON 1101 - Principles of Microeconomics, IP, SSCI (4.0 cr)
or ECON 1102 - Principles of Macroeconomics, IP, SSCI (4.0 cr)
or APEC 1101 - Principles of Microeconomics, SSCI (3.0 cr)
or APEC 1102 - Principles of Macroeconomics, IP, SSCI (3.0 cr)
BA 3033W - Business Communication, WI (3.0 cr)
or RHET 3562W - Technical and Professional Writing, WI (4.0 cr)
COMM 1101 - Introduction to Public Speaking (3.0 cr)
or RHET 1223 - Oral Presentations in Professional Settings (3.0 cr)
PSTL 1281 - General Psychology, SSCI (4.0 cr)
or PSY 1001 - Introduction to Psychology, SSCI (4.0 cr)
PSTL 1454 - Statistics, MATH (4.0 cr)
or MATH 1001 - Excursions in Mathematics, MATH (3.0 cr)
or MATH 1031 - College Algebra and Probability, MATH (3.0 cr)
or STAT 1001 - Introduction to the Ideas of Statistics, MATH (4.0 cr)
or A higher level math course may be taken to fulfill this requirement. Consult an adviser for course options.
WHRE 3011W - Introduction to Technology and Public Ethics, C/PE, WI (3.0 cr)

Supporting Program
Students must create a supporting program of at least 13 credits with a business content. Students may choose from one of the three following three options, but students seeking Minnesota teaching licensure for grades 5-12 business education must select from the licensure course group.

Programmatic
Students select at least 13 business-related credits, all of which have a common course designator.
or Thematic
Students select 13 credits that support a general business theme, regardless of course designator.

or Licensure
Courses should be selected with faculty adviser approval.

Take 13 or more credit(s) from the following:
- ACCT 2050 - Introduction to Financial Reporting (4.0 cr)
- BIE 3055 - The Law of Contracts and Agency (4.0 cr)
- HRIR 3021 - Human Resource Management and Industrial Relations (3.0 cr)
- IDSC 3001 - Information Systems for Business Processes and Management (3.0 cr)
- MGMT 3001 - Fundamentals of Management (3.0 cr)
- MGMT 3014 - Topics in International Business, Government, and Society (4.0 cr)
- MGMT 4008 - Entrepreneurial Management (4.0 cr)
- MKTG 3001 - Principles of Marketing (3.0 cr)
- MKTG 4xxx
- FSOS 3101 - Personal and Family Finances (3.0 cr)
- INS 4201 - Personal Financial Management (2.0 cr)

Program Focus Areas
Students seeking Minnesota teaching licensure for grades 5-12 business education must select the computer focus area.

Students are required to complete one of the following course groups.

Computer Focus
- BIE 5011 - Introduction to Computer Applications (3.0 cr)
- BIE 5012 - Advanced Word Processing (3.0 cr)
- BIE 5013 - Spreadsheet Analysis Using Computers (3.0 cr)
- BIE 5014 - Database Computer Applications (3.0 cr)
- BIE 5015 - Integrated Computer Applications in Business and Marketing Education (3.0 cr)
- WHRE 5628 - Multimedia Presentations in Business (3.0 cr)

Take 3 or more credit(s) from the following:
- BIE 5597 - Internship: Business and Industry Education (1.0-8.0 cr)
- HRD 3201 - Introduction to Training and Development (3.0 cr)
- HRD 3301 - Introduction to Organization Development (3.0 cr)
- HRD 5302 - Managing Work Teams in Business and Industry (3.0 cr)
- WHRE 5121 - Principles of Supervisory Management (3.0 cr)
- WHRE 5301 - Philosophy and Practice of Career and Technical Education (2.0 cr)
- HRD 5627 - Management and Supervisory Development (3.0 cr)
- BIE 5662 - Computer Training in School and Industry Settings (3.0 cr)
- WHRE 5629 - Course Development for Business and Industry (2.0 cr)
- WHRE 5630 - Instructional Methods for Business and Industry (2.0 cr)

Sales and Marketing Focus
- BIE 3061 - Professional Sales Management (3.0 cr)
- BIE 5001 - Teaching Marketing Promotion (3.0 cr)
- BIE 5011 - Introduction to Computer Applications (3.0 cr)
- HRD 5624 - Sales Training (3.0 cr)
- HRD 5626 - Customer Service Training (3.0 cr)

Take 6 or more credit(s) from the following:
- BIE 5597 - Internship: Business and Industry Education (1.0-8.0 cr)
- HRD 3201 - Introduction to Training and Development (3.0 cr)
- HRD 3301 - Introduction to Organization Development (3.0 cr)
- HRD 5302 - Managing Work Teams in Business and Industry (3.0 cr)
- WHRE 5121 - Principles of Supervisory Management (3.0 cr)
- WHRE 5301 - Philosophy and Practice of Career and Technical Education (2.0 cr)
- HRD 5627 - Management and Supervisory Development (3.0 cr)
- BIE 5662 - Computer Training in School and Industry Settings (3.0 cr)
- WHRE 5601 - Student and Trainee Assessment (2.0 cr)

Career and Technical Education

B.S.

Work and Human Resource Education
Requirements for this program are current for Fall 2006.

Required credits to graduate with this degree: 120.

Required credits within the major: 90.

Degree: Bachelor of Science

The major in career and technical education (CTE) is a professional development degree program offering professional preparation in the field. Students may select one of several program options.

The licensure program option prepares students for Minnesota teaching licensure for grades 9-12 in one of eight career and technical education fields:
- communication technology careers
- construction careers
- creative design careers
- early childhood careers
- hospitality service careers
- manufacturing careers
- medical careers
- transportation careers.

The general career and technical education option prepares students to teach in technical and community college CTE programs.

For more information on program and licensure requirements, contact the program adviser at 612-625-7250.

Admission Requirements
Students must complete 30 credits before admission to the program.

Students must have completed at least 30 semester credits or sufficient verified and approved technical work experience to be awarded 30 credits toward the degree. A minimum 2.50 overall GPA is recommended for applicants to the licensure program options. Applicants to the postsecondary general career and technical education option must have a minimum grade of C- is also awarded 30 credits toward the degree. A minimum 2.00 overall GPA is required for recommendation for Minnesota teaching licensure.

For information about University of Minnesota admission requirements, visit the Office of Admissions Web site at http://admissions.tc.umn.edu.

General Requirements
Recommended freshman writing course(s) for this program:
- ENGC 1011

Program Requirements
A minimum 2.00 overall GPA with no grade lower than C- is required for major courses with the following designators: BIE, EDHD, HRD, and WHRE. A minimum grade of C- is also required for general psychology. A minimum 2.50 overall GPA is required for recommendation for Minnesota teaching licensure.

Electives to complete the 120 credits must be selected in consultation with an adviser.
Additional program offerings also include a certificate in qualify the student for the University of Minnesota Coaching series of courses. Completion of the coaching minor also will and practical nature of coaching through a planned and integrated The coaching minor offers an in-depth study of the theoretical Required credits in this minor: 21 to 42.

Requirements for this program are current for Fall 2006. Kinesiology, School of

Coaching Minor

Kinesiology, School of

Requirements for this program are current for Fall 2006. Required credits in this minor: 21 to 42.

The coaching minor offers an in-depth study of 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. Additional program offerings also include a certificate in coaching.

Admission Requirements

For information about University of Minnesota admission requirements, visit the Office of Admissions Web site at http://admissions.tc.umn.edu.

Program Requirements

Admission is open to all University students. A Coaching Program Application Form must be submitted. Students must also maintain a 2.50 GPA in courses submitted for the completion of the coaching minor.

Required Courses

Minor Courses

KIN 3113 - First Responder for Coaches and Athletic Trainers (3.0 cr) or current American Red Cross Standard First Aid and CPR Certification KIN 3114 - Prevention and Care of Athletic Injuries (3.0 cr) KIN 3133 - Motor Control, Learning, and Development (3.0 cr) KIN 3143 - Organization and Management of Sport (3.0 cr) or KIN 5725 - Organization and Management of Physical Education and Sport (3.0 cr) Take one KIN or two INMD courses in human anatomy. KIN 3027 - Human Anatomy for Kinesiology Students (3.0 cr) or KIN 3111 - Human Anatomy (2.0 cr) or take the following course pair INMD 3001 - Human Anatomy (3.0 cr) INMD 3002 - Human Anatomy Laboratory (1.0 cr)

Electives

In addition to the courses below, any program-related course approved by an adviser can be applied toward this minor.

Psychology and Physiology

Take 2 or more course(s) from the following: KIN 3112 - Introduction to Biomechanics (3.0 cr) KIN 4385 - Exercise Physiology (4.0 cr) KIN 5126 - Sport Psychology (3.0 cr) KIN 5136 - Psychology of Coaching (3.0 cr) SPST 3621 - Applied Sport Psychology (2.0 cr) SPST 3641 - Training and Conditioning for Sport (2.0 cr)

Coaching

Take 2 or more course(s) from the following: KIN 3168 - Soccer Coaching (1.0 cr) KIN 3169 - Volleyball Coaching (1.0 cr) KIN 3171 - Baseball Coaching (1.0 cr) KIN 3172 - Basketball Coaching (1.0 cr) KIN 3173 - Football Coaching (1.0 cr) KIN 3174 - Golf Coaching (1.0 cr) KIN 3175 - Gymnastics Coaching (1.0 cr) KIN 3176 - Ice Hockey Coaching (1.0 cr) KIN 3177 - Swimming and Diving Coaching (1.0 cr) KIN 3178 - Tennis Coaching (1.0 cr) KIN 3179 - Track and Field Coaching (1.0 cr) KIN 3181 - Wrestling Coaching (1.0 cr) KIN 5720 - Special Topics in Kinesiology (1.0-8.0 cr)

Senior Project

KIN 5697 includes a coaching experience under the supervision of a head coach or athletic director generally in a 7-12 grade setting. Coinciding with the practicum is a class requiring three integrated papers incorporating a personal coaching philosophy, the role of sport in society, and the identification of challenges in coaching in today’s society. KIN 5697 - Student Teaching: Coaching (1.0-10.0 cr)
Family Social Science B.S.

School of Social Work

Requirements for this program are current for Fall 2006.

Required credits to graduate with this degree: 120.

Required credits within the major: 55 to 58.

Degree: Bachelor of Science.

Family social science is a multidisciplinary major for those who are interested in helping people, counseling, and understanding human relationships. This major prepares graduates for careers in working with individuals, families, or systems in human services. The major is enhanced by a required internship related to the student’s specific program and career goals. Qualified graduates may continue their education through graduate study in family social science, child and human development, social work, or allied health disciplines.

Admission Requirements

For information about University of Minnesota admission requirements, visit the Office of Admissions Web site at http://admissions.tc.umn.edu.

General Requirements

Recommended freshman writing course(s) for this program: RHET 1101

Program Requirements

Required Courses

Preparatory Courses

APEC 1101 - Principles of Microeconomics, SSCI (3.0 cr)
or APEC 1102 - Principles of Macroeconomics, IP, SSCI (3.0 cr)
or ECON 1101 - Principles of Microeconomics, IP, SSCI (4.0 cr)
or ECON 1102 - Principles of Macroeconomics, IP, SSCI (4.0 cr)
or ECON 1104 - Principles of Microeconomics, IP, SSCI (4.0 cr)
STAT 1001 - Introduction to the Ideas of Statistics, MATH (4.0 cr)
or PSTL 1285W - Introduction to Cultural Anthropology, IP, SSCI, WI (4.0 cr)
or FPSTL 1285W - Introduction to Language and Culture, IP, SSCI, WI (4.0 cr)
or SPSTL 1461 - Oral Communication in the Public Sphere, C/PE (3.0 cr)
or RHET 1223 - Oral Presentations in Professional Settings (3.0 cr)
or ENGC 3027W - Advanced Expository Writing, WI (4.0 cr)
or RHET 3562W - Technical and Professional Writing, WI (4.0 cr)
or PSY 4801 - Introduction to Statistics (4.0 cr)
or STAT 3011 - Introduction to Statistical Analysis, MATH (4.0 cr)

FSOS 1101 - Intimate Relationships, CD, SSCI (4.0 cr)
or FSOS 3102 - Family Systems and Diversity, CD, SSCI (3.0 cr)
or FSOS 3104 - Global and Diverse Families (3.0 cr)
or FSOS 4294 - Research Internship (1.0-4.0 cr)
or FSOS 4296 - Field Study: Working With Families (1.0-12.0 cr)

Major Courses

FSOS 2101 - Preparation for Working With Families (2.0 cr)
FSOS 2103 - Family Policy (3.0 cr)
FSOS 2105 - Methods in Family Research (3.0 cr)
FSOS 3101 - Personal and Family Finances (3.0 cr)
FSOS 3102 - Family Systems and Diversity, CD, SSCI (3.0 cr)
FSOS 3104 - Global and Diverse Families (3.0 cr)

Professional Core Courses

Take 18 or more credit(s) from the following:
FSOS 3426 - Alcohol and Drugs: Families and Culture, CD, SSCI (3.0 cr)
FSOS 3429 - Counseling Skills Practicum I (3.0 cr)
FSOS 4101 - Sexuality and Gender in Families and Close Relationships (3.0 cr)
FSOS 4104W - Family Psychology, WI (3.0 cr)
FSOS 4106 - Family Resource Management (3.0 cr)
FSOS 4150 - Special Topics in Family Social Science (1.0-4.0 cr)
FSOS 4152 - Gay, Lesbian, and Bisexual People in Families (3.0 cr)
FSOS 4153 - Family Financial Counseling (3.0 cr)
FSOS 4154W - Families and Aging, WI (3.0 cr)
FSOS 4155 - Parent-Child Relationships (3.0 cr)
FSOS 4156 - Legal-Economic Controversies in Families (3.0 cr)
FSOS 5150 - Special Topics in Family Social Science (1.0-4.0 cr)
FSOS 5426 - Alcohol and Drugs: Families and Culture (3.0 cr)

Advanced/Applied Skill Course

Students must take FSOS 4294 or FSOS 4296 for 4 credits.

Take 4 or more credit(s) from the following:
FSOS 4294 - Research Internship (1.0-4.0 cr)
FSOS 4296 - Field Study: Working With Families (1.0-12.0 cr)

Family Social Science Minor

Requirements for this program are current for Fall 2006.

Required credits in this minor: 15.

See major description for more information.

Admission Requirements

For information about University of Minnesota admission requirements, visit the Office of Admissions Web site at http://admissions.tc.umn.edu.

Program Requirements

Required Courses

Minor Courses

FSOS 1101 - Intimate Relationships, CD, SSCI (4.0 cr)
FSOS 3102 - Family Systems and Diversity, CD, SSCI (3.0 cr)

Take 3 or more course(s) from the following:
FSOS 2103 - Family Policy (3.0 cr)
FSOS 3101 - Personal and Family Finances (3.0 cr)
FSOS 3104 - Global and Diverse Families (3.0 cr)
FSOS 3426 - Alcohol and Drugs: Families and Culture, CD, SSCI (3.0 cr)
FSOS 4101 - Sexuality and Gender in Families and Close Relationships (3.0 cr)
FSOS 4104W - Family Psychology, WI (3.0 cr)
FSOS 4106 - Family Resource Management (3.0 cr)
FSOS 4152 - Gay, Lesbian, and Bisexual People in Families (3.0 cr)
FSOS 4154W - Families and Aging, WI (3.0 cr)
FSOS 4155 - Parent-Child Relationships (3.0 cr)

Communication Courses

COMM 1101 - Introduction to Public Speaking (3.0 cr)
or RHET 1461 - Oral Communication in the Public Sphere, C/PE (3.0 cr)
or RHET 1223 - Oral Presentations in Professional Settings (3.0 cr)
or ENGC 3027W - Advanced Expository Writing, WI (4.0 cr)
or RHET 3562W - Technical and Professional Writing, WI (4.0 cr)
Family Violence Prevention Minor

Family Social Science

Requirements for this program are current for Fall 2006.

Required credits in this minor: 15.

The family violence prevention minor is a 15-credit undergraduate program for students interested in strengthening their educational experience with a research base and a set of practical skills in family violence prevention. It is an intensive, interdisciplinary learning experience for students in all fields of study.

Courses are in fields related to social services, education, health care, and other direct services addressing issues related to child abuse and neglect, adult domestic violence, elder abuse, and intergenerational abuse. Students learn theories and research related to violent behavior, examine relationships between violence in society and violence within families, and explore different professional responses to violence. Elective courses provide the opportunity to integrate these concepts into further study within a major or in other fields of interest.

Admission Requirements

For information about University of Minnesota admission requirements, visit the Office of Admissions Web site at http://admissions.tc.umn.edu.

Program Requirements

Required Courses

Minor Courses

SW 3701 - Introduction to Child Maltreatment and Family Violence, CD, WI (3.0 cr)
SW 3702 - Child Maltreatment and Family Violence: Intervention and Prevention, SSCI (3.0 cr)
SW 3705 - Gender Violence in Global Perspective, IP (3.0 cr)

Take 6 or more credits from the following:

CAPY 5623 - Assessment and Treatment Interventions: Anxiety and Depression in Children and Adolescents (1.0 cr)
CAPY 5644 - Workshop: Child Abuse/Neglect and Childhood Psychopathology: Implications for Assessment/Treatment (1.0 cr)
CSPH 5211 - Peacemaking and Spirituality: A Journey Toward Healing and Strength (2.0-3.0 cr)
EPSY 5152 - Psychology of Conflict Resolution (3.0 cr)
FSOS 1101 - Intimate Relationships, CD, SSCI (4.0 cr)
FSOS 3104 - Global and Diverse Families (3.0 cr)
FSOS 3426 - Alcohol and Drugs: Families and Culture, CD, SSCI (3.0 cr)
JWST 3521W - History of the Holocaust, WI (3.0 cr)
SOC 3101 - Introduction to the American Criminal Justice System, C/PE, SSCI (3.0 cr)
SOC 3102 - Introduction to Criminal Behavior and Social Control (3.0 cr)
SOC 3501 - Sociology of Families, CD, SSCI (3.0 cr)
SOC 4461 - Sociology of Ethnic and Racial Conflict, CD, IP (3.0 cr)
SW 5519 - Mediation and Conflict Resolution (3.0 cr)
SW 5525 - Global Perspectives on Social Welfare, Peace, and Justice (3.0 cr)
SW 5706 - Issues and Interventions in Child Sexual Abuse (2.0 cr)
SW 5707 - Interventions with Battered Women and Their Families (2.0 cr)
SW 5708 - Substance Abuse and Social Work (3.0 cr)
YOST 5322 - Work with Youth--Families (2.0 cr)
AFRO 3072 - Racism: Social and Psychological Consequences for Black Americans (3.0 cr)
or AFRO 5072 - Racism: Social and Psychological Consequences for Black Americans (3.0 cr)

Foundations of Education: Early Childhood B.S.

Institute of Child Development

Requirements for this program are current for Summer 2006.

Required credits to graduate with this degree: 120.

Required credits within the major: 60.

Degree: Bachelor of Science.

The undergraduate program in foundations of education: early childhood (FOE: EC) prepares upper division students to work with young children and their families and to work with both typically or atypically developing children. The curriculum includes an extensive core of liberal education courses that are central to early childhood teaching and child development.

The program prepares graduates to work in non-licensure educational settings (including daycare centers or youth community programs), pursue advanced degrees, or work in other settings where a strong liberal education base is useful.

In addition, the undergraduate degree program prepares students for entry into the master of education (M.Ed.)/initial licensure program in early childhood education and early childhood special education. M.Ed. admission requirements include successful completion of all requirements for the B.S. degree, and successful school practicum experiences. Preferred admission to the M.Ed. program requires a minimum 2.80 GPA.

Admission Requirements

Students must complete 60 credits before admission to the program.

A GPA above 2.00 is preferred for the following:

• 2.50 for students already admitted to the degree-granting college.

• 2.50 for students transferring from another University of Minnesota college.

• 2.50 for students transferring from outside the University.

Program admission is based on the following criteria:

• Minimum 2.50 overall GPA

• Completion of at least 60 credits, including credits in progress at the time of application. This includes completion of the two-course psychology requirement and at least half of the courses in content areas 2–6. After program admission, students must complete remaining courses in content areas 2–6 and all courses in content areas 7–8.

• Reflective essay. See the CEHD Undergraduate Application for Foundations of Education (FOE): Early Childhood for more information.

For information about University of Minnesota admission requirements, visit the Office of Admissions Web site at http://admissions.tc.umn.edu.

Required Courses for Admission

Basic Requirements (Content Area 1)

One year college-level spoken second language or American Sign Language (ASL) is highly recommended.

PSTL 1281 - General Psychology, SSCI (4.0 cr)
or PSY 1001 - Introduction to Psychology, SSCI (4.0 cr)
CPSY 2301 - Introductory Child Psychology, SSCI (4.0 cr)
or CPSY 3301 - Introductory Child Psychology for Social Sciences (4.0 cr)
or PSTL 2283W - Psychology of Human Development, SSCI, WI (4.0 cr)
Language and Communication (Content Area 2)
COMM 1101 - Introduction to Public Speaking (3.0 cr)
or COMM 3402 - Introduction to Interpersonal Communication, SSCI (3.0 cr)
or PSTL 1461 - Oral Communication in the Public Sphere, C/PE (3.0 cr)
or RHET 1223 - Oral Presentations in Professional Settings (3.0 cr)
CPSY 4345 - Language Development and Communication (4.0 cr)
or LING 5501 - Introduction to Language Acquisition (3.0 cr)
ENGL 3601 - Analysis of the English Language (4.0 cr)
or LING 1701 - Language and Society, CD (4.0 cr)
or LING 3001 - Introduction to Linguistics, SSCI (4.0 cr)

Mathematics (Content Area 3)
EPSY 3254 - Basic and Applied Statistics, MATH (3.0 cr)
or PSTL 1454 - Statistics, MATH (4.0 cr)
or PSY 4801 - Introduction to Statistics (4.0 cr)
or STAT 1001 - Introduction to the Ideas of Statistics, MATH (4.0 cr)
MATH 1031 - College Algebra and Probability, MATH (3.0 cr)
or MATH 1051 - Precalculus I (3.0 cr)
or MATH 1151 - Precalculus II, MATH (3.0 cr)
Logic/computer skills course approved by an adviser.

Science (Content Area 4)
Students must complete a biological science course with a lab, a physical science course with a lab, and one science course with or without a lab.
Select any course in the diversified core BIOL/L.
Select any course in the diversified core PHYS/L.
Select any course in the diversified cores BIOL, PHYS, or ENVT.

Social Studies (Content Area 5)
CSCL 3979 - Issues in Cultural Pluralism, C/PE, CD (3.0 cr)
or PSTL 1851 - Multicultural Relations, CD (3.0 cr)
or SOC 1001 - Introduction to Sociology, CD, SSCI (4.0 cr)
or SOC 3211W - American Race Relations, CD, SSCI, WI (3.0 cr)
PSTL 1231 - Perspectives in American History, HP (4.0 cr)
or HIST 1301W - U.S. History to 1877, CD, HP, WI (4.0 cr)
or HIST 1302W - U.S. History, From 1865 to Present, CD, HP, WI (4.0 cr)
or HIST 1307 - American History to 1877, CD, HP (3.0 cr)
or HIST 1308 - U.S. History: From 1865 to Present, CD, HP (3.0 cr)
GEOG 1301W - Introduction to Human Geography, IP, SSCI, WI (4.0 cr)
or GEOG 3381W - Population in an Interacting World, IP, SSCI, WI (4.0 cr)

Communication Arts and Literature (Content Area 6)
AMIN 3201W - American Indian Literature, CD, LJT, WI (3.0 cr)
or ENGL 1201W - Introduction to American Literature, CD, LJT, WI (4.0 cr)
or ENGL 1301W - Introduction to Multicultural American Literature, CD, LJT, WI (4.0 cr)
or ENGL 3005W - Survey of American Literatures and Cultures I, CD, LJT, WI (4.0 cr)
or ENGL 3006W - Survey of American Literatures and Cultures II, CD, LJT, WI (4.0 cr)
or ENGL 3591W - Introduction to African American Literature, CD, LJT, WI (4.0 cr)
or PSTL 1364 - Literature of the American Immigrant Experience, CD, LJT (3.0 cr)
or PSTL 1365W - Literatures of the United States, CD, LJT, WI (3.0 cr)
or PSTL 1816 - African-American Literature, CD, LJT (3.0 cr)
or PSTL 1836 - Asian-American Literature, CD, LJT (3.0 cr)
CI 3401 - Children’s Literature: Pre-K Through Grade 5 (3.0 cr)

General Requirements
Recommended freshman writing course(s) for this program:
ENGC 1011

Program Requirements
Requirements include a minimum 2.00 GPA and no grade lower than C- for major courses with the following designators and numbers: CI, CPSY, EDHD, EPSY, and KIN 4132. Students seeking to pursue the M.Ed./initial licensure program in early childhood education and early childhood special education and Minnesota state teaching licensure must have a 2.80 GPA in the undergraduate program and meet other requirements. The Praxis I test must be completed before graduation and before entry into the M.Ed./initial licensure program.

Required Courses
Foundation Courses (Content Area 7)
CPSY 4331 - Social and Personality Development (4.0 cr)
CPSY 4343 - Cognitive Development (4.0 cr)
CPSY 4993 - Directed Instruction in Child Psychology (1.0-4.0 cr)
EDHD 5007 - Technology for Teaching and Learning (1.5 cr)
EDHD 5009 - Human Relations: Applied Skills for School and Society (1.0 cr)
PUBH 3003 - Fundamentals of Alcohol and Drug Abuse (2.0 cr)
or PUBH 3005 - Fundamentals of Alcohol and Drug Abuse for Teacher Education (1.0 cr)
KIN 4132 - Motor Development (3.0 cr)

Major Courses (Content Area 8)
Students must be admitted to the program before taking these classes. Many of the major courses have an experiential component.
CI 5111 - Introduction to Elementary School Teaching (3.0 cr)
CPSY 5251 - Social and Philosophical Foundations of Early Childhood Education (3.0 cr)
CPSY 5252 - Facilitating Social and Physical Learning in Early Childhood Education (3.0 cr)
CPSY 5253 - Facilitating Cognitive and Creative Learning in Early Childhood Education (3.0 cr)
CPSY 5281 - Student Teaching in Early Childhood Education (3.0 cr)
EPSY 5625 - Education of Infants, Toddlers, and Preschool Children with Disabilities: Introduction (2.0 cr)
EPSY 5681 - Education of Infants, Toddlers, and Preschool Children with Disabilities: Methods and Materials (3.0 cr)

Pre-Licensure or Non-Licensure Options
Students are required to complete one of the following course groups.

Preparation for M.Ed. Initial Licensure
Students planning to pursue the M.Ed./initial licensure program in early childhood education and early childhood special education must complete courses in Sections A and B. Coursework in Section A may be completed during the senior year of the undergraduate FOE: EC program or as part of the M.Ed./initial licensure program. Coursework in Section B must be taken after admission to the M.Ed. program.

Section A
CPSY 4334W - Children, Youth in Society, C/PE, WI (4.0 cr)
CPSY 436W - Development and Interpersonal Relations, WI, (4.0 cr)
EPSY 5609 - Family-Centered Services (2.0 cr)
EPSY 5616 - Behavior Analysis and Classroom Management (3.0 cr)
Section B
EP SY 5753 requires two, three-credit teaching experiences.
CI 5181 - Clinical Experience in Elementary School Teaching (3.0-8.0 cr)
CI 5415 - Literacy Development in the Primary Grades (3.0 cr)
CI 5504 - Elementary School Science: Materials and Resources (3.0 cr)
CI 5701 - Teaching Social Studies in the Elementary School (2.0 cr)
CI 5821 - Teaching Mathematics in the Elementary School (2.0 cr)
EP SY 5753 - Student Teaching: Early Childhood Special Education (1.0-6.0 cr)
EP SY 5849 - Observation and Assessment of the Preschool Child (3.0 cr)

Non-Licensure Option
Students complete appropriate electives of interest for their program, in consultation with their adviser.

Foundations of Education:
Elementary B.S.

Curriculum & Instruction
Requirements for this program are current for Fall 2006.
Required credits to graduate with this degree: 120.
Required credits within the major: 60.
Degree: Bachelor of Science
The B.S. degree program in foundations of education (FOE): elementary education prepares students to work with children, including those with special needs and in urban school settings.
The program does not lead directly to teaching licensure, but prepares students to enter the master of education (M.Ed.)/initial licensure program in elementary education, which leads to state of Minnesota teaching licensure. It also prepares graduates to work in non-licensure educational settings (daycare centers or youth community programs) or other settings where a strong liberal education base is useful. The curriculum includes an extensive core of liberal education coursework that is central to elementary school teaching.

Admission Requirements
Students must complete 60 credits before admission to the program.
A GPA above 2.00 is preferred for the following:
• 2.50 for students already admitted to the degree-granting college.
• 2.50 for students transferring from another University of Minnesota college.
• 2.50 for students transferring from outside the University.
Admission is based on the following criteria:
• Minimum 2.50 overall GPA; higher GPA is recommended.
• Completion of at least 60 credits, including credits in progress at the time of application. This includes general psychology coursework and at least half of the courses in each of the five content areas.
• At least 35 hours in a K-6 public classroom setting.
• Experience with diverse populations.
Completion of two semesters of language is recommended before admission.

For information about University of Minnesota admission requirements, visit the Office of Admissions Web site at http://admissions.tc.umn.edu.

Required Courses for Admission

Basic Requirements (Content Area 1)
MUS 1001 may be waived for students who have musical aptitude equivalent to five to six years study of an instrument, through high school. Contact a program adviser for more information.
CI 1001 - Introduction to the Elementary School (3.0 cr)
MUS 1001 - Fundamentals of Music, OH (3.0 cr)
ENGL 3601 - Analysis of the English Language (4.0 cr)
or LING 1701 - Language and Society, CD (4.0 cr)
or LING 3001 - Introduction to Linguistics, SSCI (4.0 cr)
or LING 5001 - Introduction to Linguistics (4.0 cr)
PSTL 1281 - General Psychology, SSCI (4.0 cr)
or PSY 1001 - Introduction to Psychology, SSCI (4.0 cr)

Mathematics (Content Area 2)
Students pursuing a middle school specialty in mathematics must complete one course in statistics and one course in calculus.
EP SY 3264 - Basic and Applied Statistics, MATH (3.0 cr)
or PSTL 1454 - Statistics, MATH (4.0 cr)
or PSTL 1456 - Functions and Problems of Logic, MATH (3.0 cr)
or MATH 1142 - Short Calculus, MATH (4.0 cr)
or MATH 1271 - Calculus I, MATH (4.0 cr)
or MATH 1272 - Calculus II (4.0 cr)
or MATH 1281 - Calculus with Biological Emphasis I, MATH (4.0 cr)
or MATH 1371 - IT Calculus I, MATH (4.0 cr)
or PHIL 1001 - Introduction to Logic, MATH (4.0 cr)
or STAT 1001 - Introduction to the Ideas of Statistics, MATH (4.0 cr)
or STAT 3011 - Introduction to Statistical Analysis, MATH (4.0 cr)
MATH 1031 - College Algebra and Probability, MATH (3.0 cr)
or MATH 1051 - Precalculus I (3.0 cr)
or MATH 1151 - Precalculus II, MATH (3.0 cr)

Complete one of the following course pairs.
MATH 3113 - Topics in Elementary Mathematics I (4.0 cr)
MATH 3118 - Topics in Elementary Mathematics II (4.0 cr)
or
MTHE 3101 - Mathematics and Pedagogy for Elementary Teachers I (4.0 cr)
MTHE 3102 - Mathematics and Pedagogy for Elementary Teachers II (4.0 cr)

Science (Content Area 3)
AGRO 2101 - Biology of Food, Land, People, and the Environment, BIOL SCI/L, ENVT (4.0 cr)
or BIOL 1001 - Introductory Biology I: Evolutionary and Ecological Perspectives, BIOL SCI/L, ENVT (4.0 cr)
or BIOL 1009 - General Biology, BIOL SCI/L (4.0 cr)
or PSTL 1131 - Principles of Biological Science, BIOL SCI/L (4.0 cr)
or GEOG 1403 - Biogeography of the Global Garden, BIOL SCI/L, ENVT (4.0 cr)
AST 1001 - Exploring the Universe, ENVT, PHYS SCI/L (4.0 cr)
or PSTL 1171 - Physical Geology, ENVT, PHYS SCI/L (4.0 cr)
or PSTL 1172 - Historical Geology, PHYS SCI/L (4.0 cr)
or PSTL 1173 - Geology of the National Parks, ENVT, PHYS SCI/L (4.0 cr)
or GEO 1001 - Earth and Its Environments, ENVT, PHYS SCI/L (4.0 cr)
or GEO 1002 - Earth History, ENVT, PHYS SCI/L (4.0 cr)
CHEM 1011 - Introductory Chemistry: Lecture and Laboratory, PHYS SCI/L (4.0 cr)
or CHEM 1021 - Chemical Principles I, ENVT, PHYS SCI/L (4.0 cr)
or CHEM 1022 - Chemical Principles II, ENVT, PHYS SCI/L (4.0 cr)
or PSTL 1163 - Physical Systems: Principles and Practices, PHYS SCI/L (4.0 cr)
or PHYS 3071W - Laboratory-Based Physics for Teachers, PHYS SCI/L, WI (4.0 cr)
or PHYS 1001W - Energy and the Environment, ENVT, PHYS SCI/L, WI (4.0 cr)
or PHYS 1101W - Introductory College Physics I, PHYS SCI/L, WI (4.0 cr)
or PHYS 1201W - Introductory Physics for Biology and Pre-medicine I, PHYS SCIL, WI (3.0 cr)  
FSCN 1112 - Principles of Nutrition, ENVT (3.0 cr)  
or any science course elective with or without lab.

Social Studies (Content Area 4)  
AMST 3113W - America’s Diverse Cultures, CD, OH, WI (3.0 cr)  
or CSCL 3979 - Issues in Cultural Pluralism, C/PE, CD (3.0 cr)  
or ENGL 3741 - Literacy and American Cultural Diversity, C/PE, CD (4.0 cr)  
or PSTL 1211 - People and Problems, CD, SSCI (4.0 cr)  
or PSTL 1851 - Multicultural Relations, CD (3.0 cr)  
or SOC 1001 - Introduction to Sociology, CD, SSCI (4.0 cr)  
or SOC 3211W - American Race Relations, CD, SSCI, WI (3.0 cr)  
PSTL 1211 - Perspectives in American History, HP (4.0 cr)  
or HIST 1302W - U.S. History, From 1865 to Present, CD, HP, WI (4.0 cr)  
or HIST 1308 - U.S. History: From 1865 to Present, CD, HP (3.0 cr)  
GEOG 1301W - Introduction to Human Geography, IP, SSCI, WI (4.0 cr)  
or GEOG 3381W - Population in an Interacting World, IP, SSCI, WI (4.0 cr)  
Select any course that meets the Council on Liberal Education (CLE) requirements in both Historical Perspectives (HI) and International Perspectives (IP).

Communication and Literature (Content Area 5)  
Students pursuing the middle school specialty in communication arts and literature are required to take one of the ENGW courses in creative writing listed below. Completion of a course with the designator ARTH, ARTS, COMM, DNCE, ENGL, HUM, PHIL, or TH will not fulfill the requirement for those with a middle school specialty.  
AFRO 3594W - Introduction to Contemporary Black Fiction, WI (3.0 cr)  
or AMIN 3201W - American Indian Literature, CD, LIT, WI (3.0 cr)  
or CHIC 3507W - Introduction to Chicano/a Literature, LIT, CD, WI (3.0 cr)  
or ENGL 1301W - Introduction to Multicultural American Literature, CD, LIT, WI (4.0 cr)  
or ENGW 3300 - Multicultural American Literatures and Cultures (3.0 cr)  
or PSTL 1364 - Literature of the American Immigrant Experience, CD, LIT (3.0 cr)  
or PSTL 1816 - African-American Literature, CD, LIT (3.0 cr)  
or PSTL 1836 - Asian-American Literature, CD, LIT (3.0 cr)  
or AFRO 3591W - Introduction to African American Literature, CD, LIT, WI (4.0 cr)  
or ENGL 3591W - Introduction to African American Literature, CD, LIT, WI (4.0 cr)  
or AFRO 3592W - Introduction to Black Women Writers in the United States, CD, LIT, WI (3.0 cr)  
or ENGL 3592W - Introduction to Black Women Writers in the United States, CD, LIT, WI (3.0 cr)  
or AFRO 9601 - Introduction to African Literature, LIT, IP (3.0 cr)  
or ENGL 1401W - Introduction to “Third World” Literatures in English, IP, LIT, WI (4.0 cr)  
or ENGL 3004W - Historical Survey of British Literatures II, WP, WI (4.0 cr)  
or ENGL 3171 - Modern British Literatures and Cultures (3.0 cr)  
or ENGL 3180 - Contemporary Literature and Cultures (3.0 cr)  
or PSTL 1367W - Contemporary Literature: International Perspectives, IP, LIT, WI (4.0 cr)  
ENGW 1101W - Introduction to Creative Writing, LIT, WI (4.0 cr)  
or ENGW 1102 - Introduction to Fiction Writing (3.0 cr)  
or ENGW 1103 - Introduction to Poetry Writing (3.0 cr)  
or ENGW 1104 - Introduction to Literary Nonfiction Writing (3.0 cr)  
or ENGW 3102 - Intermediate Fiction Writing (3.0 cr)  
or ENGW 3104 - Intermediate Poetry Writing (3.0 cr)  
or ENGW 3106 - Intermediate Literary Nonfiction Writing (3.0 cr)  
or ENGW 3110 - Topics in Creative Writing (3.0 cr)  
or PSTL 1311 - Art: General Art, IP, OH (3.0 cr)  
or RHET 1223 - Oral Presentations in Professional Settings (3.0 cr)  
or Any course from the following designators: ARTH, ARTS, COMM, DNCE, ENGL, HUM, PHIL, TH.

General Requirements  
Recommended freshman writing course(s) for this program:  
ENGC 1011

Program Requirements  
Students are required to take 2 semester(s) of any second language.

Required Courses  
Introduction to Elementary Education  
Take all of the following in the first semester of the program:  
CI 5111 - Introduction to Elementary School Teaching (3.0 cr)  
CI 5183 - Applying Instructional Methods in the Elementary Classroom (1.0-2.0 cr)  
EDHD 5001 - Learning, Cognition, and Assessment (3.0 cr)  

Special Education  
These courses must be taken one year after the Introduction to Elementary Education courses.  
Take all of the following in the same term:  
CI 5183 - Applying Instructional Methods in the Elementary Classroom (1.0-2.0 cr)  
EPSY 5613 - Foundations of Special Education I (3.0 cr)  
EPSY 5616 - Behavior Analysis and Classroom Management (3.0 cr)  

Foundation Courses  
EDHD 5003 - Developmental and Individual Differences in Educational Contexts (3.0 cr)  
EDHD 5005 - School and Society (2.0 cr)  
EDHD 5007 - Technology for Teaching and Learning (1.5 cr)  
EDHD 5009 - Human Relations: Applied Skills for School and Society (1.0 cr)  
PUBH 3003 - Fundamentals of Alcohol and Drug Abuse (2.0 cr)  
or PUBH 3005 - Fundamentals of Alcohol and Drug Abuse for Teacher Education (1.0 cr)  

Specialty Areas  
Students are required to complete one of the following course groups.

Middle School Specialty (Grades 5-8)  
Students selecting a middle school specialty may be required to complete additional coursework in mathematics, science, social studies, or communication arts and literature. These additional requirements are noted in content areas above. Consult an adviser for more information.

CPSY 4303 - Adolescent Psychology (4.0 cr)

OR-

Preprimary Specialty (Ages 3-4)  
CPSY 4331 - Social and Personality Development (4.0 cr)  
CPSY 4343 - Cognitive Development (4.0 cr)  
CPSY 4993 - Directed Instruction in Child Psychology (1.0-4.0 cr)  
CPSY 2301 - Introductory Child Psychology, SSCI (4.0 cr)  
or CPSY 3301 - Introductory Child Psychology for Social Sciences (4.0 cr)  
or PSTL 2283W - Psychology of Human Development, SSCI, WI (4.0 cr)
Human Resource Development
B.S.

Work and Human Resource Education

Requirements for this program are current for Fall 2006.
Required credits to graduate with this degree: 120.
Required credits within the major: 40.
Degree: Bachelor of Science

The B.S. in human resource development prepares students for positions in training, career development, organization development, employee assistance, and workplace learning and development.

Undergraduate students prepare for entry-level employment in human resource development. Typical careers in the field include instructional designer, technical trainer, training coordinator, organization development specialist, performance consultant, training facilitator, or learning and development specialist.

Undergraduates can also develop a foundation for advanced study and the degrees (M.Ed., M.A., PhD., or Ed.D.) that are typically required for advancement in the field.

All students select a programmatic or thematic supporting program. Although there are few restrictions on the choice of supporting program, students usually choose to focus on fields of human resources and industrial relations, psychology, adult education, management, communication studies, or rhetoric.

The program core requires students to develop a baseline understanding of training and development, organization development, and adult education. Students who complete the B.S. degree in human resource development also earn a certificate in human resource development. For more information on the certificate, see the certificates section.

Admission Requirements

Students must complete 60 credits before admission to the program.

A GPA above 2.00 is preferred for the following:
• 2.50 for students already admitted to the degree-granting college
• 2.50 for students transferring from another University of Minnesota college.
• 2.50 for students transferring from outside the University.

Admission requirements include 60 credits, completed or in progress.

For information about University of Minnesota admission requirements, visit the Office of Admissions Web site at http://admissions.tc.umn.edu.

General Requirements

Recommended freshman writing course(s) for this program: ENGC 1011

Program Requirements

A minimum 2.00 GPA with no grade lower than C- is required for major courses with the following designators: ADED, BIE, FE, HRD, and WHRE. A minimum grade of C- is also required for general psychology.

Required Courses

Foundation Courses

All students must have basic competence in computer applications. Students lacking such competence at the time of admission must take BIE 5011. Students with basic competence must take one advanced course, chosen in consultation with an adviser.

WHRE 5011W - Introduction to Technology and Public Ethics, C/PE, WI (3.0 cr)
BIE 5011 - Introduction to Computer Applications (3.0 cr)
or an advanced computer course, chosen in consultation with an adviser
COMM 1101 - Introduction to Public Speaking (3.0 cr)
or RHET 1223 - Oral Presentations in Professional Settings (3.0 cr)
ECON 1101 - Principles of Microeconomics, IP, SSCI (4.0 cr)
or ECON 1102 - Principles of Macroeconomics, IP, SSCI (4.0 cr)
PSTL 1281 - General Psychology, SSCI (4.0 cr)
or PSY 1001 - Introduction to Psychology, SSCI (4.0 cr)
MATH 1001 - Excursions in Mathematics, MATH (3.0 cr)
or MATH 1031 - College Algebra and Probability, MATH (3.0 cr)
or STAT 1001 - Introduction to the Ideas of Statistics, MATH (4.0 cr)
or one higher level math course
RHET 3562W - Technical and Professional Writing, WI (4.0 cr)
or one advanced composition course approved by an adviser.

Major Courses

HRD 3001 - Introduction to Human Resource Development (3.0 cr)
HRD 3196 - Profession and Practice of Human Resource Development (2.0 cr)
HRD 3201 - Introduction to Training and Development (3.0 cr)
HRD 3301 - Introduction to Organization Development (3.0 cr)
HRD 5196 - Internship: Human Resource Development (1.0-10.0 cr)
ADED 3101 - Introduction to Strategies for Teaching Adults (3.0 cr)
Take 5 or more credit(s) from the following:
WHRE 5121 - Principles of Supervisory Management (3.0 cr)
WHRE 5201 - Family and Work Relationships (3.0 cr)
HRD 3xxx
HRD 4xxx
HRD 5xxx

HRD Options

Students are required to complete one of the following course groups.

Programmatic

Students select 13 credits, all of which have a common course designator. Frequently selected programs include human resources/industrial relations (HRIR), speech communication (COMM), management (MGMT), adult education (ADED), and business and industry education (BIE). Choices are not limited to these designators.

-OR-

Thematic

Students select 13 credits that support a common theme, regardless of course designator. Sample themes include ethical perspectives, international education, work and family, and conflict management. Courses must be selected in consultation with the department adviser.
Kinesiology B.S.

Requirements for this program are current for Fall 2006.

Required credits to graduate with this degree: 120 to 125.

Required credits within the major: 54 to 59.

Degree: Bachelor of Science

The bachelor of science (B.S.) 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 fitness/wellness industries or the allied health sciences, such as physical and occupational therapy, medicine, and nursing. It can be used as preparation for the M.Ed./initial licensure program in physical education, which prepares students for Minnesota teaching licensure in K-12 physical education.

Admission Requirements

Students must complete 60 credits before admission to the program. Freshmen and transfer students are usually admitted to pre-major status before admission to this major.

A GPA above 2.00 is preferred for the following:

- 2.50 for students already admitted to the degree-granting college.
- 2.50 for students transferring from another University of Minnesota college.
- 2.50 for students transferring from outside the University.

For information about University of Minnesota admission requirements, visit the Office of Admissions Web site at http://admissions.tc.umn.edu.

Required Courses for Admission

Take one course from each of the following course groups. At least five of the six required prerequisite courses must be completed and/or in progress at the time of application.

**Biological Sciences**

- Biology Course with Lab
  - BIOL 1001 - Introductory Biology I: Evolutionary and Ecological Perspectives, BIOL SCI/L, ENVT (4.0 cr)
  - BIOL 1009 - General Biology, BIOL SCI/L (4.0 cr)
  - BIOL 1009H - Honors: General Biology, BIOL SCI/L, H (4.0 cr)
  - FSCN 1021 - Introductory Microbiology, BIOL SCI/L (4.0 cr)
  - PSSL 1131 - Principles of Biological Science, BIOL SCI/L (4.0 cr)
  - PSSL 1135 - Human Anatomy and Physiology, BIOL SCI/L (4.0 cr)

- Chemistry Course with Lab
  - CHEM 1011 - Introductory Chemistry: Lecture and Laboratory, PHYS SCI/L (4.0 cr)
  - CHEM 1021 - Chemical Principles I, ENVT, PHYS SCI/L (4.0 cr)
  - CHEM 1022 - Chemical Principles II, ENVT, PHYS SCI/L (4.0 cr)
  - CHEM 1031H - Honors Chemistry I, ENVT, PHYS SCI/L, H (4.0 cr)
  - CHEM 1032H - Honors Chemistry II, ENVT, PHYS SCI/L, H (4.0 cr)

- Physics Course with Lab
  - PHYS 1101W - Introductory College Physics I, PHYS SCI/L, WI (4.0 cr)
  - PHYS 1201W - Introductory Physics for Biology and Pre-medicine I, PHYS SCI/L, WI (4.0 cr)
  - PHYS 1301W - Introductory Physics for Science and Engineering I, PHYS SCI/L, WI (4.0 cr)
  - PHYS 1401V - Honors Physics I, PHYS SCI/L, WI, H (4.0 cr)

**Human Performance**

- Psychology
  - PSTL 1281 - General Psychology, SSCI (4.0 cr)
  - PSY 1001 - Introduction to Psychology, SSCI (4.0 cr)

- Speech Performance
  - COMM 1011 - Introduction to Public Speaking (3.0 cr)
  - COMM 1101H - Honors: Introduction to Public Speaking, H (3.0 cr)
  - COMM 1313W - Analysis of Argument, WI (3.0 cr)
  - PSTL 1461 - Oral Communication in the Public Sphere, C/PE (3.0 cr)
  - RHET 1223 - Oral Presentations in Professional Settings (3.0 cr)

- Statistics
  - EPSY 3264 - Basic and Applied Statistics, MATH (3.0 cr)
  - PSTL 1454 - Statistics, MATH (4.0 cr)
  - STAT 1001 - Introduction to the Ideas of Statistics, MATH (4.0 cr)
  - STAT 3011 - Introduction to Statistical Analysis, MATH (4.0 cr)

**General Requirements**

Recommended freshman writing course(s) for this program: ENGC 1011

**Program Requirements**

The following courses are strongly recommended, but not required, before admission to the program: KIN 3027 or INMD 3001, KIN 1871, and five physical activity courses (1 credit each) chosen from at least four of the following categories: aquatics, conditioning, weight training, dance, individual and dual sports/activities, team sports/activities. Students pursuing K-12 physical education licensure must complete additional requirements; consult with a faculty adviser.

**Required Courses**

- **Major Courses**
  - KIN 1871 - Introduction to Kinesiology (2.0 cr)
  - KIN 3112 - Introduction to Biomechanics (3.0 cr)
  - KIN 3131W - History and Philosophy of Sport, WI (3.0 cr)
  - KIN 3133 - Motor Control, Learning, and Development (3.0 cr)
  - KIN 3151 - Measurement, Evaluation, and Research in Kinesiology (3.0 cr)
  - KIN 4385 - Exercise Physiology (4.0 cr)
  - INMD 3001 - Human Anatomy (3.0 cr)
  - INMD 3301 - Human Anatomy (3.0 cr)
  - KIN 3027 - Human Anatomy for Kinesiology Students (3.0 cr)
  - KIN 3111 - Human Anatomy (2.0 cr)
  - KIN 3126W - Psychology and Sociology of Sport, WI (3.0 cr)
  - KIN 5126 - Sport Psychology (3.0 cr)
  - KIN 3385 - Human Physiology for Kinesiology Students (3.0 cr)
  - PHSL 3051 - Human Physiology (4.0 cr)

- **Electives**
  - Students must complete 6 credits in one of the sub-requirements.

  Take 15 or more credit(s) including 4 or more sub-requirement(s) from the following:

**Human Performance**

- Take 0 - 2 course(s) from the following:
  - HUMF 5722 - Human Factors Psychology (3.0 cr)
  - EPSY 3264 - Basic and Applied Statistics, MATH (3.0 cr)
  - PSTL 1454 - Statistics, MATH (4.0 cr)
  - STAT 1001 - Introduction to the Ideas of Statistics, MATH (4.0 cr)
  - STAT 3011 - Introduction to Statistical Analysis, MATH (4.0 cr)

**Sports Management**

- Take 0 - 2 course(s) from the following:
  - KIN 3003 - Introduction to Music and Dance (3.0 cr)
  - KIN 3004 - Introduction to Sports Administration (3.0 cr)
  - KIN 3005 - Introduction to Sports Management (3.0 cr)
KIN 5461 - Foundations of Sport Management (3.0 cr)
KIN 5601 - Sport Management Ethics and Policy (3.0 cr)
KIN 5631 - Programming and Promotion in Sport (3.0 cr)
KIN 5725 - Organization and Management of Physical Education and Sport (3.0 cr)
KIN 5801 - Legal Aspects of Sport and Recreation (4.0 cr)

Exercise Science
Take 0 - 2 course(s) from the following:
KIN 5122 - Applied Exercise Physiology (3.0 cr)
KIN 5141 - Nutrition for Health and Physical Performance (3.0 cr)
KIN 5385 - Exercise for Disease Prevention and Management (3.0 cr)
KIN 5435 - Advanced Theory and Techniques of Exercise Science (3.0 cr)
KIN 5485 - Advanced Electrocardiogram, Graded Exercise Testing, and Prescription (3.0 cr)

Sports Sociology/Psychology
Take 0 - 2 course(s) from the following:
KIN 5126 - Sport Psychology (3.0 cr)
KIN 5136 - Psychology of Coaching (3.0 cr)
KIN 5371 - Sport and Society (3.0 cr)
KIN 5375 - Competitive Sport for Children and Youth (3.0 cr)
KIN 5511 - Women in Sport and Leisure (3.0 cr)
KIN 5723 - Psychology of Sport Injury (3.0 cr)

Motor Control
Take 0 - 2 course(s) from the following:
KIN 5235 - Advanced Biomechanics II: Kinetics (3.0 cr)
KIN 5941 - Neural Basis of Movement (3.0 cr)
RSC 5135 - Advanced Biomechanics I: Kinematics (3.0 cr)
RSC 5841 - Rehabilitation Science Instrumentation and Methodology (4.0 cr)

CPR Certification
Students must complete CPR certification within one year before their program graduation date.
KIN 3113 - First Responder for Coaches and Athletic Trainers (3.0 cr)
or first aid and CPR certification.

Field Experience / Directed Study / Coaching
All upper division students are required to complete practical experiences, coaching, or directed study in the selected focus.
Take 10 or more credit(s) from the following:
KIN 3696 - Supervised Practical Experience (1.0-10.0 cr)
KIN 3993 - Directed Study in Kinesiology (1.0-10.0 cr)
KIN 3993H - Directed Study in Kinesiology, H (1.0-10.0 cr)
KIN 5196 - Practicum: Developmental/Adapted Physical Education (1.0-4.0 cr)
KIN 5697 - Student Teaching: Coaching (1.0-10.0 cr)

Program Sub-plans
Students are required to complete one of the following sub-plans. (Note: The honors sub-plan does not meet this requirement.) Honors students are required to complete one sub-plan plus the honors sub-plan.

Exercise Science
Complete 10-17 credits of KIN 1xxx-5xxx courses, approved by a faculty adviser.

Required Courses
Exercise Science
Students in non-teaching emphasis areas must complete 10-17 credits of KIN 1xxx-5xxx courses, approved by a faculty adviser.

Take 10 or more credit(s) from the following:
KIN 1xx
KIN 2xx
KIN 3xx
KIN 4xx
KIN 5xx

Physical Education Activity Courses
Take 5 or more course(s) including 4 or more sub-requirement(s) from the following:

Dance
Take 0 - 2 course(s) from the following:
DNCE 1001 - Modern Dance Technique 1 (1.0 cr)
DNCE 1002 - Modern Dance Technique 2 (1.0 cr)
DNCE 1010 - Modern Dance Technique 3 (2.0 cr)
DNCE 1020 - Modern Dance Technique 4 (2.0 cr)
DNCE 1101 - Ballet Technique 1 (1.0 cr)
DNCE 1102 - Ballet Technique 2 (1.0 cr)
DNCE 1110 - Ballet Technique 3 (2.0 cr)
DNCE 1201 - Jazz Technique 1 (1.0 cr)
DNCE 1202 - Jazz Technique 2 (1.0 cr)
DNCE 1210 - Jazz Technique 3 (1.0 cr)
DNCE 1220 - Jazz Technique 4 (1.0 cr)
DNCE 1301 - Tap Technique 1 (1.0 cr)
DNCE 1302 - Tap Technique 2 (1.0 cr)
DNCE 1311 - International Folk Dance 1 (1.0 cr)
DNCE 1312 - International Folk Dance 2 (1.0 cr)
DNCE 1312 - Ballroom 1 (1.0 cr)
DNCE 1322 - Ballroom 2 (1.0 cr)
DNCE 1331 - Yoga (1.0 cr)
DNCE 1332 - Yoga for Dancers (1.0 cr)
DNCE 3110 - Ballet Technique 5 (2.0 cr)
DNCE 3120 - Ballet Technique 6 (2.0 cr)
DNCE 3210 - Jazz Technique 5 (1.0 cr)
DNCE 3220 - Jazz Technique 6 (1.0 cr)
DNCE 3301 - Tap Technique 3 (1.0 cr)
DNCE 3302 - Tap Technique 4 (1.0 cr)
DNCE 3337 - Body Mind Centering (2.0 cr)

Aquatics
Take 0 - 2 course(s) from the following:
PE 1004 - Diving: Springboard (1.0 cr)
PE 1007 - Beginning Swimming (1.0 cr)
PE 1107 - Intermediate Swimming (1.0 cr)
PE 1205 - Scuba and Skin Diving (1.0 cr)
PE 1305 - Scuba Stress Rescue and Accident Management (1.0 cr)
PE 1306 - Lifeguard Training (1.0 cr)
PE 1411 - Water Safety Instructor (2.0 cr)

Conditioning/Weight Training
Take 0 - 2 course(s) from the following:
PE 1014 - Conditioning (1.0 cr)
PE 1015 - Weight Training (1.0 cr)
PE 1415 - Advanced Weight Training and Conditioning (1.0 cr)

Individual Sports
Take 0 - 2 course(s) from the following:
PE 1016 - Posture and Individual Exercise (1.0 cr)
PE 1022 - Whitewater Kayaking (2.0 cr)
PE 1029 - Handball (1.0 cr)
PE 1031 - Sabre Fencing (1.0 cr)
PE 1032 - Badminton (1.0 cr)
PE 1033 - Foil Fencing (1.0 cr)
PE 1034 - Judo (1.0 cr)
PE 1035 - Karate (1.0 cr)
PE 1036 - Racquetball (1.0 cr)
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PE 1037 - Squash Racquets (1.0 cr)
PE 1038 - Beginning Tennis (1.0 cr)
PE 1041 - Cycling (1.0 cr)
PE 1042 - Orienteering (1.0 cr)
PE 1043 - Beginning Horse Riding (1.0 cr)
PE 1044 - Self-Defense (1.0 cr)
PE 1045 - Rock Climbing (1.0 cr)
PE 1046 - Taekwondo (1.0 cr)
PE 1047 - Backpacking (2.0 cr)
PE 1048 - Bowling (1.0 cr)
PE 1053 - Ice Skating (1.0 cr)
PE 1055 - Golf (1.0 cr)
PE 1056 - Nordic (Cross-Country) Skiing (1.0 cr)
PE 1057 - Beginning Skiing (1.0 cr)
PE 1058 - Snowboarding (1.0 cr)
PE 1059 - Track and Field (1.0 cr)
PE 1065 - Beginning Tumbling and Gymnastics (1.0 cr)
PE 1133 - Intermediate Foil Fencing (1.0 cr)
PE 1135 - Intermediate Karate (1.0 cr)
PE 1136 - Intermediate Racquetball (1.0 cr)
PE 1138 - Intermediate Tennis (1.0 cr)
PE 1154 - Figure Skating (1.0 cr)
PE 1157 - Intermediate Skiing (1.0 cr)
PE 1165 - Intermediate Tumbling and Gymnastics (1.0 cr)

Team Sports
Take 0 - 2 course(s) from the following:
PE 1067 - Basketball (1.0 cr)
PE 1071 - Beginning Cricket (1.0 cr)
PE 1072 - Soccer (1.0 cr)
PE 1073 - Softball (1.0 cr)
PE 1074 - Beginning Volleyball (1.0 cr)
PE 1075 - Ice Hockey (1.0 cr)
PE 1174 - Intermediate Volleyball (1.0 cr)

Pre-Licensure
This track is for students planning to pursue the pre-physical education teaching emphasis.

Required Courses
Education Courses
CPSY 4303 - Adolescent Psychology (4.0 cr)
EDHD 5001 - Learning, Cognition, and Assessment (3.0 cr)
EDHD 5005 - School and Society (2.0 cr)
EDHD 5009 - Human Relations: Applied Skills for School and Society (1.0 cr)
KIN 3143 - Organization and Management of Sport (3.0 cr)
KIN 3175 - Gymnastics Coaching (1.0 cr)
KIN 3177 - Swimming and Diving Coaching (1.0 cr)
KIN 3178 - Tennis Coaching (1.0 cr)
KIN 3179 - Track and Field Coaching (1.0 cr)
KIN 3180 - Physical Education--Teaming and Trekking (2.0 cr)
KIN 3181 - Physical Education--An Adventure Experience (1.0 cr)
PE 1007 - Beginning Swimming (1.0 cr)
PE 1022 - Whitewater Kayaking (2.0 cr)
PE 1041 - Cycling (1.0 cr)
PE 1042 - Orienteering (1.0 cr)
PE 1043 - Beginning Horse Riding (1.0 cr)
PE 1045 - Rock Climbing (1.0 cr)
PE 1047 - Backpacking (2.0 cr)
PE 1053 - Ice Skating (1.0 cr)
PE 1056 - Nordic (Cross-Country) Skiing (1.0 cr)
PE 1057 - Beginning Skiing (1.0 cr)
PE 1107 - Intermediate Swimming (1.0 cr)
PE 1154 - Figure Skating (1.0 cr)
PE 1205 - Scuba and Skin Diving (1.0 cr)
REC 2115 - Outdoor and Camp Leadership (3.0 cr)

Conditioning/Weight Training
PE 1014 - Conditioning (1.0 cr)
PE 1015 - Weight Training (1.0 cr)

Team Sports
Take 3 or more course(s) from the following:
PE 1075 - Ice Hockey (1.0 cr)
KIN 3168 - Soccer Coaching (1.0 cr)
PE 1072 - Soccer (1.0 cr)
KIN 3169 - Volleyball Coaching (1.0 cr)
PE 1074 - Beginning Volleyball (1.0 cr)
PE 1174 - Intermediate Volleyball (1.0 cr)
KIN 3171 - Baseball Coaching (1.0 cr)
PE 1073 - Softball (1.0 cr)
KIN 3172 - Basketball Coaching (1.0 cr)
PE 1067 - Basketball (1.0 cr)

Pre-Physical Therapy

Pre-physical therapy students must consult their adviser for appropriate coursework.

Students in all non-teaching emphasis areas must complete 10-17 credits of KIN 1xxx-5xxx courses, approved by a faculty adviser.

Required Courses

Electives
Consult a faculty adviser for appropriate coursework.

Take 10 or more credit(s) from the following:
KIN 1xxx
KIN 2xxx
KIN 3xxx
KIN 4xxx
KIN 5xxx

Physical Education Activity Courses

Take 5 or more course(s) including 4 or more sub-requirement(s) from the following:

Dance

Take 0 - 2 course(s) from the following:
DNCE 1001 - Modern Dance Technique 1 (1.0 cr)
DNCE 1002 - Modern Dance Technique 2 (1.0 cr)
DNCE 1010 - Modern Dance Technique 3 (2.0 cr)
DNCE 1020 - Modern Dance Technique 4 (2.0 cr)
DNCE 1101 - Ballet Technique 1 (1.0 cr)
DNCE 1102 - Ballet Technique 2 (1.0 cr)
DNCE 1110 - Ballet Technique 3 (2.0 cr)
DNCE 1201 - Jazz Technique 1 (1.0 cr)
DNCE 1202 - Jazz Technique 2 (1.0 cr)
DNCE 1210 - Jazz Technique 3 (1.0 cr)
DNCE 1220 - Jazz Technique 4 (1.0 cr)
DNCE 1301 - Tap Technique 1 (1.0 cr)
DNCE 1302 - Tap Technique 2 (1.0 cr)
DNCE 1311 - International Folk Dance 1 (1.0 cr)
DNCE 1312 - International Folk Dance 2 (1.0 cr)
DNCE 1321 - Ballroom 1 (1.0 cr)
DNCE 1322 - Ballroom 2 (1.0 cr)
DNCE 1331 - Yoga (1.0 cr)
DNCE 1332 - Yoga for Dancers (1.0 cr)
DNCE 3110 - Ballet Technique 5 (2.0 cr)
DNCE 3120 - Ballet Technique 6 (2.0 cr)
DNCE 3210 - Jazz Technique 5 (1.0 cr)
DNCE 3220 - Jazz Technique 6 (1.0 cr)
DNCE 3301 - Tap Technique 3 (1.0 cr)
DNCE 3302 - Tap Technique 4 (1.0 cr)
DNCE 3337 - Body Mind Centering (2.0 cr)

Aquatics

Take 0 - 2 course(s) from the following:
PE 1004 - Diving: Springboard (1.0 cr)
PE 1007 - Beginning Swimming (1.0 cr)
PE 1107 - Intermediate Swimming (1.0 cr)
PE 1205 - Scuba and Skin Diving (1.0 cr)
PE 1305 - Scuba Stress Rescue and Accident Management (1.0 cr)
PE 1306 - Lifeguard Training (1.0 cr)
PE 1411 - Water Safety Instructor (2.0 cr)

Conditioning/Weight Training

Take 0 - 2 course(s) from the following:
PE 1014 - Conditioning (1.0 cr)
PE 1015 - Weight Training (1.0 cr)
PE 1415 - Advanced Weight Training and Conditioning (1.0 cr)

Individual Sports

Take 0 - 2 course(s) from the following:
PE 1016 - Posture and Individual Exercise (1.0 cr)
PE 1022 - Whitewater Kayaking (2.0 cr)
PE 1029 - Handball (1.0 cr)
PE 1031 - Sabre Fencing (1.0 cr)
PE 1032 - Badminton (1.0 cr)
PE 1033 - Foil Fencing (1.0 cr)
PE 1034 - Judo (1.0 cr)
PE 1035 - Karate (1.0 cr)
PE 1036 - Racquetball (1.0 cr)
PE 1037 - Squash Racquets (1.0 cr)
PE 1038 - Beginning Tennis (1.0 cr)
PE 1041 - Cycling (1.0 cr)
PE 1042 - Orienteering (1.0 cr)
PE 1043 - Beginning Horse Riding (1.0 cr)
PE 1044 - Self-Defense (1.0 cr)
PE 1045 - Rock Climbing (1.0 cr)
PE 1046 - Tae Kwon Do (1.0 cr)
PE 1047 - Backpacking (2.0 cr)
PE 1048 - Bowling (1.0 cr)
PE 1053 - Ice Skating (1.0 cr)
PE 1055 - Golf (1.0 cr)
PE 1056 - Nordic (Cross-Country) Skiing (1.0 cr)
PE 1057 - Beginning Skiing (1.0 cr)
PE 1058 - Snowboarding (1.0 cr)
PE 1059 - Track and Field (1.0 cr)
PE 1065 - Beginning Tumbling and Gymnastics (1.0 cr)
PE 1133 - Intermediate Foil Fencing (1.0 cr)
PE 1135 - Intermediate Karate (1.0 cr)
PE 1136 - Intermediate Racquetball (1.0 cr)
PE 1138 - Intermediate Tennis (1.0 cr)
PE 1154 - Figure Skating (1.0 cr)
PE 1157 - Intermediate Skiing (1.0 cr)
PE 1165 - Intermediate Tumbling and Gymnastics (1.0 cr)

Team Sports

Take 0 - 2 course(s) from the following:
PE 1067 - Basketball (1.0 cr)
PE 1071 - Beginning Cricket (1.0 cr)
PE 1072 - Soccer (1.0 cr)
PE 1073 - Softball (1.0 cr)
PE 1074 - Beginning Volleyball (1.0 cr)
PE 1075 - Ice Hockey (1.0 cr)
PE 1174 - Intermediate Volleyball (1.0 cr)

Leadership Minor

Educational Policy & Administration

Requirements for this program are current for Fall 2006.

Required credits in this minor: 16.

The undergraduate leadership minor is a 16-credit interdisciplinary program that helps students gain understanding and experience in multiple frameworks of leadership. The program develops the leadership and social change skills of undergraduates for their roles as citizens on the University campus and in the larger global community. This minor is a collaborative effort of the college’s department of Educational Policy and Administration (EDPA), the University’s Hubert H. Humphrey Institute, and the Office for Student Affairs.

Admission Requirements

Students must complete 1 course before admission to the program.
For information about University of Minnesota admission requirements, visit the Office of Admissions Web site at http://admissions.tc.umn.edu.

**Required Courses for Admission**

**Preparatory Courses**
- EDPA 1301W - Personal Leadership in the University, WI (3.0 cr)
- or PA 1961W - Personal Leadership in the University, WI (3.0 cr)

**Program Requirements**

**Required Courses**
- EDPA 3302W - Leadership, You, and Your Community, WI (3.0 cr)
- or PA 3961W - Leadership, You, and Your Community, WI (3.0 cr)
- EDPA 4303W - Leadership in the World, WI (3.0 cr)
- or PA 4961W - Self-developed Leadership in the World, WI (3.0 cr)

**Field Experience**
- EDPA 3402 - Leadership Minor: Field Experience (2.0 cr)
- or PA 3971 - Leadership Minor Field Experience (2.0 cr)

**Electives**
In consultation with the minor office, take at least 5 additional credits to complete the 16-credit requirement for the minor.

**Recreation, Park and Leisure Studies B.S.**

*Kinesiology, School of*

Requirements for this program are current for Fall 2006.

Required credits to graduate with this degree: 124 to 128.

Required credits within the major: 90.

Degree: Bachelor of Science.

The undergraduate program in recreation, park, and leisure studies prepares students to assume leadership, supervisory, or beginning administrative responsibilities in various park, recreation, leisure service, and sport management 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 combine recreation, park, and leisure studies with coursework in other disciplines, such as management, social work, physical and occupational therapy, creative arts, human growth and development, special education, and psychology. Students pursuing a B.S. degree may choose one of two options: leisure services management emphasis areas (includes commercial parks and recreation, outdoor education and recreation, and public parks and recreation sub-plans) or therapeutic recreation emphasis areas.

**Admission Requirements**

Students must complete 30 credits before admission to the program.

Students must complete at least 30 credits of the University’s liberal education requirements, including the freshman writing requirement; have earned a minimum overall GPA of 2.00, with preference given to applicants with a higher average; and have relevant education- or career-related experience, paid or volunteer. Appropriate related and major courses may be applied toward these requirements.

For information about University of Minnesota admission requirements, visit the Office of Admissions Web site at http://admissions.tc.umn.edu.

**General Requirements**

Recommended freshman writing course(s) for this program:
- ENGC 1011

**Program Requirements**

Requirements include a minimum 2.00 GPA and no grade lower than C- for major courses with the REC designator. A minimum grade of C- is also required for general psychology.

**Required Courses**

**Foundation Courses**
For additional college requirements, consult with an SPS program adviser.

*Take 3 or more course(s) from the following:*
- PE 1xxx
- COMM 1101 - Introduction to Public Speaking (3.0 cr)
- or COMM 1313W - Analysis of Argument, WI (3.0 cr)
- or RHET 1223 - Oral Presentations in Professional Settings (3.0 cr)
- PSTL 1211 - People and Problems, CD, SSCI (4.0 cr)
- or SOC 1001 - Introduction to Sociology, CD, SSCI (4.0 cr)
- PSTL 1281 - General Psychology, SSCI (4.0 cr)
- or PSY 1001 - Introduction to Psychology, SSCI (4.0 cr)
- PUBH 3004 - Basic Concepts in Personal and Community Health (4.0 cr)
- or take the following course pair:
  - PUBH 3001 - Personal and Community Health (2.0 cr)
  - PUBH 3003 - Fundamentals of Alcohol and Drug Abuse (2.0 cr)

**Major Courses**
- REC 1501 - Orientation to Leisure and Recreation (3.0 cr)
- REC 3281 - Research and Evaluation in Recreation, Park, and Leisure Studies (4.0 cr)
- REC 3541W - Recreation Programming, WI (3.0 cr)
- REC 3551 - Administration and Finance of Leisure Services (4.0 cr)
- REC 3601W - Leisure and Human Development, WI (3.0 cr)
- REC 3796 - Senior Internship in Recreation, Park, and Leisure Studies (1.0-12.0 cr)
- REC 5271 - Community Leisure Services for Persons with Disabilities (3.0 cr)

**Program Sub-plans**
Students are required to complete one of the following sub-plans.

**Commercial Parks and Recreation**

**Required Courses**

**Additional Foundation Courses**
For additional college requirements, consult with an SPS program adviser.
- PSTL 1233 - U.S. Government and Politics, C/PE, SSCI (4.0 cr)
- or POL 1001 - American Democracy in a Changing World, C/PE, SSCI (4.0 cr)
- Complete 3 credits from ADED, ASL, BIE, CI, CPSY, EDHD, EDPA, EPSY, HRD, WHRE, YOST
- ECON 1101 - Principles of Microeconomics, IP, SSCI (4.0 cr)
- or APEC 1101 - Principles of Microeconomics, SSCI (3.0 cr)
Commercial Parks and Recreation Focus
Take 16 credits in recreation courses related to an emphasis area, selected in consultation with a major adviser.

**Required Courses**
- REC 5191 - Commercial Recreation and Tourism (3.0 cr)
- REC 5801 - Legal Aspects of Sport and Recreation (4.0 cr)

**Take 9 or more credit(s) from the following:**
- REC 3xx
- REC 4xx
- REC 5xx

**Supporting Program**
No more than three 1xxx courses, selected in consultation with an adviser, may count toward completing the sub-plan.

**Take 24 or more credit(s) including 3 or more sub-requirement(s) from the following:**

**Marketing and Management**
- ACCT 2050 - Introduction to Financial Reporting (4.0 cr)
- BIE 5011 - Introduction to Computer Applications (3.0 cr)
- BLAW 3058 - The Law of Contracts and Agency (4.0 cr)
- MGMT 3001 - Fundamentals of Management (3.0 cr)
- MKTG 3001 - Principles of Marketing (3.0 cr)

**Economics**
- APEC 1102 - Principles of Macroeconomics, IP, SSCI (3.0 cr) or ECON 1102 - Principles of Macroeconomics, IP, SSCI (4.0 cr)

**Electives**
- Take 3 or more credit(s) from the following:
  - BLAW 3xx
  - MGMT 3xx
  - MKTG 3xx

Outdoor Education and Recreation

**Required Courses**

**Additional Foundation Courses**
For additional college requirements, consult with an SPS program adviser:
- APEC 1101 - Principles of Microeconomics, SSCI (3.0 cr)
- or ECON 1101 - Principles of Microeconomics, IP, SSCI (4.0 cr)
- PSTL 1233 - U.S. Government and Politics, C/PE, SSCI (4.0 cr) or POL 1001 - American Democracy in a Changing World, C/PE, SSCI (4.0 cr)
- Complete 3 credits from ADED, ASL, BIE, CI, CPSY, EDHD, EDPA, EPSY, HRD, WHRE, YOST

**Outdoor Education and Recreation Focus**
- REC 2151 - Outdoor and Camp Leadership (3.0 cr)
- REC 5301 - Wilderness and Adventure Education (4.0 cr)
- REC 5311 - Programming Outdoor and Environmental Education (3.0 cr)
- REC 5161 - Recreation Land Policy (3.0 cr)
- REC 5801 - Legal Aspects of Sport and Recreation (4.0 cr)

**Supporting Program**
Take 24 or more credit(s) including 2 or more sub-requirement(s) from the following:

**Marketing and Management**
- BIE 5011 - Introduction to Computer Applications (3.0 cr)
- BLAW 3058 - The Law of Contracts and Agency (4.0 cr)
- MGMT 3001 - Fundamentals of Management (3.0 cr)
- MKTG 3001 - Principles of Marketing (3.0 cr)

**Economics**
- APEC 1102 - Principles of Macroeconomics, IP, SSCI (3.0 cr) or ECON 1102 - Principles of Macroeconomics, IP, SSCI (4.0 cr)

**Electives**
- Take 4 or more credit(s) from the following:
  - ACCT 2050 - Introduction to Financial Reporting (4.0 cr)
  - APEC 4311 - Tourism Development: Principles, Processes, Policies (3.0 cr)
  - POL 3321 - Issues in American Public Policy, C/PE (3.0 cr)
  - RRM 4232W - Managing Recreational Lands, ENVT, WI (4.0 cr)

Therapeutic Recreation

Therapeutic recreation emphasis areas include community-based or clinical-based recreation. (Completion of this program meets the requirements for certification by the National Council on Therapeutic Recreation Certification.)

Additional offerings include a coaching certificate and a coaching minor.
To become professionally certified as a therapeutic recreation specialist, specific courses also are required in the therapeutic recreation option, including abnormal psychology, anatomy, and physiology.

**Required Courses**

**Additional Foundation Courses**

EPSY 5401 - Counseling Procedures (3.0 cr)

or CPSY 2301 - Introductory Child Psychology, SSCI (4.0 cr)

KIN 3027 - Human Anatomy for Kinesiology Students (3.0 cr)

PSY 3604 - Introduction to Abnormal Psychology (3.0 cr)

COMM 3411 - Introduction to Small Group Communication (3.0 cr)

or EPSY 5151 - Cooperative Learning (3.0 cr)

or CPSY 5434 - Counseling Adults in Transition (3.0 cr)

PHSL 1001 - Human Physiology (3.0 cr)

or PHSL 3051 - Human Physiology (4.0 cr)

**Therapeutic Recreation Focus**

Take 16 credits in recreation courses related to an emphasis area, selected in consultation with a major adviser.

REC 5211 - Introduction to Therapeutic Recreation (3.0 cr)

REC 5215 - Assess and Monitor Patient/Client Functioning in Recreation Therapy (3.0 cr)

REC 521W - Comprehensive Therapeutic Recreation Services Development and Management, WI (4.0 cr)

REC 5231 - Therapeutic Recreation and Diagnostic Groups (3.0 cr)

Take 3 or more credit(s) from the following:

REC 3993 - Directed Study in Recreation, Park, and Leisure Studies (1.0-9.0 cr)

REC 5241 - Functional Intervention: Recreation Therapy in Geriatric Care (3.0 cr)

REC 5900 - Special Topics: Contemporary Issues in Leisure Services (1.0-12.0 cr)

**Supporting Program**

No more than three 1xxx courses, selected in consultation with an adviser, may count toward completing the sub-plan.

Take 24 or more credit(s) including 5 or more sub-requirement(s) from the following:

**Facilitation and Communication**

Take 1 or more course(s) from the following:

ASL 1701 - American Sign Language I (4.0 cr)

EPSY 5609 - Family-Centered Services (2.0 cr)

SOC 4102 - Criminology (3.0 cr)

SOC 4105 - Sociology of Punishment and Corrections (3.0 cr)

**Development and Behavior**

Take 1 or more course(s) from the following:

CPSY 4303 - Adolescent Psychology (4.0 cr)

CPSY 4343 - Cognitive Development (4.0 cr)

KIN 3133 - Motor Control, Learning, and Development (3.0 cr)

PSY 4501 - Psychology of Women (3.0 cr)

PSY 5206 - Social Psychology and Health Behavior (3.0 cr)

**Child Development**

Take 1 or more course(s) from the following:

CPSY 4311 - Behavioral and Emotional Problems of Children (4.0 cr)

CPSY 4313 - Disabilities and Development (4.0 cr)

**Human Growth and Development**

Take 1 or more course(s) from the following:

CPSY 4331 - Social and Personality Development (4.0 cr)

EPSY 5115 - Psychology of Adult Learning and Instruction (3.0 cr)

NURS 3600 - Life Span, Growth, and Development I (2.0 cr)

PUBH 6040 - Dying and Death in Contemporary Society: Implications for Intervention (2.0 cr)

**Related Program Areas**

Take 1 or more course(s) from the following:

EPSY 5674 - Techniques of Orientation, Mobility, and Independence for Students with Visual Disabilities (3.0 cr)

KIN 3113 - First Responder for Coaches and Athletic Trainers (3.0 cr)

KIN 3114 - Prevention and Care of Athletic Injuries (3.0 cr)

MUED 1801 - Introduction to Music Therapy (2.0 cr)

PHAR 5201 - Health Sciences Applied Terminology (2.0 cr)

OT 5313 - Therapeutic Occupation (4.0 cr)

REC 2151 - Outdoor and Camp Leadership (3.0 cr)

REC 5311 - Programming Outdoor and Environmental Education (3.0 cr)

RSC 5135 - Advanced Biomechanics I: Kinematics (3.0 cr)

**Social Justice Minor**

**School of Social Work**

Requirements for this program are current for Fall 2006.

Required credits in this minor: 18.

The social justice minor offers undergraduate students the opportunity to theorize about the meanings of social justice and practice “doing” social justice advocacy in community organizations. The minor is an interdisciplinary, cross-collegiate undergraduate program. Students create socially just communities and a respectful space for all opinions in the dialogue-based classrooms. Teaching faculty, students, and community groups become partners in creating and sharing in an authentic collective learning experience. The program is based on the belief in equity and fairness in every aspect of human experience and the importance of recognizing the struggles for liberation and the social movements of many peoples globally.

**Admission Requirements**

**Minor Requirements**

The social justice minor requires three core courses (12 credits), all of which include 30 hours of service learning in social justice organizations, and 6 credits of elective courses.

**Required Courses**

**Core Courses**

These courses include 30 hours of service learning in social justice organizations.

SW 2501W - Introduction to Social Justice, C/PE, WI (4.0 cr)

SW 3501 - Theories and Practices of Social Change Organizing, SSCI, C/PE (4.0 cr)

SW 4501 - Senior Seminar in Social Justice (4.0 cr)

**Electives**

Take 6 or more credit(s) from the following:

AFRO 3120 - Social and Intellectual Movements in the African Diaspora (3.0 cr)

AFRO 3251W - Sociological Perspectives on Race, Class, and Gender, CD, SSCI, WI (3.0 cr)

AFRO 3426 - African Americans, Social Policy, and the Welfare State, CD (3.0 cr)

AFRO 3866 - The Civil Rights and Black Power Movement, 1954-1984, C/PE, CD (3.0 cr)

AMIN 4501 - Law, Sovereignty, and Treaty Rights, C/PE (3.0 cr)

AMIN 4515 - Contemporary American Indian Movements (3.0 cr)

AMST 3001 - Contemporary Perspectives on Asian America, CD (3.0 cr)

AAS 1101 - Imagining Asian America, C/PE, CD (3.0 cr)

AAS 3501 - Asian America Through Arts and Culture, OH, CD (3.0 cr)

CHIC 1112 - Introduction to Chicana/o Studies: Critical Paradigms, CD, HP (3.0 cr)

CHIC 3212 - La Chicana, CD (3.0 cr)

CHIC 3374 - Migrant Farmworkers in the U.S.: Families, Work, and Advocacy, SSCI, CD (3.0 cr)

CHIC 4275 - Theory in Action: Community Engagement in a Social Justice Framework, C/PE (3.0 cr)

Additional Foundation Courses

- CPSY 4311 - Behavioral and Emotional Problems of Children (4.0 cr)
- CPSY 4313 - Disabilities and Development (4.0 cr)
- CPSY 4331 - Social and Personality Development (4.0 cr)
- EPSY 5115 - Psychology of Adult Learning and Instruction (3.0 cr)
- NURS 3600 - Life Span, Growth, and Development I (2.0 cr)
- PUBH 6040 - Dying and Death in Contemporary Society: Implications for Intervention (2.0 cr)
The sport studies major focuses on contemporary sport as a product of social, psychological, and economic phenomena. Because of its prominent role in our culture, economy, and societal behavior, sport is a popular subject for academic inquiry. Graduates may find employment in sport marketing and management, coaching, sport administration, and sport or other fitness-related occupations. The program also prepares students for graduate study in sport management.

Coursework in sport studies addresses such topics as ethics and sport, psychology of sport performance, sport as a sociocultural phenomenon, sport management, sport marketing and promotion, and event management.

Features of the program include a 10-credit experiential course, a senior seminar, and a set of focused electives. Each student selects electives from one of the following three emphasis areas: coaching, sport management, or youth services/development.

Additional offerings include a coaching certificate and a coaching minor.

**Admission Requirements**

Students must complete 60 credits before admission to the program.

Admission preference is given to students who have completed liberal education requirements and have an overall GPA of 2.00 before the admission deadline. Because of a large number of applicants, a 2.50 GPA is recommended.

Completion of SPST 1701 is recommended before admission to the program.

For information about University of Minnesota admission requirements, visit the Office of Admissions Web site at [http://admissions.tc.umn.edu](http://admissions.tc.umn.edu).

**Sport Studies B.S.**

**Kinesiology, School of**

Requirements for this program are current for Fall 2006.

Required credits to graduate with this degree: 120.

Required credits within the major: 71.

This program requires summer terms.

Degree: Bachelor of Science.

The sport studies major focuses on contemporary sport as a product of social, psychological, and economic phenomena. Because of its prominent role in our culture, economy, and societal behavior, sport is a popular subject for academic inquiry. Graduates may find employment in sport marketing and management, coaching, sport administration, and sport or other fitness-related occupations. The program also prepares students for graduate study in sport management.

Coursework in sport studies addresses such topics as ethics and sport, psychology of sport performance, sport as a sociocultural phenomenon, sport management, sport marketing and promotion, and event management.

Features of the program include a 10-credit experiential course, a senior seminar, and a set of focused electives. Each student selects electives from one of the following three emphasis areas: coaching, sport management, or youth services/development.

Additional offerings include a coaching certificate and a coaching minor.

**Admission Requirements**

Students must complete 60 credits before admission to the program.

Admission preference is given to students who have completed liberal education requirements and have an overall GPA of 2.00 before the admission deadline. Because of a large number of applicants, a 2.50 GPA is recommended.

Completion of SPST 1701 is recommended before admission to the program.

For information about University of Minnesota admission requirements, visit the Office of Admissions Web site at [http://admissions.tc.umn.edu](http://admissions.tc.umn.edu).

**Program Requirements**

**Required Courses**

**Foundation Courses**

Take a minimum of 24 credits from this group, including 6 credits of education and human development electives (excluding courses with KIN, REC, or SPST designators). With the guidance of an EPS advisor, choose from courses listed on the Web page [http://www.education.umn.edu/catalogs/course-desc/default.html](http://www.education.umn.edu/catalogs/course-desc/default.html).

PE 1xxx
COMM 1101 - Introduction to Public Speaking (3.0 cr)
or COMM 1313W - Analysis of Argument, WI (3.0 cr)
or COMM 1313W - Analysis of Argument, WI (3.0 cr)
or PSTL 1461 - Oral Communication in the Public Sphere, C/PE (3.0 cr)
or RHET 1223 - Oral Presentations in Professional Settings (3.0 cr)
PSTL 1211 - People and Problems, CD, SSCI (4.0 cr)
or SOC 1001 - Introduction to Sociology, CD, SSCI (4.0 cr)
PSTL 1281 - General Psychology, SSCI (4.0 cr)
or PSY 1004W - Introduction to Psychology, SSCI (4.0 cr)
PUBH 3001 - Personal and Community Health (2.0 cr)
or take the following course pair:
PUBH 3001 - Personal and Community Health (2.0 cr)
PUBH 3003 - Fundamentals of Alcohol and Drug Abuse (2.0 cr)
Take at least 6 credits from ADED, AFEE, AGED, ASL, BIE, CI, CPSY, EDHD, EDP, EPSY, HRD, WHRE, YOST.

**Major Courses**

Completion of SPST 1701 is recommended before admission to the program. All other major core courses must be completed after program admission.

SPST 1701 - Introduction to Sport Studies (2.0 cr)
SPST 3143 - Organization and Management of Sport (3.0 cr)
SPST 3501 - Sport in a Diverse Society (3.0 cr)
SPST 3601 - Ethics and Values in Sport (2.0 cr)
SPST 3611 - Sport Psychology (2.0 cr)
SPST 3861 - Legal Aspects of Sport (2.0 cr)
SPST 3881W - Senior Seminar in Sport Studies, WI (3.0 cr)
SPST 3996 - Practicum: The Sport Experience (1.0-10.0 cr)
Program Sub-plans
Students are required to complete one of the following sub-plans.

Coaching
The coaching certification can be completed within this track.

Required Courses
Take 20 or more credit(s) from the following:
- FSCN 1112 - Principles of Nutrition, ENVT (3.0 cr)
- SPST 3111 - Sports Facilities (2.0 cr)
- SPST 3112 - Applied Sport Science (2.0 cr)
- SPST 3621 - Applied Sport Psychology (2.0 cr)
- SPST 3641 - Training and Conditioning for Sport (2.0 cr)
- BIE 5011 - Introduction to Computer Applications (3.0 cr)
- or PSTL 1571 - Introduction to Microcomputer Applications (4.0 cr)

Coaching Certification
Completion of the following courses meets requirements for coaching certification or coaching focus.

- KIN 3113 - First Responder for Coaches and Athletic Trainers (3.0 cr)
- KIN 3133 - Motor Control, Learning, and Development (3.0 cr)
- KIN 5697 - Student Teaching: Coaching (1.0-10.0 cr)

Human Anatomy
- INMD 3001 - Human Anatomy (3.0 cr)
- or KIN 3027 - Human Anatomy for Kinesiology Students (3.0 cr)
- or KIN 3111 - Human Anatomy (2.0 cr)

Coaching Certification 1
Take 2 or more course(s) from the following:
- KIN 3112 - Introduction to Biomechanics (3.0 cr)
- KIN 4385 - Exercise Physiology (4.0 cr)
- KIN 5126 - Sport Psychology (3.0 cr)
- KIN 5136 - Psychology of Coaching (3.0 cr)
- SPST 3621 - Applied Sport Psychology (2.0 cr)
- SPST 3641 - Training and Conditioning for Sport (2.0 cr)

Coaching Certification 2
Take 2 or more course(s) from the following:
- KIN 3168 - Soccer Coaching (1.0 cr)
- KIN 3169 - Volleyball Coaching (1.0 cr)
- KIN 3171 - Baseball Coaching (1.0 cr)
- KIN 3172 - Basketball Coaching (1.0 cr)
- KIN 3173 - Football Coaching (1.0 cr)
- KIN 3174 - Golf Coaching (1.0 cr)
- KIN 3175 - Gymnastics Coaching (1.0 cr)
- KIN 3176 - Ice Hockey Coaching (1.0 cr)
- KIN 3177 - Swimming and Diving Coaching (1.0 cr)
- KIN 3178 - Tennis Coaching (1.0 cr)
- KIN 3179 - Truck and Field Coaching (1.0 cr)
- KIN 3181 - Wrestling Coaching (1.0 cr)
- KIN 5720 - Special Topics in Kinesiology (1.0-8.0 cr)

Sport Management
Required Courses
Take 20 or more credit(s) from the following:
- BIE 3061 - Professional Sales Management (3.0 cr)
- BLAW 3058 - The Law of Contracts and Agency (4.0 cr)
- BLAW 5078 - Partnerships and Corporations (2.0 cr)
- COMM 3201 - Introduction to Electronic Media Production (4.0 cr)
- COMM 3441 - Introduction to Organizational Communication (3.0 cr)
- ECON 1102 - Principles of Macroeconomics, IP, SSCI (4.0 cr)
- PSTL 1511 - Introduction to Business and Society, SSCI (4.0 cr)
- PSTL 1513 - Small Business Fundamentals With E-Business Applications (3.0 cr)
- HRD 5201 - Training and Development of Human Resources (3.0 cr)
- HRIR 3021 - Human Resource Management and Industrial Relations (3.0 cr)
- KIN 5115 - Event Management in Sport (3.0 cr)
- MGMT 3001 - Fundamentals of Management (3.0 cr)
- MKTG 3001 - Principles of Marketing (3.0 cr)
- SPST 3111 - Sports Facilities (2.0 cr)
- SPST 3421 - Business of Sport (2.0 cr)
- SPST 3631 - Sport Promotion and Programming (3.0 cr)
- ACCT 2050 - Introduction to Financial Reporting (4.0 cr)
- or PSTL 1540 - Accounting Fundamentals I (3.0 cr)
- or PSTL 1571 - Introduction to Microcomputer Applications (4.0 cr)

Youth Services/Development
Required Courses
- Youth Services/Development List
  Take 20 or more credit(s) from the following:
  - CPSY 4303 - Adolescent Psychology (4.0 cr)
  - CPSY 4331 - Social and Personality Development (4.0 cr)
  - CPSY 4334W - Children, Youth in Society, C/PE, WI (4.0 cr)
  - EDPA 5372 - Youth in Modern Society (3.0 cr)
  - FSOS 1101 - Intimate Relationships, CD, SSCI (4.0 cr)
  - KIN 1989 - Health and Society (3.0 cr)
  - KIN 5115 - Event Management in Sport (3.0 cr)
  - KIN 5375 - Competitive Sport for Children and Youth (3.0 cr)
  - REC 1501 - Orientation to Leisure and Recreation (3.0 cr)
  - REC 2151 - Outdoor and Camp Leadership (3.0 cr)
  - REC 3541W - Recreation Programming, WI (3.0 cr)
  - SPST 3112 - Applied Sport Science (2.0 cr)
  - SPST 3631 - Sport Promotion and Programming (3.0 cr)
  - SW 2001 - Introduction to Social Welfare and Community Services, C/PE, WI (4.0 cr)
  - YOST 2001 - The Everyday Lives of Youth, SSCI (4.0 cr)
  - YOST 5031 - Youth in the World (3.0 cr)
  - YOST 5402 - Youth Policy: Enhancing Healthy Development in Everyday Life (4.0 cr)
- or PSTL 1511 - Introduction to Computer Applications (3.0 cr)
- or PSTL 1571 - Introduction to Microcomputer Applications (4.0 cr)

Technology Education B.S.

Work and Human Resource Education
Requirements for this program are current for Fall 2006.
Required credits to graduate with this degree: 120.
Required credits within the major: 71.
This program requires summer terms.
Degree: Bachelor of Science.

This program prepares students to meet Minnesota state licensure requirements for teaching technology education to grades 5-12.
The curriculum surveys the broad range of technology use and application in the areas of manufacturing, construction, transportation, communication, energy, and power. Coursework includes liberal education, technology education, and professional/clinical experiences and student teaching.
Graduate study in this field is available. A career and technical education certificate is also available.
Admission Requirements

Students must complete 60 credits before admission to the program.

A GPA above 2.00 is preferred for the following:

- 2.50 for students already admitted to the degree-granting college.
- 2.50 for students transferring from another University of Minnesota college.
- 2.50 for students transferring from outside the University.

For information about University of Minnesota admission requirements, visit the Office of Admissions Web site at http://admissions.tc.umn.edu.

General Requirements

Recommended freshman writing course(s) for this program: RHET 1101

Program Requirements

A minimum 2.00 GPA with no grade lower than C- is required for major courses with the following designators: BIE, EDHD, HRD, and WHRE. A minimum grade of C- is also required for general psychology. Students must have a minimum 2.50 GPA to meet state licensure requirements.

Required Courses

Major Courses

BA 3033W is a required course for students who are also completing a business minor through the University’s Carlson School of Management.

BA 3033W - Business Communication, WI (3.0 cr)
or RHET 3562W - Technical and Professional Writing, WI (4.0 cr)
COMM 1101 - Introduction to Public Speaking (3.0 cr)
or PSTL 1461 - Oral Communication in the Public Sphere, C/PE, WI (3.0 cr)
or RHET 1223 - Oral Presentations in Professional Settings (3.0 cr)
PSTL 1281 - General Psychology, SSCI (4.0 cr)
or PSY 1001 - Introduction to Psychology, SSCI (4.0 cr)
MATH 1001 - Excursions in Mathematics, MATH (3.0 cr)
or MATH 1031 - College Algebra and Probability, MATH (3.0 cr)
WHRE 5011W - Technology and Public Ethics, C/PE, WI (3.0 cr)
or WHRE 5011W - Technology and Public Ethics, C/PE, WI (3.0 cr)

Technical Skills

A limited number of technical college credits can be applied to:
BIE 3151 or BIE 5151.

BIE 3111 - Exploring Technology Systems (3.0 cr)
BIE 3113 - Manufacturing Technology (3.0 cr)
BIE 3114 - Construction Technology (3.0 cr)
BIE 3122 - Communication and Information Technology (3.0 cr)
BIE 3123 - Energy, Power, and Transportation Technology (3.0 cr)
BIE 5101 - Technological Problem Solving (3.0 cr)
BIE 5344 - Facilities Management in Business and Industry (3.0 cr)
BIE 3112 - Technical Drawing and Production Technologies (3.0 cr)
or AFEE 3112 - Technical Drawing and Production Technologies (3.0 cr)
WHRE 3011W - Introduction to Technology and Public Ethics, C/PE, WI (3.0 cr)
WHRE 5011W - Technology and Public Ethics, C/PE, WI (3.0 cr)

Take 1 or more course(s) totaling 9 or more credit(s) from the following:

- BIE 3151 - Technical Development: Advanced (1.0-32.0 cr)
- BIE 5151 - Technical Development: Specialized (1.0-12.0 cr)
- BIE 5596 - Occupational Experience in Business and Industry (1.0-10.0 cr)

BIE 5011 - Introduction to Computer Applications (3.0 cr)
BIE 5365 - Curriculum Development in Technology Education (3.0 cr)
WHRE 5661 - Instructional Methods for Business and Industry (2.0 cr)

Professional/Clinical Studies

CT 5452 - Reading in the Content Areas for Initial Licensure Candidates (1.0 cr)
EDHD 5001 - Learning, Cognition, and Assessment (3.0 cr)
EDHD 5003 - Developmental and Individual Differences in Educational Contexts (3.0 cr)
EDHD 5005 - School and Society (2.0 cr)
EDHD 5007 - Technology for Teaching and Learning (1.5 cr)
EDHD 5009 - Human Relations: Applied Skills for School and Society (1.0 cr)
PBH 3003 - Fundamentals of Alcohol and Drug Abuse (2.0 cr)
or PUBH 3005 - Fundamentals of Alcohol and Drug Abuse for Teacher Education (1.0 cr)

WHRE 5696 - Teaching Internship: Introduction (1.0 cr)
WHRE 5697 - Teaching Internship: School and Classroom Settings (2.0 cr)

Youth Studies Minor

School of Social Work

Requirements for this program are current for Fall 2006. Required credits in this minor: 16.

The youth studies minor is a 16-credit undergraduate minor that addresses youth as an idea, youth as young people, youthhood as the everyday lives of young people, and the responses of communities to this population.

Participants in the youth studies minor learn about and critically analyze at a beginning level the families of ideas, models, concepts, discourses, and ways of understanding, responding to, and working with young people. Participants craft their unique program from among the required designated courses to prepare for graduate training/education in the many scholarly and youth work professional fields. Participants do not become trained workers with youth nor receive any certification to do youth work in any participating field.

Admission Requirements

For information about University of Minnesota admission requirements, visit the Office of Admissions Web site at http://admissions.tc.umn.edu.

Program Requirements

Minor Courses

YOST 2002W - Introduction to Youth Studies: Understanding Youth, Young People, Youthhood, and Youth Work, WI (4.0 cr)
YOST 4002W - Constructing Personal Models of Youth Scholarship and Youth Work (4.0 cr)

Take 8 or more credit(s) from the following:

CPSY 4303 - Adolescent Psychology (4.0 cr)
CPSY 4329 - Biological Foundations of Development (4.0 cr)
CPSY 4331 - Social and Personality Development (4.0 cr)
CPSY 4334W - Children, Youth in Society, C/PE, WI (4.0 cr)
CPSY 4336W - Development and Interpersonal Relations, WI (4.0 cr)
FSOS 4155 - Parent-Child Relationships (3.0 cr)
REC 2151 - Outdoor and Camp Leadership (3.0 cr)
YOST 2001 - The Everyday Lives of Youth, SSCI (4.0 cr)
YOST 3001 - Introduction to History & Philosophy of Youthwork (4.0 cr)
YOST 3003 - Bridging Theories, Research, Practices, and Observations about Youth Development and Youth Work (1.0 cr)
YOST 3101 - Introduction to Youthwork (4.0 cr)