College of Education and Human Service Professions (CEHSP)

**Dean:** Paul N. Deputy
125 Bohannon Hall, 218-726-6537

**Associate Dean:** Jackie Millslagle
117 Bohannon Hall, 218-726-7191

**Associate Dean:** Thomas Peacock
125 Bohannon Hall, 218-726-7865

The mission of the College of Education and Human Service Professions (CEHSP) is to prepare students for careers in the education and human service fields. To achieve this, the college dedicates itself to the goal of excellence in learning, teaching, research, advising, and service. It strives to engage and empower students, seeking to develop their potential, prepare them to interact with diverse communities at home and around the world, and add depth to their educational experience. The college’s motto, “to serve families and develop human potential” keeps this mission before faculty and students alike.

The office of the dean is responsible for programmatic leadership, curricula, and for recommending graduates for licensure. Five departments work cooperatively to achieve the purposes of the college in teaching, research, and service:

- **Education**
- **Psychology**
- **Health, Physical Education, and Recreation**
- **Communication Sciences and Disorders**
- **Social Work**

The mission is further served by contributions from these offices and centers:

- **Eni–gikendaasoyang**—Center for Indigenous Knowledge Revitalization
- **American Indian Learning Resource Center** (AILRC)
- **Center for Environmental Education** (CEED)
- **Darland Connection**
- **Field Experiences (Education)**
- **Student Affairs**
- **UMD Children’s Place**

**Teacher Licensure Programs**

The teacher licensure programs have been granted continuing accreditation by the National Council for Accreditation of Teacher Education and the Minnesota Board of Teaching.

**Admission to Upper Division Programs**

Students are admitted to CEHSP as pre-majors. Admission to a major is contingent upon submission of evidence that the student has completed prerequisite courses, earned a satisfactory GPA, taken appropriate tests, made plans for the remainder of the academic program, and in some majors, participated in a personal interview to review these matters. The individual departments set standards for admission, and students should consult their adviser or department office for information. Once admitted, students remain in the program as long as minimum GPA requirements for graduation are maintained. Students who fall below the minimum are monitored by their advisers.

**Academic Standing**

**Good Academic Standing**

Students who have 20 or more completed credits (including credits outside the University and credits by exam) must have a 2.00 minimum cumulative University of Minnesota GPA to be in good academic standing in CEHSP. Students who have attempted fewer than 20 credits (at UMD or elsewhere) must have a 1.80 minimum cumulative University of Minnesota GPA to be in good academic standing. Credits taken outside the University are not calculated into the University of Minnesota GPA.

**Probation**

Students with a cumulative University of Minnesota GPA lower than that required for good academic standing are placed on academic probation. Students on academic probation have one semester of attendance to attain the overall cumulative GPA required to avoid dismissal. Students should consider a lighter load or repeating courses with D or F grades to improve their GPA. Probationary students are strongly encouraged to seek advice from their faculty adviser or staff in the college’s Student Affairs Office.

**Dismissal**

Students with a first-term GPA below 1.0 are subject to immediate dismissal. Students may petition to be readmitted on a probationary basis. If the petition is granted, students will be placed under a contractual agreement with CEHSP Student Affairs. All other students who fail to attain the required minimum cumulative University of Minnesota GPA after the semester of initial probation are subject to dismissal.

Exterminating circumstances could be taken into consideration at the request of the student before dismissal. Dismissed students are notified immediately.

**Readmission After Dismissal**

Readmission is not granted before one academic year has passed from the date of dismissal. Readmission is granted when the required minimum cumulative University of Minnesota GPA for good academic standing has been attained through UMD Continuing Education. Students who have been academically dismissed must receive permission from the college office in order to register through Continuing Education. Students may not make up grade point deficiencies outside the University of Minnesota. Petition information is available at the CEHSP Student Affairs Office, 113 Bohannon Hall.

**Appeal and Petition**

A student seeking exception to an academic requirement of the college may petition for an exemption. After consulting with the adviser and others involved, the student should submit a petition to the college’s Student Affairs Office, 113 Bohannon Hall.

**Grievance Procedure**

Students with grievances concerning admission, maintenance, or exit processes may obtain a copy of the grievance procedure from the program coordinator.

**College Honors**

At UMD, a maximum of 15 percent of the graduating class is designated *summa cum laude*, the next 5 percent *magna cum laude*, and the next 7 percent *cum laude*. The minimum overall GPAs required for the three honors categories are established on the basis of the record of the previous year’s graduating class and are available at the college’s Student Affairs Office. Both the overall GPA and cumulative University GPA must meet the required minimum in order to qualify for each honors classification.

**Student Affairs Office**

The CEHSP Student Affairs Office offers help in exploring majors and assessing individual needs. Our professional academic advisers advise first-year undecided majors as well as other students looking for additional help in exploring majors, minors, and career directions.

Information about admission, orientation, advising, scholastic standing, change of college, change of major, graduation honors, and grievance and appeal procedures may be obtained from the CEHSP Student Affairs Office, 113 Bohannon Hall (218-726-7156). Applications for Minnesota state licensure are also available in this office.

**Continuing Education (CE)**

The College of Education and Human Service Professions coordinates Continuing Education (CE) courses, conferences, and institutes in conjunction with CE. Both undergraduate- and graduate-level credits may be earned through CE.

For more information, contact CE, 104 Darland Administration Building (218-726-6797).

**Degrees Offered**

**Bachelor of Applied Arts (B.A.A.)**

This degree program prepares students to teach in selected secondary education fields.

**Majors**

- Teaching communication arts/literature
- Teaching French
- Teaching German
- Teaching social studies (with one of the following concentrations)
  - Anthropology
  - Economics
  - Geography
  - History
  - Political science
  - Psychology
  - Sociology
  - Women’s studies
  - Teaching Spanish

Majors in art education (K–12 for the bachelor of fine arts degree) and in music education (K–12 for the bachelor of music degree) are available through the School of Fine Arts.
Bachelor of Applied Science (B.A.Sc.)

This degree program prepares students to work with young children or teach in elementary and selected secondary education fields and offers the nonteaching fields of athletic training, communication sciences and disorders, community health education, exercise science, psychology, and recreation.

Majors

Athletic training
Communication sciences and disorders
Elementary/middle school teacher education
Teaching communication arts and literature specialization
Teaching mathematics specialization
Teaching sciences specialization
Teaching social studies specialization
Exercise science (with one of the following concentrations)
  Health and fitness
  Exercise and sport science
  Special area of interest
Health education (with one of the following concentrations)
Community health
  School health
Elementary/middle school education
Physical education
  Optional outdoor education emphasis
Psychology
Recreation—outdoor education
Teaching earth and space sciences
  Optional environmental education concentration
Teaching life science
  Optional environmental education concentration
Teaching mathematics
Teaching physical sciences (with one of the following concentrations)
  Chemistry
  Physics
Unified early childhood studies

Minors

Coaching
Health education
Psychology
Recreation—outdoor education
Special education

For other minors available to students receiving bachelor of applied arts (B.A.A.) or bachelor of applied science (B.A.Sc.) degrees, see the Labovitz School of Business and Economics, School of Fine Arts, College of Liberal Arts, and College of Science and Engineering sections of this catalog.

Baccalaureate Degree Requirements

B.A.A. and B.A.Sc. requirements include the following:

- Completion of at least 35 credits in liberal education coursework as prescribed in the Liberal Education Program section of this catalog
- Completion of one or more majors with a 2.00 minimum GPA in each or minimum GPA as required by the program
- A minimum 2.00 University of Minnesota and overall (including transfer credits) GPA (or higher as required by the program)
- Completion of courses to total at least 120 credits. The credit requirement is specified individually by each major program. Recommended electives and required supporting courses are described for each major
- Compliance with general regulations governing granting of degrees. Students are required to review their degree status in the CEHSP Student Affairs Office early in their senior year
- Degree candidates must complete at least 30 degree credits at UMD. At least 20 of the last 30 degree credits immediately before graduation must be taken at UMD.

Students seeking two degrees (e.g., a B.A. and B.A.Sc.) must fulfill the major requirements for both degrees.

Collegiate Graduate Programs

125 Bohannon Hall, 218-726-7442

Collegiate graduate programs require a minimum of 30 semester credits at 5xxx or above, which have not been used to fulfill an undergraduate requirement; or at the 4xxx level that have been approved for graduate credit through the Graduate School. All courses applied toward a graduate degree must have been taken after the awarding of the baccalaureate degree and must have been registered for graduate credit. At least 20 credits must be completed at UMD, including core courses as specified by the program, and must be earned within five years of admission to the program. All credit must be completed within seven years of admission.

Master of Education (M.Ed.)

The master of education program offers professional development for those in education or human service professions: classroom teachers, educators in specialized areas, and professionals with training responsibilities in the health sciences, social services, and community education.

The curriculum is aligned with the core propositions of the National Board for Professional Teaching Standards. This two-year program uses the cohort model and combines traditional classroom experience and distance education delivery systems, allowing professionals to remain employed full-time while completing the advanced degree. M.Ed. courses establish a knowledge base that incorporates the college’s philosophy of the full integration of reflection, empowerment, diversity, and collaboration. The M.Ed. consists of core courses, electives, and a final project.

The M.Ed. in environmental education is an area of the M.Ed. program designed for college graduates who plan to work as environmental educators in such diverse settings as public and private schools, institutions of higher education, nature centers, outdoor education programs, parks and recreation programs, and independent environmental organizations. The program includes core requirements in professional development, research and theory, teaching methodology issues and diversity; specialty courses in at least two of the following areas: ecological content, sociological understanding, psychology, technology, learning theory and application, curriculum design, or research design, methods, and analysis; and a thesis.

Master of Special Education (M.Sp.Ed.)

The master of special education is designed for licensed special education teachers and offers advanced training in behavior intervention planning, administration and supervision, research, and program evaluation. Postbaccalaureate licensure candidates with core special education course work completed are eligible to apply for admission.

The program operates as a cohort of graduate candidates who take courses together over three summers and complete data-based research or field projects as a terminal activity for graduation. Requirements include credits in special education, research methods and design, and research and investigation.

Master of Arts (M.A.)

The master of arts in communication sciences and disorders prepares students for professional licensure or certification in speech-language pathology, audiology, or education of the hearing impaired. A master of social work (M.S.W.) is also available. For more information, see the Graduate School section of this catalog.

Departments

Communication Sciences and Disorders

Professor: Mark I. Mizuko (department head); Associate Professors: Kent Brorson, Faith C. Loven, Cindy S. Spillers; Instructors: Monica Butche, Lynette Carlson (clinic coordinator), Shannon Godsey, Lynda John, Elizabeth Peterson

E-mail: csd@d.umn.edu

Web site: www.d.umn.edu/csd

The Department of Communication Sciences and Disorders (CSD) prepares undergraduates and graduate professional personnel in the delivery of clinical services to individuals requiring supportive patient care. The department utilizes a clinical training model that provides experiences for attaining the knowledge and skills necessary for entry-level, independent practice of speech-language pathology. CSD gives particular attention to the clinical health care needs of the region in its research, outreach, and service programs in communication disorders.

Education

Professors: David A. McCarthy, Linda Miller-Cleary (English), Bruce H. Munson (department head), Thomas Peacock; Associate Professors: Francis A. Guldbrandsen, Nedra A. Hazareesingh, Mary Hermes, Mary Ann Marchel, Helen Mongan-Rallis, Terrie M. Shannon, Joyce Strand, Kay Wohlhuter; Assistant Professors: Susan Danne,
Education & Human Service Professions

Daniel Giszczinski, Trudie Hughes, Joan Kwako, Molly Minkkinen, Changua Mweti, Jacqueline Ochwari, Jean Stevenson, Julie Williams, Mary Wright, Ji Yoon Yoon; Instructors: Eliza Peacock, Glenn Corbet, Jane Dietrich, Mike Gabler, Lorraine Mitchell, Geralidine Nierengarten, Kim Riordan, Pamela Roth, Elizabeth Ruark, James Sersh, Jill Torres
E-mail: educ@d.umn.edu
Web site: www.d.umn.edu/educ

The department offers programs for the baccalaureate degree or licensure within the general areas of unified early childhood studies; elementary, middle school, secondary, and K–12 education; and special education. See individual program descriptions for specific admission, retention, and exit requirements.

The mission of the Department of Education is to prepare learner-sensitive educators with the knowledge, skills, and dispositions to contribute to a better society. The learner-sensitive educator conceptual framework is the shared foundation for all education programs at UMD. The framework is built on a foundation of professional standards and emphasizes five themes: social justice, collaboration, reflection, empowerment, and technology.

In addition to preparing teachers for licensure in P–12 settings, the department provides a wide range of in-service and graduate programs for educators in school and non-school settings. Department faculty are also engaged in a variety of research and development activities related to teaching and learning.

Health, Physical Education, and Recreation

Associate Professors: Kenneth Gilbertson, John R. Keener, George L. Keeney, Morris Levy, Duane Millslag, Mark E. Nierenberg (department head), Ladona Tornabene; Assistant Professors: Jane Carlson, Donald Collins, Julie Ernst, Char Harkins, Amy Versnik-Nowak; Instructors: Thomas Berry, Elizabeth Fleissner, Kenneth Harkins, James Knapp, Patricia Wendinger
E-mail: hper@d.umn.edu
Web site: www.d.umn.edu/hper

The mission of the Department of Health, Physical Education, and Recreation is to promote the health and physical development of people throughout life by providing education and professional preparation for undergraduate students in the areas of athletic training, exercise science, health education, physical education, recreation, and coaching.

The department offers degrees in athletic training, exercise science, health education, physical education, and recreation—outdoor education. Within these programs are a variety of majors, minors, certifications, and concentrations that give students the knowledge, skill, and attitude to make a valuable contribution in their specific professions. Programs, majors, and certifications are described in alphabetical order in this section of the catalog under the headings of Coaching Minor, Athletic Training (B.A.Sc.), Exercise Science (B.A.Sc.), Health Education (B.A.Sc., School and Community Options), Physical Education (B.A.S.), and Recreation (B.A.S.). Students should check the admission and graduation requirements for each of the individual programs.

Psychology

Professors: Aydin Durugoglu (department head), Randall A. Gordon, Bud A. McClure, Kristelle Miller, Uwe H. Stuecher; Associate Professors: Helen McNichol, Eugene E. Grossman, Jane C. Hovland, Robert L. Lloyd, Sandra J. Woolum; Assistant Professors: Kathy Dowell, Lara LaCaille, Rick LaCaille, Alexandra Luong, Fay E. Maas, Paula Pedersen; Instructors: Katherine Apostol, Brenda Butterfield, Carol Kivi, Karen Marsh, John Taylor
E-mail: psychosd@d.umn.edu
Web site: www.psych.umn.edu

The Department of Psychology offers the bachelor of applied science in psychology. Taking a student-centered approach, the department is committed to excellence in teaching, research, and service. We offer students a firm grounding in the field of psychology and encourage them to embrace diverse theoretical perspectives and ideas, develop skill in independent inquiry, and constructively and ethically apply psychological principles. Our goals are to prepare students for applied careers in human services and graduate education, while advancing their personal growth and life-long learning. Students learn to contribute to the advancement of psychology through research and other scholarly activities, and through fellowship in student psychology organizations. We support the development of reflective and competent research-practitioners versed in using modern technologies, with an active commitment to the liberal education goals of the University.

Social Work

See the Graduate School section of this catalog.

Professors: Priscilla Day, Dennis Falk, Melanie Shepard; Associate Professors: Lynn Bye, Mike Raschick; Assistant Professor: Anne Tellett; Instructor: Johanna Garrison, Kathleen Heltzer
E-mail: sw@d.umn.edu
Web site: www.d.umn.edu/sw

The mission of the Department of Social Work is to promote the well-being of all individuals, families, groups, and communities; and to advance social justice through teaching, research, and service. The department provides student-centered graduate social work education to prepare advanced practitioners for northern Minnesota and beyond. Priorities of the department include preparing culturally competent, advanced generalist social workers, emphasizing services with American Indians and their communities, services for children and families, and social work practice for education in rural settings.

Teacher Licensure Requirements

The teacher licensure requirements are subject to change without notice to accommodate the requirements of licensure and accrediting agencies. These changes may be applied to current students.

Requirements for a teaching license include:
- A baccalaureate degree
- Completion of coursework that meets Minnesota Rules for Teacher Licensuring, either with a UMD degree (B.A.A., B.A.Sc., B.F.A. in art education—K–12, or B.M. in music education—K–12) or with status on a postbaccalaureate contract
- Passing scores on the Pre-Professional Skills Tests (PPST), the Principles of Learning and Teaching Test, and all subject matter content tests required by the Minnesota Board of Teaching

If these requirements are met, the college recommends that an appropriate license be issued. The following approved programs are available:

Communication arts/literature (5–8, 9–12)
Early childhood education (birth-grade 3)
Elementary education (K–6) plus communication arts/literature (5–8 specialty)
Elementary education (K–6) plus mathematics (5–8 specialty)
Elementary education (K–6) plus science (5–8 specialty)
Elementary education (K–6) plus social studies (5–8 specialty)
Elementary education (K–6) plus world language and cultures—French (K–8 specialty)
Elementary education (K–6) plus world language and cultures—German (K–8 specialty)
Elementary education (K–6) plus world language and cultures—Spanish (K–8 specialty)

Postbaccalaureate Contracts

CEHSP has a Postbaccalaureate Student Contract process for persons who have completed a baccalaureate degree at UMD or at another institution and who wish to obtain licensure to teach in Minnesota. This process also can be used by persons who hold a teaching license in one area and wish to add a second license, and those who wish to upgrade a teaching minor to a teaching major.

Students can obtain information about this program from the Student Affairs Office for CEHSP. Applicants need to provide transcripts for their baccalaureate degrees. Once CEHSP receives a student’s transcript(s), it carries out a formal assessment of their coursework and designs a program of studies that permits the applicant to meet the requirements for Minnesota teacher licensure in the desired area of teaching.

Postbaccalaureate contract students must apply for admission or readmission to UMD and must meet all admission requirements for the appropriate teacher licensure program. Upon completion of the requirements identified on the postbaccalaureate contract, students are recommended for Minnesota licensure.

License Application

Students apply for licensure online with the Minnesota Department of Education. Verification forms are submitted for signature to the CEHSP Student Affairs Office, 113 Bohannon Hall (218-726-7156). Applicants must submit a completed application, required fees, evidence of passing scores on all tests required by the Board of Teaching, Federal Bureau of Investigation (FBI) Special education emotional behavioral disorders or learning disabilities (K–12)
Visual arts (K–12)
Vocal and classroom music (K–12)
World languages and cultures—French (K–12)
World languages and cultures—German (K–12)
World languages and cultures—Spanish (K–12)
background check, finger printing, and official transcripts before the college licensure officer can recommend licensure and transmit a recommendation to the Minnesota Teacher Personnel Licensing Office.

For more information, see program descriptions for the individual teaching majors and special licensure fields. Secondary and K–12 teaching majors should also consult the requirements listed in the Department of Education section.

**Degree and Licensure Programs**

**Athletic Training B.A.Sc.**

**Health, Physical Education, and Recreation**

Required credits to graduate with this degree: 120

Required credits within the major: 101 to 102

Athletic training includes the evaluation, treatment, rehabilitation, and prevention of injuries occurring to the physically active. The B.A.Sc. athletic training program prepares undergraduate students academically and clinically for the athletic training profession. Students complete program and degree requirements while gaining clinical experience under the direction and supervision of a certified athletic trainer, or other allied health professional at a UMD affiliated clinical site.

Students in the athletic training program are expected to abide by the NATA Code of Ethics. A detailed athletic training education program policies and procedures manual, including learning goals and objectives, and technical standards for the program, are distributed to the HPER Department Office, 110 Sport and Health Center.

Transfer course equivalencies for required ESAT courses are determined by the program director. Students should plan for a minimum of six semesters in the program, regardless of the number of credits completed at the transfer institution.

This is a competitive entry program. A maximum of 16 students are admitted to the program each year.

**Admission Requirements**

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 transferring from another University of Minnesota college.
- 2.50 for students transferring from outside the University.

Students apply spring semester of their freshman year. Materials must be submitted on or before April 1.

- Completed program application form.
- Official transcripts of previous college courses.
- Grade of B- or better in ESAT 2610.
- Proof of current CPR certification from the Professional Rescuer series.
- Two letters of recommendation (non-University personnel).
- Twenty-five hours of directed clinical observation in the Athletic Training Center.
- Copies of a physical examination and vaccination verifications.
- Signed copy of the program’s technical standards.
- Observation Student Evaluation(s) (submitted to the program director by the evaluating ATC/ACI).
- One page paper on why athletic training is right for them and their perception of the profession of athletic training.

Once required materials are submitted, the candidate is eligible for a formal interview. Candidates are notified of their admission status to the program via letter.

For information about UMD admission requirements, visit the UMD Office of Admissions Web site.

**Freshman Year**

- BIOL 1011—General Biology I, LE CAT4 (5 cr)
- ESAT 2610—Introduction to Athletic Training (3 cr)
- HLTH 1650—CPR/AED for the Professional Rescuer (1 cr)
- PSY 1003—General Psychology, LE CAT6 (4 cr)
- HLTH 2030—Applied Human Anatomy (4 cr)
- or BIOL 1761—Human Anatomy (4 cr)
- MATH 1160—Finite Mathematics and Introduction to Calculus, LE CAT2 (5 cr)
- or MATH 1250—Precalculus Analysis, LE CAT2 (4 cr)

**General Requirements**

In addition to the program-specific requirements listed below, all students are required to complete general University and college requirements including composition and liberal education courses. For more information, see the Liberal Education Program section of this catalog, and general degree requirements listed in each college section.

Recommended freshman writing course(s) for this program: COMP 1120—College Writing.

**Program Requirements**

**Required credits to graduate with this degree:** 120

**Required credits within the major:** 101 to 102

- Liberal education requirements
- Advanced writing requirement: COMP 3140—Advanced Writing: Human Services or COMP 3150—Advanced Writing: Science (3 cr)
- Athlete training majors must complete both the didactic and clinical components to meet the minimum requirements to qualify for the Board of Certification (BOC) exam. In addition to BOC certification, many states require either state licensure, registration, or certification to practice athletic training in the state of employment.

**Didactic and Clinical Component Requirements:**

- Courses for the didactic and clinical components of the program should be taken in the sequence outline below. The clinical education component is a six-semester experience that begins in the fall semester of the sophomore year. It includes two, seven-week rotations per semester (12 rotations total). The rotations include area high schools, two area colleges or universities, and the UMD athletic training center.

**Sophomore Year**

- ESAT 2620—Prevention and Care of Athletic Injuries (2 cr)
- ESAT 2697—Clinical Experience in Athletic Training I (2 cr)
- ESAT 2698—Clinical Experience in Athletic Training II (2 cr)
- ESAT 3690—Fundamentals of Athletic Training Evaluation (4 cr)
- ESAT 3630—Athletic Injury Evaluation I (3 cr)
- ESAT 3640—Therapeutic Modalities (3 cr)
- HLTH 2040—Principles of Human Physiology (4 cr)
- PHYS 1001—Introduction to Physics I, LE CAT4 (5 cr)
- CHEM 1113—Introduction to General, Organic, and Biological Chemistry I, LE CAT4 (5 cr)
- or CHEM 151—General Chemistry I, LE CAT4 (5 cr)

**Junior Year**

- ESAT 3300—Human Biomechanics (4 cr)
- ESAT 3400—Exercise Physiology (4 cr)
- ESAT 3410—Performance Nutrition and Weight Management (4 cr)
- ESAT 3430—Principles of Strength and Conditioning Programs (3 cr)
- ESAT 3632—Athletic Injury Evaluation II (3 cr)
- ESAT 3651—Therapeutic Exercise I (3 cr)
- ESAT 3657—Clinical Experiences in Athletic Training III (2 cr)
- ESAT 3658—Clinical Experiences in Athletic Training IV (2 cr)
- ESAT 4001—Pharmacology in Athletic Training (2 cr)

**Senior Year**

- ESAT 3200—Motor Learning and Development (5 cr)
- ESAT 4600—Senior Seminar Athletic Training (3 cr)
- ESAT 4646—Medical Aspects of Athletic Training (3 cr)
- ESAT 4650—Administrative Aspects of Athletic Training (3 cr)
- ESAT 4697—Clinical Experiences in Athletic Training V (2 cr)
- ESAT 4698—Clinical Experiences in Athletic Training VI (2 cr)
- ESAT 4700—Statistics and Research Methods in Exercise Science (4 cr)

**Suggested Electives**

Take 0–10 credit(s) from the following:

- BIOL 1012—General Biology II (5 cr)
- CHEM 1114—Introduction to General, Organic, and Biological Chemistry II (5 cr)
- CHEM 1152—General Chemistry II (5 cr)
- ESAT 3210—Exercise Adherence (3 cr)
- ESAT 3420—Exercise Testing and Prescription (4 cr)
- HLTH 1104—Health Science Terminology (1–3 cr)
- PHYS 1002—Introduction to Physics II (5 cr)

**Coaching Minor**

**Health, Physical Education, and Recreation**

Required credits in this minor: 21

The coaching minor program prepares graduates to coach in a variety of sites, including schools, public agencies, and youth organizations. The curriculum prepares students to assess, plan, administer, and instruct student athletes.

The coaching minor meets or exceeds the National Association for Sport and Physical Education (NASPE) standards for coaching, with emphasis in coaching and administrative theory, psychology, medical and nutritional concerns, risk management, and skill development. Requirements and admission applications can be obtained from the Department of Health, Physical Education, and Recreation (HPER).

Postbaccalaureate students seeking a coaching minor should have their transcript evaluated by the HPER department.

**Minor Requirements**

**Coaching Minor Courses**

- CC 3117—Functional Anatomy and Sport Injury Management (3 cr)
- CC 3150—Coaching Methods (3 cr)
- CC 3160—Psychological Aspects of Coaching and Athletic Performance (3 cr)
- CC 3161—Administrative Aspects of Coaching (3 cr)
- CC 3997—Coaching Practicum (2 cr)
- PEP 3035 for physical education majors only, CC 3101—Sport Science Applications (3 cr) or PEP 3035—Physiology and Mechanics of Physical Activity (3 cr)
Electives
Take exactly 4 credit(s) from the following:
CC 3170—Coaching and Officiating Football (2 cr)
CC 3171—Coaching and Officiating Basketball (2 cr)
CC 3172—Coaching and Officiating Volleyball (2 cr)
CC 3173—Coaching and Officiating Baseball (2 cr)
CC 3174—Coaching and Officiating Soccer (2 cr)
CC 3175—Coaching and Officiating Ice Hockey (2 cr)
CC 3177—Coaching and Officiating Tennis (2 cr)
CC 3178—Coaching and Officiating Track and Field (2 cr)
CC 3179—Coaching and Officiating Softball (2 cr)

Communication Sciences and Disorders B.A.Sc.

Communication Sciences and Disorders

Required credits to graduate with this degree: 120
Required credits within the major: 67 to 72
This program requires summer terms.

The B.A.Sc. in communication sciences and disorders prepares students for admission to professional graduate degree or licensure programs in speech-language pathology, audiometry, or education of the hearing impaired. This pre-professional undergraduate program also prepares students to work as clinical aides to communication disorders specialists working in a variety of human service and health care settings. The program includes the study of phonetics, the anatomy and physiology of the speech and hearing mechanisms, the normal development of speech and language, and the nature and treatment of disorders of speech, language, and hearing disorders.

Admission Requirements
Students must complete 54 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:
- 2.80 for students already admitted to the degree-granting college.
- 2.80 for students transferring from another University of Minnesota college.
- 2.80 for students transferring from outside the University. Students who wish to obtain an undergraduate degree in communication sciences and disorders must be formally admitted to the program. Department approval of the candidacy papers constitutes formal admission to the undergraduate program. To have candidacy papers approved, students must have completed at least 54, but not more than 70, semester credits and have a minimum overall GPA of 2.80. Students with 70 credits who have not filed candidacy papers will have a hold placed on their records and will not be able to register for classes.

The program allows for alternatives to the established admission procedures on a case-by-case basis. For information about UMD admission requirements, visit the UMD Office of Admissions Web site.

General Requirements
In addition to the program-specific requirements listed below, all students are required to complete general University and college requirements including composition and liberal education courses. For more information, see the Liberal Education Program section of this catalog, and general degree requirements listed in each college section. Recommended freshman writing course(s) for this program: COMP 1120—College Writing.

Program Requirements
Requirements for the B.A.Sc. in communication sciences and disorders include:

- Liberal education requirements
- Advanced writing requirement: COMP 3150 or COMP 3160
- Undergraduates who have been formally admitted to the degree program must maintain an overall GPA of at least 2.80. Students whose GPA falls below 2.80 are placed on department academic probation and have one semester to raise their GPA to at least 2.80. If students fail to raise their GPA within one semester, they are dismissed from the program, cannot enroll in CSD courses or complete their undergraduate degree in communication sciences and disorders at UMD. Undergraduates are placed on academic probation only once before being dismissed from the program.

Minnesota School Licensure: Students who wish to obtain Minnesota licensure as a speech-language pathologist for school settings (pre-kindergarten to grade 12) must complete a masters degree in speech-language pathology from a program accredited by the American-Speech-Language-Hearing Association. UMD’s M.A. in communication sciences and disorders holds this accreditation.

Exit Standards
Senior-level students in good academic standing are required to complete 3 credits of CSD 4197. This constitutes a clinical internship in which the students work directly with individuals who have speech, language, or hearing disorders. The internship takes place in the on-campus speech-language-hearing clinic under the close supervision of department faculty who are certified by the American Speech-Language-Hearing Association.

CSD Core
CSD 1100—Phonetics, LE CAT3 (2 cr)
CSD 2230—Human Communication Disorders, LECED CAT3 (2 cr)
CSD 3103—Anatomy of Speech and Hearing Mechanisms (3 cr)
CSD 3131—Language Development (4 cr)
CSD 3150—Fundamentals and Clinical Applications of Speech Science (3 cr)
CSD 3160—Fundamentals of Hearing Science (3 cr)
CSD 3200—Articulation and Phonological Disorders (3 cr)
CSD 3232—Language Disorders (3 cr)
CSD 3241—Foundations of Treatment in Communication Disorders (3 cr)
CSD 4010—Portfolio Development (1 cr)
CSD 4197—Clinical Practicum in Communication Disorders (3 cr)
CSD 4200—Introduction to Fluency Disorders (3 cr)
CSD 4400—Hearing Disorders and Evaluation (3 cr)
CSD 4500—Voice Disorders (3 cr)
CSD 5000—Departmental Seminar (1–3 cr)

Courses From Other Programs
PSY 1003—General Psychology, LE CAT6 (4 cr)
PSY 2021—Developmental Psychology, LECED CAT6 (4 cr)
One social science course from approved degree list
BIOL 1011—General Biology I, LE CAT4 (5 cr)
or
BIOL 1001—Biology and Society, LE CAT4 (4 cr)
COMM 1112—Public Speaking, LE CAT3 (3 cr)
or
COMM 1222—Interpersonal Communication, LECED CAT3 (3 cr)
PHYS 1001—Introduction to Physics I, LE CAT4 (5 cr)
or
PHYS 1001—Ideas in Physics, LE CAT4 (3 cr)
PSY 3020—Statistical Methods (4 cr)
or
STAT 1411—Introduction to Statistics, LE CAT2 (3 cr)

Electives
Take 0–8 credit(s) from the following:
CSD 2001—American Sign Language Studies I, LECED CAT3 (3 cr)
CSD 2002—American Sign Language Studies II, LECED CAT3 (3 cr)
CSD 4097—Introduction to Clinical Practicum in Communication Disorders (1 cr)
CSD 4297—Advanced Clinical Practicum in Communication Disorders (3 cr)
CSD 5000—Departmental Seminar (1–3 cr)
CSD 5003—American Sign Language Studies III (3 cr)
CSD 5004—American Sign Language Studies IV (3 cr)
CSD 5005—American Sign Language V (3 cr)
CSD 5091—Independent Study (1–3 cr)
CSD 5098—Communication Sciences and Disorders Workshop (1–3 cr)

or Other Electives
Other courses must be approved by academic adviser.
Take 0–8 credit(s) from the following:
BIOL 1761—Human Anatomy (4 cr)
HLTH 2040—Principles of Human Physiology (4 cr)
LING 1811—Introduction to Language, LE CAT2 (3 cr)
PHIL 2011—Philosophy of Language, LE CAT3 (3 cr)
PSY 2023—Marriages and Families Worldwide, LEIP CAT4 (4 cr)
PSY 3524—Basic Helping Skills (4 cr)
PSY 3661—Psychology of Language (3 cr)
SOC 1201—Sociology of the Family, LECAT8 (3 cr)
SPED 1157—Individuals With Disabilities in Society, LECAT3 (3 cr)

Electives and Speech-Language Pathology License
Students who wish to obtain a Minnesota Educational Speech-Language Pathology license must complete a masters in communication disorders from an ASHA accredited program. The program also recommends a public school practice and any two of the following courses which can be used as electives in the major.

Take 0–2 course(s) totaling 0–8 credit(s) from the following:
ECH 5010—Programs for Education of Young Children: Birth-Age Eight (4 cr)
ECH 5050—Observing and Guiding Behavior: Birth-Age Eight (4 cr)
EDUC 5340—Interacting With Diverse Families (3 cr)
EDUC 5381—Teaching American Indian Students (2 cr)
EDUC 5650—Families in Crisis (3 cr)
EDSE 4100—Human Relations in Classrooms (2 cr)
SPED 5103—Infants and Toddlers With Special Needs (4 cr)
SPED 5105—Young Children With Special Needs: Ages Three to Eight (4 cr)
SPED 5381—Behavior Management Principles and Practices (4 cr)
SPED 5382—Advanced Theory and Practice in Emotional/Behavioral Disorders (4 cr)
SPED 5433—Foundations in Special Education (4 cr)
SPED 5435—Parent and Professional Communication and Collaboration (4 cr)

Elementary and Middle School Education B.A.Sc.

Education
Required credits to graduate with this degree: 130 to 140
Required credits within the major: 117 to 131
This program is 9 terms (4½ years) long.
Successful completion of a B.A.Sc. in elementary and middle school education qualifies students to apply for state licensure to teach grades K–6 and 5–8 in the specialty field in any Minnesota elementary or middle school. The major also provides a good foundation for programs leading
Education and Human Service Professions

Program Requirements

Requirements for the B.A.Sc. in elementary and middle school education include:

- Liberal education requirements
- Advanced writing requirement: COMP 3140—Advanced Writing
- Progress is monitored in academic performance (grades of C- or better in all required courses), professional dispositions, and teaching skills during field experiences. Students who do not meet program standards may be dropped from the major.
- Registration for student teaching in the senior year requires: 2.70 GPA overall and in major courses; grades of C- or better in all courses in the major; and completion (graded) of all professional education courses
- Students must have personal liability insurance while they are working in field placement settings
- Program completers must pass all tests required by the Minnesota Board of Teaching to be recommended for licensure

Diversity Immersion Experience Requirement

Candidates must spend a minimum of 40 hours at a formal or nonformal educational setting that has a high percentage (greater than 50 percent) of children, young adults, or families from diverse communities. The format of this experience allows candidates to observe, interact, and reflect in an educational setting guided by focus questions and recommended readings. Evidence of completion of this requirement will be included in a candidate’s professional portfolio.

Students must meet this requirement after they take EDUC 1101 and before they complete their education program. Registration for credit is not required for this experience; however, candidates who wish to earn credit may register for EDUC 4991.

Upper Division (63 cr)

Before being recommended for licensure, students must demonstrate satisfactory performance outcomes, have grades of C- or better in all required courses in the major and specialty area, have acceptable ratings from classroom and University supervisors, including student teaching, and a portfolio documenting competence in the Minnesota and national Standards of Effective Practice. Portfolios are evaluated by University supervisors. Students must pass all tests required by the Minnesota Board of Teaching.

ART 3810—Art in Elementary Education (2 cr)
ECH 3006—Early School Years (2 cr)
EDP 3412—The Computer in Education (1–4 cr)
EDSE 4120—Philosophy and Organization of the Middle School (2 cr)
HLTH 3161—School Health Programs: Early Childhood through Middle School (2 cr)
MU 3601—Elementary School Music Teaching (2 cr)
PFP 3126—Elementary School Physical Education (2 cr)

Block I (17 cr)

Take all of the following in the same term:
ELED 3315—Learning Environments and Diverse Learning Communities (3 cr)
ELED 3325—Language and Literacy (4 cr)
ELED 3331—Children’s Literature and Integrated Creative Arts (4 cr)

Block II (17 cr)

Take all of the following in the same term:
ELED 3381—Teaching American Indian Students in the Elementary Classroom (2 cr)
ELED 4344—Teaching Science and Environmental Education (4 cr)
ELED 4345—Instructional Strategies, Assessment, and Management (3 cr)
ELED 4366—Teaching Social Studies and Environmental Education (4 cr)
SPED 4310—Adapting for Diverse Learners in General Education Settings (4 cr)

Block III (13 cr)

EDUC 4550—Professional Issues in Teaching (1 cr)
ELED 4600—Student Teaching (6–12 cr)

Program Sub-Plans

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

Teaching Communication Arts/Literature

Teaching communication arts/literature specialization (25 cr) is for licensure taken in conjunction with the elementary/ middle school major.

Specialization Courses

EDSE 4212—Literature for Adolescents (3 cr)
ENGL 1582—Introduction to World Literatures, LEIP CAT9 (3 cr)
ENGL 3563—American Literature I (4 cr)
ENGL 3564—American Literature II (4 cr)
ENGL 5902—Teaching Language, Cognition, and Writing (4 cr)
LING 1811—Introduction to Language, LE CAT2 (3 cr)
ENGL 3501—British Literature I (4 cr)
or ENGL 1355—King Arthur in History, Literature, and Art, LE CAT9 (4 cr)

Teaching Mathematics

Teaching mathematics specialization (21–23 cr) is for licensure taken in conjunction with the elementary/middle school major.

Specialization Courses

EDUC 4226—Geometry for Teachers in Grades 5–8 (3 cr)
EDUC 4227—Number Theory for Teachers in Grades 5–8 (3 cr)
EDUC 4228—Teaching Mathematics with Technology (3 cr)

Sublist

Take 2 or more course(s) from the following:
MATH 1160—Finite Mathematics and Introduction to Calculus, LE CAT2 (5 cr)
MATH 1250—Precalculus Analysis, LE CAT2 (4 cr)
MATH 1290—Calculus for the Natural Sciences, LE CAT2 (5 cr)

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Ojibwe Language
AMIN 1101—Beginning Ojibwe I, LECAT CAT3 (3 cr)
AMIN 1104—Beginning Ojibwe II, LECAT CAT3 (3 cr)
AMIN 2203—Intermediate Ojibwe I, LECAT CAT3 (3 cr)
AMIN 2204—Intermediate Ojibwe II, LECAT CAT3 (3 cr)

General Requirements
In addition to the program-specific requirements listed below, all students are required to complete general University and college requirements including composition and liberal education courses. For more information, see the Liberal Education Program section of this catalog, and general degree requirements listed in each college section. Recommended freshman writing course(s) for this program: COMP 1120—College Writing.

Program Requirements
Requirements for the B.A.Sc. in Ojibwe Elementary/Middle School Education (Gekinoo’imaagejig) include:
- Liberal education requirements
- Advanced writing requirement: COMP 3140—Advanced Writing: Human Services (3 cr)
- Ojibwe language requirements
Each semester students meet with their program adviser. Students who do not meet program expectations may be dropped from the program.

Special Needs:
- Students who need accommodations because of a disability or a special need should consult their program adviser and Disabilities Services and Resources.
Exercise Science B.A.Sc.

Required credits to graduate with this degree: 120
Required credits within the major: 96 to 97
Exercise science majors engage in the study of all aspects of human movement including motor skill development and acquisition, biomechanics, movement efficiency, physiological responses and adaptations of organ systems, anatomical development, and psycho-sociological influences.

The bachelor of applied science degree in exercise science has foundations in mammalian biology, chemistry, physics, psychology and mathematics. After two years of science and liberal education, degree candidates engage in the advanced study of their selected concentration, focusing on professional and graduate studies or applications of exercise science (health care professions or human performance professions).

Depending on the concentration selected, either an internship or research project is the capstone requirement.

The exercise science curriculum uses laboratory experiences for active learning. Most upper level ESAT courses have a graded laboratory component. Students work under supervision in the Exercise Physiology Laboratory, Biomechanics Laboratory, and Motor Learning and Vision Laboratory. Students combine theoretical knowledge with practical experience in electrocardiography, exercise testing, exercise supervision, applied nutrition, and strength and conditioning procedures in a managed learning environment.

They monitor and mentor students involved in exercise programs. Labs and other physical facilities allow learning via student research and activity. Substantial opportunities exist for interested students to conduct independent research under the guidance of faculty mentors. Such projects have potential to be presented at the local, state, and national professional meetings. This provides students with unparalleled opportunity for professional development and personal growth.

The primary objective of the exercise science program is to assist students in preparing themselves for success in graduate and professional studies or to be competent practitioners in professions centering on human movement in health-related or sports activities. De facto program evaluation comes as students sit for the certification exams such as the National Strength and Conditioning Association (NSCA), American College of Sports Medicine (ACSM), and tests such as the Medical College Admission Test (MCAT) and The Graduate Record Examination (GRE) and as they successfully compete for entry into graduate and professional programs nationwide.

Admission Requirements

Students must complete 21 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.

Students are admitted to UMD as pre-majors. Students transferring from another UMD program or college or from another institution must meet with the exercise science faculty coordinator before final transfer is approved. Regardless of total credits, transfer students must complete all required courses from other programs prior to applying for candidacy. Degree candidates typically start their final two year sequence of courses in the fall semester. Students transferring and/or attempting to start candidacy in the spring or summer semester will not be allowed to take courses for which they have not completed all listed course prerequisites.

Admission to the major is contingent upon the following:

- Completion of courses from other programs (listed below)
- Being within one semester of completing all University liberal education requirements
- Academic adviser’s approval of additional required courses in the concentration requirements
- Minimum 2.50 cumulative GPA

For information about UMD admission requirements, visit the UMD Office of Admissions Web site.

Pre-Exercise Science From Other Programs

CHEM 1131 for exercise and sport science concentration.
CHEM 1133 for health and fitness concentration.

BIOL 1011—General Biology I, LE CAT4 (5 cr)
COMP 1120—College Writing, LE CAT (3 cr)

HLTH 1470—Human Nutrition, LE CAT (3 cr)
HLTH 2030—Applied Human Anatomy (4 cr)
HLTH 2040—Principles of Human Physiology (4 cr)

PHYS 1001—Introduction to Physics I, LE CAT (4 cr)
PSY 1003—General Psychology, LE CAT (4 cr)
CHEM 1151—General Chemistry I, LE CAT (4 cr)
or CHEM 1113—Introduction to General, Organic, and Biological Chemistry I, LE CAT (5 cr)

General Requirements

In addition to the program-specific requirements listed below, all students are required to complete general University and college requirements including composition and liberal education courses.

For more information, see the Liberal Education Program section of this catalog, and general degree requirements listed in each college section.

Recommended freshman writing course(s) for this program: COMP 1120—College Writing.

Program Requirements

Requirements for the B.A.Sc. in exercise science include:

- Liberal education requirements
- Advanced writing requirements: COMP 3160—Advanced Writing: Social Sciences (3 cr)
- Concentration requirements
- Only students admitted to the major may register for ESAT 3xxx courses and above. Such courses are taken in addition to the core courses and are specific to each exercise science concentration.

The academic progress of all pre-majors and majors is closely monitored. Students who do not meet the following GPA* standards will be placed on department academic probation; 30 credits (2.25 minimum); 45 credits (2.37 minimum); 60 or more credits (2.50 minimum).

* Credits and GPA are defined as cumulative GPA and include all credits and GPA points on the student's record, including those transferred from other programs and institutions.

Maintenance Standards: To continue as an exercise science major or pre-major, students must maintain satisfactory academic progress (as outlined above) and demonstrate acceptable professional performance in their classroom, laboratory, research, and internships.

ESAT Core Courses (all concentrations)

ESAT 3200—Motor Learning and Development (5 cr)
ESAT 3300—Human Biomechanics (4 cr)
ESAT 3400—Exercise Physiology (4 cr)
ESAT 3410—Performance Nutrition and Weight Management (4 cr)
ESAT 3420—Exercise Testing and Prescription (4 cr)
ESAT 3440—Clinical Exercise Physiology (4 cr)

Program Sub-Plans

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

Exercise and Sport Science

The bachelor of applied science (B.A.S.) in exercise science with a concentration in exercise and sport science prepares students for admission to graduate programs in exercise science (biomechanics, exercise physiology, sports psychology), the health professions (including medicine, physician assistant, occupational and physical therapy), and clinically applied professions such as clinical exercise physiologist and cardiac rehabilitation.

The required curriculum includes a liberal education background, a core of basic and applied sciences, and courses in the exercise science subdisciplines, and either a senior project or an internship in a sport, exercise, educational, or public service/workplace setting. This area of study is primarily for students who intend to pursue advanced degrees in an exercise science specialization or to seek admission to a professional program in the health sciences.

Exercise and Sport Science Core Courses

ESAT 4700—Statistics and Research Methods in Exercise Science (4 cr)
ESAT 4710—Applied and Experimental Exercise Science (4 cr)

Courses From Other Programs

BIOL 1012—General Biology II (5 cr)
CHEM 1152—General Chemistry II (5 cr)
MATH 1296—Calculus I, LE CAT (5 cr)
PHYS 1002—Introduction to Physics II (5 cr)

Electives

Take 13 or more credit(s) from the following:

- BIOL 2100—Cell Biology (4 cr)
- BIOL 2201—Genetics (3 cr)
- BIOL 3703—Animal Physiology (3 cr)
- BIOL 4501—General Microbiology (4 cr)
- CHEM 2222—Quantitative Analysis (3 cr)
- CHEM 2223—Quantitative Analysis Laboratory (1 cr)
- CHEM 2521—Organic Chemistry I (4 cr)
- CHEM 2522—Organic Chemistry II (4 cr)
- CHEM 3322—Biochemistry (3 cr)
- CHEM 3334—Biochemistry Laboratory (1 cr)
- ESAT 3210—Exercise Adherence (3 cr)
- ESAT 3430—Principles of Strength and Conditioning Programs (4 cr)
- PSY 2021—Developmental Psychology, LE CAT (4 cr)
- PSY 3121—Abnormal Psychology (4 cr)

Health and Fitness

The bachelor of applied science (B.A.S.) in exercise science with a concentration in health fitness prepares students for professional involvement with clients in clinical, commercial, corporate, and service agency fitness and health programs. The curriculum prepares students to demonstrate the knowledge, skills, and abilities outlined by the American College of Sports Medicine (ACSM) for professionals in clinical and health-related programs. Completion of the degree program does not ensure ACSM certification.
Health and Fitness Core Courses
ESAT 3120—Exercise Adherence (3 cr)
ESAT 3430—Principles of Strength and Conditioning (4 cr)
ESAT 3432—Exercise Leadership (3 cr)
ESAT 3450—Management of Fitness Facilities (3 cr)
ESAT 4996—Internship (3–12 cr)

Courses From Other Programs
HLTH 1700—First Responder (3 cr)
HPER 3100—Risk Management (2 cr)
PSY 3020—Statistical Methods (4 cr)
MATH 1160—Finite Mathematics and Introduction to Calculus, LE CAT2 (5 cr)
or
MATH 1250—Precalculus Analysis, LE CAT2 (4 cr)

Electives
Complete a minor in psychology or management studies (business administration or non-LSBE students) OR Take 13 or more credit(s) from the following:
ESAT 3495—Special Topics: (Various Titles to be Assigned) (1–4 cr)
ESAT 5420—Current Controversies in Nutrition (3 cr)
HLTH 3101—Community Health (3 cr)
HLTH 3115—Consumer Health Education (3 cr)
HLTH 3116—Principles of Epidemiology and Human Disease (3 cr)
HLTH 3118—Women’s Health Issues (3 cr)
HPER 3200—Research and Evaluation in Health Science (3 cr)
PSY 3098—The Psychological Principles of Stress (3 cr)
PSY 3540—Psychology of Food Abuse (3 cr)
PSY 3613—Behavior Modification (3 cr)
MATH 1160—Finite Mathematics and Introduction to Calculus, LE CAT2 (5 cr)
or
MATH 1250—Precalculus Analysis, LE CAT2 (4 cr)

Special Interest
The B.A.Sc. in exercise science with a concentration in a special area of interest prepares students for admission to graduate programs in exercise science, the traditional health professions, and clinically allied professions. Special areas of interest fall outside the approved concentrations in health and fitness, and exercise sport science. They are subject to approval by the department.
The required curriculum includes a liberal education background, a core of basic and applied sciences, courses in the exercise science subdisciplines, and either a senior project or an internship in a sport, exercise, educational, or public service/workplace setting.
This special area of study is primarily for students who intend to pursue advanced degrees in an exercise science specialization or to seek admission to a professional program in the health sciences that falls outside of the preparation given in other concentrations.

Special Area Courses
Students select, with approval by the academic adviser and department academic affairs committee, a variety of courses with ESAT and related designators. These courses, when combined with all other degree and University requirements, must total at least 120 credits.

In general, this concentration consists of courses with the ANAT, BIOL, CHEM, ENGR, ESAT, HLTH, PHYS, PSY, and SOC designators.

Secondary and K–12 Teacher Education
Students preparing for teaching licensure in Minnesota secondary schools must complete an approved baccalaureate degree program with one or more majors in a teaching area.

Admission Requirements
Students entering the secondary and K–12 licensure programs are bound by the policies in effect at the time of application to the licensure program. Admission is based on criteria that are established by the Department of Education and are consistent with Minnesota policies, as well as standards established by the National Council for Accreditation in Teacher Education (NCATE).

To be considered for admission, a student must have:
1. a GPA of at least 2.50 overall and in major courses completed at the time of application;
2. taken the Pre-Professional Skills Test (PPST); and
3. passing scores on a nationally recognized standardized test such as the PPST, ACT, or SAT.

Students must submit a letter of application, resume, letters of recommendations, and a copy of the their Academic Progress Audit System (APAS) report. Students may obtain specific program admission requirements and procedures from the UMD Department of Education Web site at www.d.umn.edu/educ. There are alternatives to these established admission procedures to encourage the participation of individuals from underrepresented groups and other students as determined by the department.

Applications, including all supporting documents, are due by 4:00 p.m. on the sixth Friday of each semester for admission for the following semester. Applications are available from the UMD Department of Education Web site at www.d.umn.edu/educ.

Maintenance Standards
To continue as secondary education or K–12 education majors, students must make satisfactory academic progress and demonstrate acceptable professional performance in their field experiences. To be eligible for student teaching, a student must have a GPA of at least 2.50 overall and in the major, and have no grades lower than a C- in required courses for the major.

Exit Standards
Before being recommended for licensure, students must demonstrate satisfactory performance outcomes required by the program and have acceptable ratings from both the classroom and University supervisors for student teaching performance. Students must pass all tests required by the Minnesota Board of Teaching.

Personal Liability Insurance
Students must have personal liability insurance while they are working in public school classrooms. This is usually obtained most economically with a student membership in Education Minnesota. Applications are available in the Office of Field Experiences, 120 Montague Hall; 218-726-7483.

Other Professional Concerns
The forms necessary to apply for licensure upon completion of an approved teaching major program are available in the CEHSP Student Affairs Office.

Information on obtaining teaching positions is available from the Career Services office in the Colson Campus Center.

To be permitted to register for student teaching, students must meet the following requirements:

- Grades of C- or better in all courses in the teaching major(s) and minor(s)
- 2.50 GPA both overall and in major courses
- Completion of a minimum of 85 percent of teaching major courses

Application deadlines are posted on the UMD Department of Education Web site at www.d.umn.edu/educ.

Students preparing for secondary school licensure must spend one semester in as a full-time student teacher in middle and/or senior high school under the supervision of a licensed teacher(s). Students preparing for K–12 licensure must complete part of this assignment in an elementary school. To be recommended for licensure, a minimum of 12 credits must be earned in student teaching. Student teaching is normally done during the senior year.

Diversity Immersion Experience Requirement
Candidates must spend a minimum of 40 hours in a formal or non-formal educational setting that has a high percentage (greater than 50 percent) of children, young adults, or families from diverse communities. The format of this experience allows candidates to observe, interact, and reflect in an educational setting guided by focus questions and recommended readings. Evidence of the completion of this requirement will be included in candidates’ professional portfolios. Students must meet this requirement after they take EDUC 1101—Education in Modern Society and before they complete their education program. Registration for credit is not required for this experience; however, candidates who wish to earn credit may register for EDUC 4991—Independent Study.

Secondary teaching programs lead to State of Minnesota licensure in grades 5–12 in the following majors:

School health education
Teaching communication arts/literature
Teaching earth and space science
Optional environmental education concentration
Teaching life science
Optional environmental education concentration
Teaching mathematics
Teaching physical science
Chemistry
Physics*
Teaching social studies
Anthropology
Economics
Geography
History
Political science
Psychology
Sociology
Women’s studies

*Teaching physics, grades 9–12 only, is available for postbaccalaureate candidates with an undergraduate science degree, or can be completed concurrently with the B.A. or B.S. degree in physics at UMD.

Kindergarten through grade 12 licensure majors include:

- Art (see School of Fine Arts)
- Music (see School of Fine Arts)
- Physical Education
- Teaching French
- Teaching German
- Teaching Spanish

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Health Education B.A.Sc.

Health, Physical Education, and Recreation

Required credits to graduate with this degree: 120 to 123
Required credits within the major: 89 to 107
The bachelor of applied science (B.A.Sc.) in health education prepares graduates to practice in sites such as schools, voluntary health agencies, public health departments, hospitals, corporate work sites, and businesses. Upper division students select an area of concentration in either community health education or school health education. All health educators, regardless of work site, must possess a number of general competencies. The curriculum, prepares students to assess, plan, implement, deliver, administer, and evaluate health education programs that promote health and prevent disease.

Admission Requirements

Students must complete 45 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.
- 2.00 for students transferring from outside the University.

Students are admitted to UMD as pre-health education majors. After completing lower division coursework requirements, with an overall GPA of 2.50 or higher, students should apply for admission to degree candidacy and access to required upper division courses. Health education advisers assist students in the application process.

Students in the school health option must apply to the Secondary Teacher Education Program (STEP). Health education advisers assist students in this application process.

Students transferring from outside of UMD or from other UMD academic units must have a minimum GPA of 2.00, and must meet with the health education program coordinator before transferring to the major to be approved.

For information about UMD admission requirements, visit the UMD Office of Admissions website.

Lower Division

HLTH 1100—Health and Wellness Strategies for Life, LE CAT8 (3 cr)
HLTH 1104—Health Science Terminology (1–3 cr)

Health Education B.A.Sc.

Required Courses From Other Programs

EDUC 3412 (register for 4 cr)
BIOL 1001—Biological and Social, LE CAT4 (3 cr)
CHEM 1102—Aspects of Chemistry, LE CAT4 (3–4 cr)
COMM 1112—Public Speaking, LE CAT3 (3 cr)
EDUC 1100—Human Diversity, LE CAT6 (3 cr)
EDUC 3412—The Computer in Education (1–4 cr)
PSY 1093—General Psychology, LE CAT6 (4 cr)
PSY 2021—Developmental Psychology, LE CAT6 (4 cr)
SOC 1101—Introduction to Sociology, LE CAT6 (4 cr)

General Requirements

In addition to the program-specific requirements listed below, all students are required to complete general University and college requirements including composition and liberal education courses. For more information, see the Liberal Education Program section of this catalog, and general degree requirements listed in each college section.

Recommended freshman writing course(s) for this program: COMP 1120—College Writing.

Program Requirements

Requirements for the B.A.Sc. in health education include:
- Liberal education requirements
- Advanced writing requirement: COMP 3140—Advanced Writing: Human Services (3 cr)
- Community health or school health emphasis
- Students majoring in health education are expected to maintain a 2.50 GPA overall and in the major. Students whose GPA is below the minimum for two consecutive semesters may be dismissed from the major, as it is unlikely they will meet the standard for graduation from the program. Health education students must demonstrate acceptable professional performance in their courses and field experiences.

Upper Division

HLTH 3010—Community Health (3 cr)
HLTH 3115—Consumer Health Education (3 cr)
HLTH 3116—Principles of Sex Education (3 cr)
HLTH 3202—Drug Education (2 cr)
HLTH 3301—Foundations of Health Education (3 cr)
HPER 3004—Organization and Administration of Health, Physical Education, and Recreation (3 cr)
HPER 3200—Research and Evaluation in Health Science (3 cr)

Program Sub-Plans

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

Community Health

This emphasis addresses seven entry-level competencies identified by various national health education organizations: assess individual and community need for health education; plan effective education programs; implement health education programs; evaluate health education programs; administer health education programs; serve as a health education resource person; and communicate and advocate for health and health education. Students completing this concentration are prepared to take the Certified Health Education Specialist (CHES) exam (entry level).

Exit Standards

The internship experience introduces undergraduates to the people and situations they may encounter as a beginning health education professional. Students test classroom theories and techniques and are given responsibilities that help them assess their individual strengths and weaknesses in order to ascertain the most appropriate and desirable entry-level position(s).

The internship experience permits the prospective health educator the opportunity to associate with experienced professional health colleagues in a field situation. The resulting dialogue should enable the future health educator to study firsthand the needs and trends of the field. The internship generally is completed during the senior year after completion of most, if not all, required coursework. The internship may be taken full- or part-time over one or more semesters, to equal 9 or more credits.

Community Health Concentration

HLTH 4996 (register for 9 cr)
HLTH 3303—Health Education and Promotion Program (3 cr)
HLTH 3305—Community Health Methods and Strategies (3 cr)
HLTH 3500—Environmental Health (3 cr)
HLTH 4000—Professional Issues for Health Educators (4 cr)
HLTH 4996—Internship in Health Education (1–15 cr)

School Health Education

This emphasis prepares graduates for teaching at the middle and secondary level (grades 5–12) and meets the Minnesota Board of Teaching licensure requirements as well as program standards of the National Council for Accreditation of Teacher Education (NCATE). Because this concentration is offered in conjunction with the Department of Education, students must meet requirements from that department.

Personal Liability Insurance: All student teachers are required to have professional liability insurance. Application forms are available in the Office of Field Experiences, Department of Education, 120 Montague Hall.

Exit Standards

Candidate proficiencies are assessed throughout the teacher preparation courses by UMD faculty, university supervisors, and the cooperating teachers in all field experiences. The field experience assessment forms include knowledge, skills, and dispositions that are aligned to institutional, state and national standards for all field experiences.

Candidates must complete a semester of full-time student teaching in a public school setting at the middle or secondary level. Double majors (such as physical education and health education) are required to student teach in both content areas. The final standards-based portfolio is due at the end of student teaching. Candidates must pass all required licensure tests before they can be recommended for teacher licensure in Minnesota.

School Health Concentration

EDUC 4000 (register for 12 cr)
EDUC 1101—Education in Modern Society, LE CAT7 (3 cr)
PSY 1003—General Psychology, LE CAT6 (4 cr)
PSY 2021—Developmental Psychology, LE CAT6 (4 cr)
SOE 1101—Introduction to Sociology, LE CAT6 (4 cr)

Required Courses From Other Programs

EDUC 3412 (register for 4 cr)
PSY 2021—Developmental Psychology, LE CAT6 (4 cr)
PSY 1003—General Psychology, LE CAT6 (4 cr)
PSY 3105—Intermediate Psychology, LE CAT6 (4 cr)
PSY 4003—Psychology of Teaching, LE CAT6 (4 cr)
SOE 1101—Introduction to Sociology, LE CAT6 (4 cr)

Health Education Minor

Health, Physical Education, and Recreation

Required credits in this minor: 43
Students with other majors who have a strong interest in health education and promotion may choose to complete the minor in health education. The coursework covers health content and health education program planning that would be applicable to various employment settings.

Admission Requirements

A GPA above 2.00 is preferred for the following:
- 2.50 for students already admitted to the degree-granting college.

Health Education Minor

Health, Physical Education, and Recreation

Required credits in this minor: 43
Students with other majors who have a strong interest in health education and promotion may choose to complete the minor in health education. The coursework covers health content and health education program planning that would be applicable to various employment settings.

Admission Requirements

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 UMD admission requirements, visit the UMD Office of Admissions website.

**Minor Requirements**

**Lower Division (25 cr)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HLTH 1100—Health and Wellness Strategies for Life, LE CAT5 (3 cr)</td>
<td></td>
</tr>
<tr>
<td>HLTH 1470—Human Nutrition, LE CAT5 (3 cr)</td>
<td></td>
</tr>
<tr>
<td>HLTH 1700—First Responder (3 cr)</td>
<td></td>
</tr>
<tr>
<td>HLTH 2030—Applied Human Anatomy (4 cr)</td>
<td></td>
</tr>
<tr>
<td>HLTH 2040—Principles of Human Physiology (4 cr)</td>
<td></td>
</tr>
<tr>
<td>PSY 1003—General Psychology, LE CAT6 (4 cr)</td>
<td></td>
</tr>
<tr>
<td>PSY 2021—Developmental Psychology, LEC CAT6 (4 cr)</td>
<td></td>
</tr>
<tr>
<td>Upper Division (18 cr)</td>
<td></td>
</tr>
<tr>
<td>HLTH 3101—Community Health (3 cr)</td>
<td></td>
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<tr>
<td>HLTH 3115—Consumer Health Education (3 cr)</td>
<td></td>
</tr>
<tr>
<td>HLTH 3117—Principles of Sex Education (3 cr)</td>
<td></td>
</tr>
<tr>
<td>HLTH 3301—Foundations of Health Education (3 cr)</td>
<td></td>
</tr>
<tr>
<td>HLTH 3303—Health Education and Promotion Program (3 cr)</td>
<td></td>
</tr>
<tr>
<td>HPER 3200—Research and Evaluation in Health Science (3 cr)</td>
<td></td>
</tr>
</tbody>
</table>

**Physical Education B.A.Sc.**

**Health, Physical Education, and Recreation**

Required credits to graduate with this degree: 120 to 128

Required credits within the major: 118 to 120

The bachelor of applied science (B.A.Sc.) in physical education is for students preparing for teacher licensure in physical education (K–12).

The major meets Minnesota Board of Teaching licensure requirements and standards of the National Council for the Accreditation of Teacher Education (NCATE) for teaching physical education in grades K–12 in Minnesota.

The program is taught using the Learner-Sensitive Educator Model, supporting preferences of reflection, social justice, collaboration, empowerment, and technology.

Students are required to obtain personal liability insurance to protect them while they are working in public school situations. Proof of insurance also is required when enrolled in PEP 3720, 3721, 3730, 3731, 3970, and student teaching. This usually is obtained most economically by student membership in the Minnesota Education Association. Applications are available in the department office.

The physical education program develops subject matter expertise of prospective teachers through a sequential set of courses. Physical Education Professional (PEP) courses are open only to majors, allowing faculty to focus on the specific needs and learning objectives of the physical education major.

The program also ensures that graduates can demonstrate proficiency in a wide variety of motor skills inherent within the physical education curriculum. Majors take PEP skills courses that incorporate appropriate methods of teaching the skill. Students who do not have sufficient skill to participate will be required to enroll in a more basic class to address the skill deficiency before enrolling in the PEP course.

The physical education program also instills an appropriate set of professional dispositions (attitudes and behaviors) that are predictors of success in educational settings. Students who fail to exhibit appropriate dispositions may be removed from the program.

**Admission Requirements**

Students must complete 45 credits before admission to the program. Freshmen and transfer students are usually admitted 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.

After completing 90 percent of lower division requirements, students must apply to upper division to the coordinator of Physical Education Teacher Education (PETE) at the end of the seventh week of the semester. Criteria include:

- Completed application
- Submission of working portfolio
- Completion of all high school preparations
- 2.50 cumulative and major GPA
- Evidence of having taken the PPST
- A minimum grade of C- in all required courses in the major
- Evidence of 30 hours of professional service and/or collaboration within the department

To enroll in professional education courses, PE majors must apply to the Secondary Teacher Education Program (STEP). After admission to STEP and to be eligible to student teach, students must maintain satisfactory academic progress (grades of C- or better in all required courses in the major), demonstrate acceptable teaching skills in field experiences, and exhibit appropriate professional dispositions.

For information about UMD admission requirements, visit the UMD Office of Admissions website.

**Lower Division (48–50 cr)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 1102—Astronomy and Aspects of Chemistry, LE CAT4 (3–4 cr)</td>
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<tr>
<td>COMP 1120—College Writing, LE CAT1 (3 cr)</td>
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<tr>
<td>EDUC 1101—Education in Modern Society, LE CAT7 (3 cr)</td>
<td></td>
</tr>
<tr>
<td>HLTH 1100—Health and Wellness Strategies for Life, LE CAT8 (3 cr)</td>
<td></td>
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<tr>
<td>HLTH 1600—Basic First Aid and CPR (2 cr)</td>
<td></td>
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<tr>
<td>HLTH 2040—Principles of Human Physiology (4 cr)</td>
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<tr>
<td>PE 2240—Lifeguarding Today (1 cr)</td>
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<tr>
<td>PE 2244—Water Safety Instructor (2 cr)</td>
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<tr>
<td>PEP 1001—Introduction to Physical Education (2 cr)</td>
<td></td>
</tr>
<tr>
<td>PEP 1010—Teaching Elementary Games and Gymnastics (1 cr)</td>
<td></td>
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<tr>
<td>PEP 1020—Teaching Rhythms (1 cr)</td>
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<tr>
<td>PEP 1310—Teaching Dance (2 cr)</td>
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<tr>
<td>PEP 1400—Teaching Tennis and Golf (1 cr)</td>
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<tr>
<td>PEP 1504—Teaching Skating (1 cr)</td>
<td></td>
</tr>
<tr>
<td>PEP 1600—Teaching Fitness and Weight Training (2 cr)</td>
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<tr>
<td>PEP 1700—Teaching Soccer and Softball (1 cr)</td>
<td></td>
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<tr>
<td>PEP 1710—Teaching Volleyball and Basketball (1 cr)</td>
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<tr>
<td>PEP 2000—Foundations of Physical Education (3 cr)</td>
<td></td>
</tr>
<tr>
<td>PSY 1003—General Psychology, LE CAT6 (4 cr)</td>
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<tr>
<td>BIL 1001—Biology and Society, LE CAT4 (3 cr)</td>
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<tr>
<td>PEP 3700—Elementary Physical Education (3 cr)</td>
<td></td>
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<tr>
<td>HLTH 2300—Applied Human Anatomy (4 cr)</td>
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<tr>
<td>or BOL 1761—Human Anatomy (4 cr)</td>
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</tbody>
</table>

**General Requirements**

In addition to the program-specific requirements listed below, all students are required to complete general University and college requirements including composition and liberal education courses.

For more information, see the Liberal Education Program section of this catalog, and general degree requirements listed in each college section.

Recommended freshman writing course(s) for this program: COMP 1120—College Writing.

**Program Requirements**

Requirements for the B.A.Sc. in physical education include:

- Liberal education requirements
- Advanced writing requirement: COMP 3140—Advanced Writing: Human Services (3 cr)

Students who need accommodation because of a disability have a special need should consult their program adviser and Disability Services and Resources

Students must complete a full semester of student teaching in a public school setting. Students register concurrently for EDUC 4500 (3 cr) to allow a forum for the discussion of current field practice.

Double majors (such as in physical education and health education) are required to student teach in both content areas

**Upper Division (67 cr)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 3412 (register for 4 cr)</td>
<td></td>
</tr>
<tr>
<td>COMP 3140—Advanced Writing: Human Services (3 cr)</td>
<td></td>
</tr>
<tr>
<td>CC 3117—Functional Anatomy and Sport Injury Management (3 cr)</td>
<td></td>
</tr>
<tr>
<td>EDUC 3412—The Computer in Education (1–4 cr)</td>
<td></td>
</tr>
<tr>
<td>ESAT 3200—Motor Learning and Development (5 cr)</td>
<td></td>
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<tr>
<td>HLTH 3202—Drug Education (2 cr)</td>
<td></td>
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<tr>
<td>PEP 3010—Adapted Physical Education (3 cr)</td>
<td></td>
</tr>
<tr>
<td>PEP 3035—Physiology and Mechanics of Physical Activity (3 cr)</td>
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<tr>
<td>PEP 3700—Student Assessment in Physical Education (3 cr)</td>
<td></td>
</tr>
</tbody>
</table>

**Diversity Immersion Experience Requirement**

Candidates must spend a minimum of 40 hours at a formal or nonformal educational setting that has a high percentage (greater than 50 percent) of children, young adults, or families from diverse communities. The format of this experience allows candidates to observe, interact, and reflect in an educational setting guided by focus questions and recommended readings. Evidence of completion of this requirement will be included in candidates’ professional portfolios.

Students must meet this requirement after they take EDUC 1101 and before they complete their education program. Registration for credit is not required for this experience; however, candidates who wish to earn credit may register for EDUC 4991.

**Block I**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDSE 4501—Educational Psychology (3 cr)</td>
<td></td>
</tr>
<tr>
<td>EDSE 4120—Philosophy and Organization of the Middle School (2 cr)</td>
<td></td>
</tr>
<tr>
<td>HPER 3000—Organization and Administration of Health, Physical Education, and Recreation (3 cr)</td>
<td></td>
</tr>
</tbody>
</table>

**Block II**

Students must apply for student teaching while enrolled in Block II courses. Applications must be submitted by the 5th Friday of the semester. Block II is also the time to take the PRAXIS II exam. This exam is required for licensure in Minnesota.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDSE 4100—Human Relations in Classrooms (2 cr)</td>
<td></td>
</tr>
<tr>
<td>EDSE 4214—Reading in the Middle and Secondary School, Grades 5–12 (2 cr)</td>
<td></td>
</tr>
</tbody>
</table>
EdUCation & HumAn SerViCe ProFessioNs

EDUC 4381—Teaching American Indian Students (2 cr)
Pep 3970—Supervised Teaching: College (1 cr)
Take all of the following in the same term:
Pep 3730—Secondary Physical Education Methods (4 cr)
Pep 3731—Apprenticeship: Secondary (2 cr)
Block III
EdNe 4608 (register for 6 cr)
EdNe 4650 (register for 6 cr)
EdNe 4400—Professional Development Seminar for Secondary Education Majors (1 cr)
EdNe 4600—Student Teaching (6-12 cr)
EdUC 4500—Professional Issues in Teaching (1 cr)
ELED 4650—Student Teaching in Individual Subjects: K-8 (1-6 cr)

Program Sub-Plans
A sub-plan is not required for this program.

OutDooR Education
The concentration in outdoor education is a series of courses that, in addition to the required courses for the physical education major, provide coursework to enable the student to incorporate outdoor education skills into its curriculum. This concentration better prepares the physical education teacher for professional expectations.

Outdoor education courses (4 cr)

Required Courses (8 cr)
Pep 3507—Teaching Outdoor Skills (2 cr)
Ened 4163—Outdoor Education Methods (3 cr)
Pep 1530—Rock Climbing, Pe (1 cr)
Pep 3509—Teaching Canoeing (1 cr)
Pep 3501—Teaching Cross-Country Skiing (1 cr)

Electives (3 cr)
Take 3 or more credit(s) from the following:
Ened 3300—Outdoor Leadership (1 cr)
Ened 3310—Outdoor Leadership Field Experience (2 cr)
Ened 4410—Ropes Course Management (3 cr)
Pep 1507—Introduction to River Kayaking, Pe (1 cr)
Pep 1512—Fishing Skills, Pe (1 cr)
Pep 1511—Sea Kayaking (1 cr)

Psychology B.A.Sc.

Psychology
Required credits to graduate with this degree: 120 Required credits within the major: 48
The bachelor of applied science (B.A.Sc.) in psychology provides students with a firm grounding in the methods, history, and content areas of the discipline. Students are prepared for graduate study leading to advanced degrees in psychology or for paraprofessional positions requiring some application of research or human service delivery skills. The core curriculum covers the research methods used in the scientific study of behavior, and surveys theories, findings, and historical applications in a variety of psychology subfields. Students apply their methodology training to a topic of their choice in a faculty-supervised independent research project during the design and methodology courses of the core curriculum. In addition, the core curriculum requires some exposure to the main areas of the discipline. Students also have the opportunity to focus their study toward either graduate training or paraprofessional employment through their selection of elective courses (recommended as “tracks”), independent studies, or internships. Students should consult with faculty advisers to select appropriate elective courses to meet their career goals.
Students may qualify for department, college or University awards and scholarships. Please visit www.d.umn.edu/cehsp/scholarships/index.html. Students are encouraged to present their research findings at the Twin Ports Undergraduate Psychology Conference or the National Council for Undergraduate Research.

Distance Education—Many psychology courses are available online. An online major is available for students who have completed an associate degree in psychology from one of the partner community colleges. Please call the Department of Psychology or visit the Web site at www.d.umn.edu/psych for more information.

Honors Requirements—Senior students who have a minimum GPA of 3.80 in all psychology courses graduate with department honors in psychology. Senior students who have a GPA between 3.25 and 3.79 in all psychology courses and also have an overall GPA minimum of 3.00 may earn department psychology honors by doing one of the following: 1) complete an honors research project (PSY 3998) or an application project (PSY 3997) under the supervision of a psychology faculty member; 2) take an honors seminar (PSY 3576 or 3) and apply for and conduct a UROP (Undergraduate Research Opportunity Project). Students eligible for honors are urged to consult with their advisers or a psychology department faculty member on how they wish to pursue departmental honors before the end of their junior year.

Admission Requirements
Students must complete 24 credits before admission to the program. Freshmen 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.

Students are admitted to UMD as pre-psychology majors. Pre-psychology majors, or students with other declared majors, who have an overall GPA of 2.50, a minimum of 24 completed credits, and have taken PSY 1003—General Psychology or equivalent may declare psychology as a major by contacting the Department of Psychology. Progress toward completion of degree requirements is continuously tracked by the UMD Registrar’s APAS system.

For admission to the online major, graduates from partner community colleges must have a 2.50 GPA. It is best if students have already completed a course in general psychology. Admissions are for fall only. For information about UMD admission requirements, visit the UMD Office of Admissions Web site.

General Requirements
In addition to the program-specific requirements listed below, all students are required to complete general University and college requirements including composition and liberal education courses. For more information, see the Liberal Education Program section of this catalog, and general degree requirements listed in each college section.

Recommended freshman writing course(s) for this program: COMP 1120—College Writing.

Program Requirements
Requirements for the B.A.Sc. in psychology include:
- Liberal education requirements—BIOL 1001 or BIOL 1000 must be used to satisfy Category 4.
- Advanced writing requirement: COMP 3140—Advanced Writing: Human Services or COMP 3160—Advanced Writing: Social Sciences (3 cr). Students are strongly encouraged to take Advanced Writing before taking PSY 3021.
- 20 credits of PSY 3xxx or higher applied to the B.A.Sc. must be taken in residence at UMD.
- A minor program of the student’s choice or 18 additional 3xxx credits or higher outside the major.

- 10-12 4 credit(s) required
- 4 credit(s) recommended
Online Psychology
Students in this program should complete the requirements listed in the online psychology sub-plan.

Program Sub-Plans
A sub-plan is not required for this program.

Online Psychology Major
B.A. Sc. psychology major (only) in an online format. The remaining credits can be taken at another institution which allows for great flexibility.

Psychology major courses (48 cr)
AA degree, assumes 59 credits completed before starting the online major.

The research methods courses are considered to be the capstone experience for the program. The requirements for the online major are identical to those of the existing major but are structured to facilitate the delivery in the online medium. The research methods courses require students to design and conduct a study. The online major content has been spread over three semesters to meet the same research objectives as in the traditional program.

Required Courses for Online Psychology Major
This online major has the same requirements as the regular major with the following exceptions. PSY 2003 is NOT required and the following 3 core courses replace PSY 3021 and PSY 3022.

PSY 4021—Research Methods I (4 cr)
PSY 4022—Research Methods II (4 cr)
PSY 4023—Research Methods III (3 cr)

Psychology Minor
Required credits in this minor: 18

The undergraduate minor in psychology provides students with a basic survey of psychological theories and findings and a required emphasis on life span developmental processes.

Minor Requirements
At least 8 credits of the minor must be completed in residence at UMD.

Psychology Minor Courses
PSY 1003—General Psychology, LE CAT6 (4 cr)
PSY 2021—Developmental Psychology, LE CAT6 (4 cr)

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

Education and Human Service Professions

Recreation-Outdoor Education
B.A.Sc.

Health, Physical Education, and Recreation
Required credits to graduate with this degree: 120
Required credits within the major: 94
This program requires summer terms.
The bachelor of applied science (B.A.Sc.) in recreation—outdoor education prepares students for professional careers in outdoor education allowing them to work in nonformal outdoor education settings such as nature centers; city, state, or national parks; college outdoor programs; or for commercial agencies. Core components include program planning and delivery, education methods, physical skills development, management, facilities coordination, evaluation, and principles of recreation. The recreation major is a four-year curriculum including one full semester of field placement in an outdoor educational setting.

This major provides professional training for nontraditional education settings that may not require a teaching license as a prerequisite credential. Refer to the environmental education emphasis under the teaching life science and/or teaching earth and space science majors for training that includes a teaching licensure.

Admission Requirements
Students must complete 25 credits before admission to the program. Freshmen and transfer students are usually admitted to the pre-major status.

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:
Students are admitted to UMD as pre-recreation majors. Students are encouraged to apply by the end of their freshman year.

No grades lower than C- in courses required for the major.

Advanced writing requirement: COMP 2120—Writing: Professional (3 cr) or COMP 3160—Advanced Writing: Social Services (3 cr)

Enrollment in ENED 4996 requires an overall GPA of 2.50. Students must complete a full semester (12 credits) of field placement at a pre-approved site. A minimum of 600 contact hours must be completed. Students may complete their internship at a site located locally, nationally, or internationally. All required coursework must be completed prior to enrollment in ENED 4996.

Required credits within the major: 94:

BIO 1011—General Biology I LE CAT4 (5 cr)
or BIO 1012—General Biology II (5 cr)

Take 2 or more credit(s) from the following:

Advanced writing requirement: COMP 3160—Advanced Writing: Social Services (3 cr)

Skill Competency: Students who enroll in Physical Education Professional (PEP) teaching skill courses must demonstrate advanced skills competencies for the course. Descriptions of skills required should be reviewed with the course instructor before enrollment.

Exit Standard
Students must complete a full semester (12 credits) of field placement at a pre-approved site. A minimum of 600 contact hours must be completed. Students may complete their internship at a site located locally, nationally, or internationally. All required coursework must be completed prior to enrollment in ENED 4996.
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.

Acceptance into this minor requires a minimum GPA of 2.50 plus application to the Department of Health, Physical Education, and Recreation (HPER).

Minor Requirements

Lower Division Core (7–8)

RECO 1000—Introduction to Recreation (4 cr)

Take the following course or course pair:

HLTH 3620—Wilderness First Response (3 cr)
OR HLTH 1650—CPR/AFS for the Professional Rescue (1 cr)

HLTH 1700—First Responder (3 cr)

Upper Division Core (16 cr)

ENED 3337—Organization of Environmental Education Centers (2 cr)
ENED 4410—Ropes Course Management (3 cr)
ENED 4601—Wilderness Philosophy (2 cr)
ENED 5165—Theories and Models in Outdoor Education (2 cr)
ENED 5325—Environmental Issues Investigation (3 cr)
ENED 5998—Outdoor Education Seminar (1 cr)
HPER 3000—Organization and Administration of Health, Physical Education, and Recreation (3 cr)
PE 2240—Lifeguarding Today (1 cr)
PEP 3905—Teaching Whitewater Kayaking (1 cr)
PEP 3906—Teaching Sea Kayaking (1 cr)
PEP 3908—Teaching Rock Climbing (1 cr)
PEP 3520—Alpine Ski Instructor’s Course (1 cr)
PEP 3507—Teaching Outdoor Skills (2 cr)
RECO 2300—Recreation Programming (3 cr)
RECO 4997—Recreation Practicum (3 cr)
REC 3xxx-5xxx
Take 5 or more credit(s) from the following:

REC 3xx
REC 4xx
REC 5xx

Teaching Communication Arts and Literature B.A.A.

Education, English

Required credits to graduate with this degree: 120 Required credits within the major: 95 to 96

The B.A.A. in teaching communication arts/literature is offered by the Department of Education in conjunction with the Departments of English, Communication, Composition and Linguistics. This program is required for students seeking teacher licensure as Minnesota communication arts/literature teachers for grades 5 through 12.

Admission Requirements

Students must complete 45 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.

Students entering the secondary and K–12 licensure programs are bound by the policies in effect at the time of application to the licensure program. Admission is based on criteria established by the Department of Education that are consistent with Minnesota policies as well as standards established by the National Council for Accreditation in Teacher Education.

A student must have:

1. completed EDUC 1101;
2. a GPA of at least 2.50 overall and in major courses completed at the time of application;
3. taken the Pre-Professional Skills test (PPST); and
4. passing scores on a nationally recognized standardized test such as the PPST, ACT, or SAT. Students must submit a letter of application, résumé, letters of recommendations, and a copy of the their Academic Progress Audit System (APAS) report.

There are alternatives to these established admission procedures to encourage the participation of individuals from underrepresented groups and other students as determined by the department. For information about UM-D admissions requirement visits the UM-D Admissions Web site.

Lower Division (18 cr)

COMM 1112—Public Speaking, LE CAT3 (3 cr)
COMM 1222—Interpersonal Communication, LEOC CAT3 (3 cr)
COMM 1500—Media and Society, LE CAT8 (3 cr)
EDUC 1101—Education in Modern Society, LE CAT7 (3 cr)
ENGL 1582—Introduction to World Literatures, LEP CAT9 (3 cr)
LING 1811—Introduction to Language, LE CAT2 (3 cr)

General Requirements

In addition to the program-specific requirements listed below, all students are required to complete general University and college requirements including composition and liberal education courses. For more information, see the Liberal Education Program section of this catalog, and general degree requirements listed in each college section. Recommended freshman writing course(s) for this program: COMP 1120—College Writing.

Program Requirements

Requirements for the B.A.A. in teaching communication arts and literature include:

• Liberal education requirements
• Advanced writing requirement: COMP 3100 or COMP 3140 or ENGL 3115 or ENGL 3211 or ENGL 5166 or ENGL 5122

• Make satisfactory academic progress and demonstrate acceptable professional performance in field experiences.
• Registration for student teaching in the senior year requires: 3.00 GPA overall or 3.20 in major courses; grades of C+ or better in all courses in the teaching major(s) and minor(s); completion (graded) of all education block courses; completion of at least 85 percent of teaching major courses.
• Students must have personal liability insurance while they are working in field placement settings.
• Program completers must pass all tests required by the Minnesota Board of Teaching to be recommended for licensure.
Teaching Earth and Space Science B.A.Sc.

Education, Geological Sciences

Required credits to graduate with this degree: 120 credits
Required credits within the major: 107
This program requires summer terms.

The B.A.Sc. in teaching earth and space sciences is offered by the Department of Education in conjunction with the Department of Geological Sciences. This major is for students who plan to teach all science areas in grades 5 through 8 and teach earth and space sciences in grades 9 through 12.

Students have the option of also completing the environmental education emphasis with this major. This emphasis enhances the student’s major by integrating environmental education into formal (pre-K–12) as well as nonformal education settings such as parks and nature centers.

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 Requirements

Requirements for the B.A.Sc. in teaching earth and space science include:
• Liberal education requirements
• Advanced writing requirement: COMP 1120—College Writing

Lower Division (54 cr)

EDUC 1101—Education in Modern Society, LE CAT7 (3 cr)
EDUC 1102—Education in Modern Society, LE CAT7 (3 cr)
ENED 3342—Field Interpretive Techniques II (3 cr)
EGEO 3401—Weather and Climate (3 cr)
GEOL 4110—Advanced Earth Science for Teachers (2 cr)
GEOL 4210—Geomorphology (3 cr) or GEOL 4219—The Earth’s Dynamic Interior (3 cr)
Diversity Immersion Experience Requirement

Candidates must spend a minimum of 40 hours at a formal or nonformal educational setting that has a high percentage (greater than 50 percent) of children, young adults, or families from diverse communities. The format of this experience allows candidates to observe, interact, and reflect in an educational setting guided by focus questions and recommended readings. Evidence of completion of this requirement is included in candidates’ professional portfolios.

Students must meet this requirement after they take EDUC 1101 and before they complete their education program. Registration for credit is not required for this experience; however, candidates who wish to earn credit may register for EDUC 4991.

Program Sub-Plans

A sub-plan is not required for this program.

Environmental Education

This emphasis enhances the student’s major by integrating environmental education into formal (pre-K–12) as well as nonformal education settings such as parks and nature centers.

A student in this emphasis must meet the same GPA requirements as for the major. The emphasis is noted on the student’s diploma.

Environmental Education Courses (31–32 cr)

ENED 3110—Outdoor Leadership I (1 cr)
ENED 3120—Outdoor Skills (2 cr)
ENED 3130—Outdoor Leadership II (2 cr)
ENED 3140—Outdoor Leadership III (2 cr)
ENED 4163—Outdoor Education Methods (3 cr)
ENED 5236—Environmental Education for Teachers (0.5–3 cr)
PHYS 1001—Introduction to Physics I, LE CAT4 (5 cr)
PHYS 1002—Introduction to Physics II (5 cr)

Recommended freshman writing course(s) for this program: COMP 1120—College Writing

Success in this major is dependent on completing the environmental education emphasis with this major. This emphasis enhances the student’s major by integrating environmental education into formal (pre-K–12) as well as nonformal education settings such as parks and nature centers.

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

Program Requirements

Requirements for the B.A.Sc. in teaching earth and space science include:
• Liberal education requirements
• Advanced writing requirement: COMP 3140—Advanced Writing: Human Services or COMP 3150—Advanced Writing: Science (3 cr)
• Make satisfactory academic progress and demonstrate acceptable professional performance in field experiences

Students entering the secondary and K–12 licensure programs are bound by the policies in effect at the time of application to the licensure program. Admission is based on criteria established by the Department of Education that are consistent with Minnesota policies and standards established by the National Council for Accreditation in Teacher Education.

A student must have:
1. completed EDUC 1101;
2. a GPA of at least 2.50 overall and in major courses completed at the time of application;
3. taken the Pre-Professional Skills test (PPST);
4. passing scores on a nationally recognized standardized test such as the PPST, ACT, or SAT; and
5. documented hours working with students in grade 5–12. Students must submit a letter of application, résumé, letters of recommendation, and a copy of the their APAS report.

There are alternatives to these established admission procedures to encourage individuals from underrepresented groups and other students as determined by the department.

For information about UMD admission requirements, visit the UMD Office of Admissions Web site.

Required for Admission

EDUC 1101—Education in Modern Society, LE CAT7 (3 cr)
EDUC 1102—Education in Modern Society, LE CAT7 (3 cr)
EDUC 4234—Science, Technology, and Society (3 cr)
EDUC 4381—Teaching American Indian Students (2 cr)
EDUC 4500—Professional Issues in Teaching (1 cr)
EDSE 3205—General Instructional Methods (4 cr)
EDSE 3202—Apprenticeship: Middle School (2 cr)
EDSE 3206—Apprenticeship: Secondary School (2 cr)
EDSE 4000—Human Relations in Classrooms (2 cr)
EDSE 4114—Reading in the Middle and Secondary School, Grades 5–12 (2 cr)
EDSE 4225—Teaching Science: Grades 5–12 (3 cr)
EDSE 4400—Professional Development Seminar for Secondary Education Majors (1 cr)
EDSE 4501—Educational Psychology (3 cr)
EDSE 4600—Student Teaching (6–12 cr)
HSTH 4120—Philosophy and Organization of the Middle School (2 cr)
GEOG 3401—Weather and Climate (3 cr)
GEOL 4110—Advanced Earth Science for Teachers (2 cr)
HHTH 5302—Drug Education (2 cr)
GEOL 5210—Geomorphology (3 cr) or GEOL 5219—The Earth’s Dynamic Interior (3 cr)
Diversity Immersion Experience Requirement

Candidates must spend a minimum of 40 hours at a formal or nonformal educational setting that has a high percentage (greater than 50 percent) of children, young adults, or families from diverse communities. The format of this experience allows candidates to observe, interact, and reflect in an educational setting guided by focus questions and recommended readings. Evidence of completion of this requirement is included in candidates’ professional portfolios.

Students must meet this requirement after they take EDUC 1101 and before they complete their education program. Registration for credit is not required for this experience; however, candidates who wish to earn credit may register for EDUC 4991.

Program Sub-Plans

A sub-plan is not required for this program.

Environmental Education

This emphasis enhances the student’s major by integrating environmental education into formal (pre-K–12) as well as nonformal education settings such as parks and nature centers.

A student in this emphasis must meet the same GPA requirements as for the major. The emphasis is noted on the student’s diploma.

Environmental Education Courses (31–32 cr)

ENED 3110—Outdoor Leadership I (1 cr)
ENED 3120—Outdoor Skills (2 cr)
ENED 3130—Outdoor Leadership II (2 cr)
ENED 3140—Outdoor Leadership III (2 cr)
ENED 4163—Outdoor Education Methods (3 cr)
ENED 5236—Environmental Education for Teachers (0.5–3 cr)
PHYS 1001—Introduction to Physics I, LE CAT4 (5 cr)
PHYS 1002—Introduction to Physics II (5 cr)

Required for Admission

EDUC 1101—Education in Modern Society, LE CAT7 (3 cr)
EDUC 1102—Education in Modern Society, LE CAT7 (3 cr)
EDUC 4234—Science, Technology, and Society (3 cr)
EDUC 4381—Teaching American Indian Students (2 cr)
EDUC 4500—Professional Issues in Teaching (1 cr)
EDSE 3205—General Instructional Methods (4 cr)
EDSE 3202—Apprenticeship: Middle School (2 cr)
EDSE 3206—Apprenticeship: Secondary School (2 cr)
EDSE 4000—Human Relations in Classrooms (2 cr)
EDSE 4114—Reading in the Middle and Secondary School, Grades 5–12 (2 cr)
EDSE 4225—Teaching Science: Grades 5–12 (3 cr)
EDSE 4400—Professional Development Seminar for Secondary Education Majors (1 cr)
EDSE 4501—Educational Psychology (3 cr)
EDSE 4600—Student Teaching (6–12 cr)
HSTH 4120—Philosophy and Organization of the Middle School (2 cr)
GEOG 3401—Weather and Climate (3 cr)
GEOL 4110—Advanced Earth Science for Teachers (2 cr)
HHTH 5302—Drug Education (2 cr)
GEOL 5210—Geomorphology (3 cr) or GEOL 5219—The Earth’s Dynamic Interior (3 cr)
Diversity Immersion Experience Requirement

Candidates must spend a minimum of 40 hours at a formal or nonformal educational setting that has a high percentage (greater than 50 percent) of children, young adults, or families from diverse communities. The format of this experience allows candidates to observe, interact, and reflect in an educational setting guided by focus questions and recommended readings. Evidence of completion of this requirement is included in candidates’ professional portfolios.

Students must meet this requirement after they take EDUC 1101 and before they complete their education program. Registration for credit is not required for this experience; however, candidates who wish to earn credit may register for EDUC 4991.

Program Sub-Plans

A sub-plan is not required for this program.

Environmental Education

This emphasis enhances the student’s major by integrating environmental education into formal (pre-K–12) as well as nonformal education settings such as parks and nature centers.

A student in this emphasis must meet the same GPA requirements as for the major. The emphasis is noted on the student’s diploma.
Admission Requirements
Students must complete 45 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.

Students entering the secondary and K–12 licensure programs are bound by the policies in effect at the time of application to the licensure program. Admission is based on criteria established by the Department of Education that are consistent with Minnesota policies as well as standards established by the National Council for Accreditation in Teacher Education.

A student must have:
1. completed EDUC 1101;
2. a GPA of at least 2.50 overall and in major courses completed at the time of application;
3. taken the Pre-Professional Skills Test (PPST); and
4. passing scores on a nationally recognized standardized test such as the PPST, ACT, or SAT.

Students must submit a letter of application, résumé, letters of recommendations, and a copy of their Academic Progress Audit System (APAS) report.

There are alternatives to these established admission procedures to encourage the participation of individuals from underrepresented groups and other students as determined by the department. For information about UMD admission requirements, visit the UMD Office of Admissions Web site.

Lower Division (3–23 cr)
Students may be exempted from part or all of the lower division requirements if they have previously completed French language coursework. Department of Foreign Languages and Literatures determines exemptions based on acceptance of transfer credits and work done in secondary school.

Students with 3 years of high school French enter the sequence at the intermediate French level and are exempted from FR 1101–1102. Exemption does not necessarily carry credits toward the 120 credits needed for graduation.

EDUC 1101—Education in Modern Society, LE CAT7 (3 cr)
FR 1101—Beginning French I, LE CAT3 (4 cr)
FR 1102—Beginning French II, LE CAT3 (4 cr)
FR 1201—Intermediate French I, LE CAT3 (4 cr)
FR 1202—Intermediate French II, LEIP CAT3 (4 cr)
FR 2301—Advanced French, LEIP CAT3 (4 cr)

General Requirements
In addition to the program-specific requirements listed below, all students are required to complete general University and college requirements including composition and liberal education courses. For more information, see the Liberal Education Program section of this catalog, and general degree requirements listed in each college section. Recommended freshman writing course(s) for this program: COMP 1120—College Writing.

Requirements for the B.A.A. in teaching French include:
• Liberal education requirements: recommend—ENGL 1907 (Cat 9) and LING 1811 (Cat 2)
• Advanced writing requirement: COMP 3140—Advanced Writing: Human Services (3 cr)
• French majors and minors are exempted from the campus-wide requirement for international perspectives courses; cultural diversity requirement must be met
• Study abroad is essential for success in learning French
• Make satisfactory academic progress and demonstrate acceptable professional performance in field experiences
• Registration for student teaching in the senior year requires: 3.00 GPA in major courses; grades of C- or better in all courses in the teaching major(s) and minor(s); completion (graded) of all education block courses, including LANG 4044; completion of at least 85 percent of teaching major courses; having passed the oral proficiency exam and permission from faculty in foreign language program
• Students must have personal liability insurance while they are working in field placement settings.

Program completers must pass all tests required by the Minnesota Board of Teaching to be recommended for licensure.

Exit Standards
Students must successfully complete an oral proficiency exam administered by the Department of Foreign Languages and Literatures before student teaching.

Teaching German B.A.A.

Education, Foreign Languages and Literatures
Required credits to graduate with this degree: 120

The B.A.A. in teaching German is offered through the Department of Education in conjunction with the Department of Foreign Languages and Literatures. This major prepares students to teach German from kindergarten through grade 12.

Note: Students pursuing both the B.A. and B.A.A. degrees in German must satisfactorily complete 12 non-overlapping upper division credits of German electives beyond the requirements for both degrees.

Students must meet this requirement after they take EDUC 1101 and before they complete their education program. Registration for credit is not required for this experience; however, candidates who wish to earn credit may register for EDUC 4991.

Upper Division (63 cr)
Some of the upper division French courses may be transferred from another college or earned abroad, but at least two courses must be taken at UMD.

EDUC 3412 (register for 4 cr)
EDSE 4609 (register for 12 cr)
EDUC 4341—Teaching American Indian Students (2 cr)
EDUC 4500—Professional Issues in Teaching (1 cr)
EDSE 3204—General Instructional Methods (4 cr)
EDSE 3205—Apprenticeship: Middle School (2 cr)
EDSE 3206—Apprenticeship: Secondary School (2 cr)
EDSE 4100—Human Relations in Classrooms (2 cr)
EDSE 4214—Reading in the Middle and Secondary School, Grades 5–12 (2 cr)
EDSE 4400—Professional Development Seminar for Secondary Education Majors (1 cr)
EDUC 4600—Student Teaching (6–12 cr)
EDSE 4120—Philosophy and Organization of the Middle School (2 cr)
ELED 3113—Learning Environments and Diverse Learning Communities (3 cr)
HLTH 3202—Drug Education (2 cr)
LANG 4044—Language Teaching Methods (4 cr)
FR 3xxx–5xxx: Including one culture course taught in French (20 cr)

Admission Requirements
Students must complete 45 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.

Students entering the secondary and K–12 licensure programs are bound by the policies in effect at the time of application to the licensure program. Admission is based on criteria established by the Department of Education that are consistent with Minnesota policies as well as standards established by the National Council for Accreditation in Teacher Education.

A student must have:
1. completed EDUC 1101;
2. a GPA of at least 2.50 overall and in major courses completed at the time of application;
3. taken the Pre-Professional Skills test (PPST); and
4. passing scores on a nationally recognized standardized test such as the PPST, ACT, or SAT.

Students submit a letter of application, résumé, letters of recommendations, and a copy of their Academic Progress Audit System (APAS) report.

There are alternatives to these established admission procedures to encourage the participation of individuals from underrepresented groups and other students as determined by the department. For information about UMD admission requirements, visit the UMD Office of Admissions Web site.

Lower Division (3–23 cr)
Students may be exempted from part or all of the lower division requirements if they have previously completed German language coursework. Dept. of Foreign Languages and Literatures determines exemptions based on acceptance of transfer credits and work done in secondary school.

Students with 3 years of high school German enter sequence at the intermediate German level and are exempted from FR 1101–1102. Exemption does not necessarily carry credits toward the 120 credits needed for graduation.

EDUC 1101—Education in Modern Society, LE CAT7 (3 cr)
GER 1101—Beginning German I, LE CAT3 (4 cr)
GER 1102—Beginning German II, LE CAT3 (4 cr)
GER 1201—Intermediate German I, LE CAT3 (4 cr)
GER 1202—Intermediate German II, LEIP CAT3 (4 cr)
GER 2301—Advanced German, LEIP CAT3 (4 cr)
General Requirements
In addition to the program-specific requirements listed below, all students are required to complete general University and college requirements including composition and liberal education courses. For more information, see the Liberal Education Program section of this catalog, and general degree requirements listed in each college section. Recommended freshman writing course(s) for this program: COMP 1120—College Writing.

Program Requirements
Requirements for the B.A.A. in teaching German include:

- Liberal education requirements: recommended—ENGL 1907 (Cat 9) and LING 1811 (Cat 2)
- Advanced writing requirement: COMP 3140—Advanced Writing: Human Services (3 cr)
- German majors and minors are exempted from the campus-wide requirement for international perspectives courses
- Study abroad is essential for success in learning German
- Make satisfactory academic progress and demonstrate acceptable professional performance in field experiences
- Registration for student teaching in the senior year requires: 3.00 GPA in major courses; grades of C- or better in all courses in the teaching major(s) and minor(s); completion (graded) of all education block courses, including LANG 4044; completion of at least 85 percent of teaching major courses; having passed the oral proficiency exam and permission from faculty in the foreign languages program.
- Students must have personal liability insurance while they are working in field placement settings
- Program completers must pass all tests required by the Minnesota Board of Teaching to be recommended for licensure

Diversity Immersion Experience Requirement
Candidates must spend a minimum of 40 hours at a formal or nonformal educational setting that has a high percentage (greater than 50 percent) of children, young adults, or families from diverse communities. The format of this experience allows candidates to observe, interact, and reflect in an educational setting guided by focus questions and recommended readings. Evidence of completion of this requirement is included in candidates’ professional portfolios.

Students must meet this requirement after they take EDUC 1101 and before they complete their education program. Registration for credit is not required for this experience; however, candidates who wish to earn credit may register for EDUC 4991.

Upper Division (64 cr)
Some of the upper division German courses may be transferred from another college or earned abroad, but at least two courses must be taken at UMD.

EDUC 3412 (register for 4 cr)
EDSE 4600 (register for 12 cr)
EDUC 4312—The Computer in Education (1–4 cr)
EDUC 4381—Teaching American Indian Students (2 cr)
EDUC 4500—Professional Issues in Teaching (1 cr)
EDSE 3204—General Instructional Methods (4 cr)
EDSE 3205—Apprenticeship: Middle School (2 cr)
EDSE 3206—Apprenticeship: Secondary School (2 cr)
EDSE 4100—Human Relations in Classrooms (2 cr)
EDSE 4214—Reading in the Middle and Secondary School, Grades 5–12 (2 cr)
EDSE 4400—Professional Development Seminar for Secondary Education Majors (1 cr)
EDSE 4600—Student Teaching (6–12 cr)
EDSE 4120—Philosophy and Organization of the Middle School (2 cr)
ELED 3113—Learning Environments and Diverse Learning Communities (3 cr)
HLTH 3202—Drug Education (2 cr)
LANG 4044—Language Teaching Methods (4 cr)
Ger 3xx—5xxx: Including one culture course taught in German (20 cr)

Exit Standards
Students must successfully complete an oral proficiency exam administered by the Department of Foreign Languages and Literatures before student teaching.

Teaching Life Science B.A.Sc.

Education, Biology
Required credits to graduate with this degree: 135 to 165
Required credits within the major: 115 to 116
This program requires summer terms.

The B.A.Sc. degree in teaching life science is offered by the Department of Education in conjunction with the Department of Biology. This major prepares students to teach all science areas in grades 5-8 and to teach life science in grades 9 through 12.

Students have the option of also completing the environment education emphasis with this major.

Admission Requirements
Students must complete 45 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.

Students entering the secondary and K–12 licensure programs are bound by the policies in effect at the time of application to the licensure program. Admission is based on criteria established by the Department of Education that are consistent with Minnesota policies and standards established by the National Council for Accreditation in Teacher Education.

A student must have:
1. completed EDUC 1101;
2. a GPA of at least 2.50 overall and in major courses completed at the time of application;
3. taken the Pre-Professional Skills test (PPST);
4. passing scores on a nationally recognized standardized test such as the PPST, ACT, or SAT; and
5. documented hours working with students in grades 5–12. Students must submit a letter of application, résumé, letters of recommendation, and a copy of their APAS report.

There are alternatives to these established admission procedures to encourage individuals from underrepresented groups and other students as determined by the department. For information about UMD admission requirements, visit the UMD Office of Admissions Web site.

Program Requirements
Requirements for the B.A.Sc. in teaching life science include:

- Liberal education requirements
- Advanced writing requirement: COMP 3140—Advanced Writing: Human Services or COMP 3150—Advanced Writing: Science (3 cr)
- Satisfactory academic progress and demonstrate acceptable professional performance in field experiences
- Program completers must pass all tests required by the Minnesota Board of Teaching to be recommended for licensure

Lower Division
AST 1040—Introductory Astronomy, LE CAT5 (3 cr)
BIOL 1011—General Biology I, LE CAT4 (5 cr)
BIOL 1012—General Biology II (5 cr)
BIOL 1761—Human Anatomy (4 cr)
BIOL 2101—Cell Biology (3 cr)
BIOL 2201—Genetics (3 cr)
BIOL 2801—General Ecology (3 cr)
BIOL 2802—Ecology Laboratory (2 cr)
CHEM 1113—Introduction to General, Organic, and Biological Chemistry I, LE CAT4 (5 cr)
CHEM 1114—Introduction to General, Organic, and Biological Chemistry II (5 cr)
GEOL 1110—Geology and Earth Systems, LE CAT4 (4 cr)
MATH 1250—Precalculus Analysis, LE CAT2 (4 cr)
PHYS 1001—Introduction to Physics I, LE CAT4 (5 cr)
PHYS 1002—Introduction to Physics II (5 cr)

Upper Division
Registration for student teaching in the senior year requires:
2.50 GPA overall and in major courses; grades of C- or better in all courses in the teaching major(s) and minor(s); completion (graded) of all education block courses; and completion of at least 85 percent of teaching major courses. Students must have personal liability insurance while they are working in field placement settings.

EDUC 3412 (register for 4 cr)
EDSE 4600 (register for 12 cr)
EDSE 4801—Evolution (2 cr)
EDUC 4312—The Computer in Education (1–4 cr)
EDUC 4234—Science, Technology, and Society (3 cr)
EDUC 4381—Teaching American Indian Students (2 cr)
EDUC 4500—Professional Issues in Teaching (1 cr)
EDSE 3204—General Instructional Methods (4 cr)
EDSE 3205—Apprenticeship: Middle School (2 cr)
EDSE 3206—Apprenticeship: Secondary School (2 cr)
EDSE 4100—Human Relations in Classrooms (2 cr)
EDSE 4214—Reading in the Middle and Secondary School, Grades 5–12 (2 cr)
EDUSC 4355—Teaching Science: Grades 5–12 (3 cr)
EDSE 4400—Professional Development Seminar for Secondary Education Majors (1 cr)
EDSE 4501—Educational Psychology (3 cr)
EDSE 4600—Student Teaching (6–12 cr)
Education and Human Service Professions

EDSE 4120—Philosophy and Organization of the Middle School (2 cr)
GEOL 4110—Advanced Earth Science for Teachers (2 cr)
HLTH 3202—Drug Education (2 cr)
GEOL 3210—Geomorphology (3 cr)
or GEOL 3211—Earth History (3 cr)
or GEOL 2110—The Earth’s Dynamic Interior (3 cr)
BIOL 3703—Animal Physiology (3 cr)
or PHSL 3011—General Physiology (4 cr)

Diversity Immersion Experience Requirement
Candidates must spend a minimum of 40 hours at a formal or nonformal educational setting that has a high percentage (greater than 50 percent) of children, young adults, or families from diverse communities. The format of this experience allows candidates to observe, interact, and reflect in an educational setting guided by focus questions and recommended readings. Evidence of completion of this requirement is included in candidates’ professional portfolios.

Students must meet this requirement after they take EDUC 1101 and before they complete their education program. Registration for credit is not required for this experience; however, candidates who wish to earn credit may register for EDUC 4991.

Program Sub-Plans
A sub-plan is not required for this program.

Environmental Education
Students may complete the environmental education emphasis with this major. The environmental education emphasis is offered by the Department of Education in conjunction with the Department of Biology and the Department of Health, Physical Education, and Recreation. This emphasis enhances the student’s major by integrating environmental education into formal (pre-K–12) as well as nonformal education settings such as parks and nature centers. This emphasis must be taken in conjunction with the teaching life science or teaching earth and space science majors. The emphasis is noted on the student’s diploma.

Students must complete 30–31 credits for the environmental education emphasis.

Required Courses
ENED 3309—Outdoor Leadership (1 cr)
ENED 3310—Outdoor Leadership Field Experience (2 cr)
ENED 3341—Field Interpretive Techniques I (3 cr)
ENED 3342—Field Interpretive Techniques II (3 cr)
ENED 4163—Outdoor Education Methods (3 cr)
ENED 5236—Environmental Education for Teachers (0.5-3 cr)
PEP 3507—Teaching Outdoor Skills (2 cr)
REC 1203—Outdoor Skills I (2 cr)
REC 1204—Outdoor Skills II (2 cr)
REC 4997—Recreation Practicum (3 cr)

Take the following course or course pair:
HLTH 3620—Wilderness First Response (3 cr)
or HLTH 1650—CPR/AED for the Professional Rescuer (1 cr)
HLTH 1700—First Responder (3 cr)

Electives
Pre-approved natural science courses may be substituted. Take 5 or more credit(s) from the following:
ES 2803—Issues in Global Ecology, LEIP CAT5 (3 cr)
BIOL 3603—Plant Taxonomy (3 cr)
BIOL 4731—Entomology (3 cr)
BIOL 4761—Ichthyology (3 cr)
BIOL 4763—Ornithology (3 cr)
BIOL 5833—Stream Ecology (4 cr)
BIOL 5861—Lake Ecology (3 cr)
ENED 5325—Environmental Issues Investigation (3 cr)
GEOG 3401—Weather and Climate (3 cr)
GEOL 1610—Oceanography, LE CAT5 (3 cr)
GEOL 4210—Glacial and Quaternary Geology (3 cr)

Teaching Mathematics B.A.Sc.

Education, Mathematics and Statistics
Required credits to graduate with this degree: 120
Required credits within the major: 93
This program requires summer terms.
The B.A.Sc. in teaching mathematics is offered by the Department of Education in conjunction with the Department of Mathematics and Statistics. This major is for students who plan to teach mathematics in grades 5–12.

Admission Requirements
Students must complete 45 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.

Students entering the secondary and K–12 licensure programs are bound by the policies in effect at the time of application to the licensure program. Admission is based on criteria established by the Department of Education that are consistent with Minnesota policies as well as standards established by the National Council for Accreditation in Teacher Education.

A student must have:
1. completed EDUC 1101;
2. a GPA of at least 2.50 overall and in major courses completed at the time of application;
3. taken the Pre-Professional Skills test (PPST); and
4. passing scores on a nationally recognized standardized test such as the PPST, ACT, or SAT.

Students must submit a letter of application, resume, letters of recommendations, and a copy of their Academic Progress Audit System (APAS) report.

There are alternatives to these established admission procedures to encourage the participation of individuals from underrepresented groups and other students as determined by the department.

For information about UMD admission requirements, visit the UMD Office of Admissions Web site.

Lower Division (18 cr)
CS 1511—Computer Science I, LE CAT3 (5 cr)
EDUC 1101—Education in Modern Society, LE CAT7 (3 cr)
MATH 1296—Calculus I, LE CAT2 (5 cr)
MATH 1297—Calculus II (5 cr)

General Requirements
In addition to the program-specific requirements listed below, all students are required to complete general University and college requirements including composition and liberal education courses. For more information, see the Liberal Education Program section of this catalog, and general degree requirements listed in each college section. Recommended freshman writing course(s) for this program: COMP 1120—College Writing.

Program Requirements
Requirements for the B.A.Sc. in teaching mathematics include:
• Liberal education requirements
• Advanced writing requirement: COMP 3140—Advanced Writing: Human Services or COMP 3150—Advanced Writing: Science (3 cr)
• Make satisfactory academic progress and demonstrate acceptable professional performance in field experiences
• Program completers must pass all tests required by the Minnesota Board of Teaching to be recommended for licensure

Upper Division (75 cr)
Registration for student teaching in the senior year of Teaching is required: 2.50 GPA overall and in major courses; grades of C- or better in all courses in the teaching major(s) and minor(s); completion (graded) of all education block courses; and completion of at least 85 percent of teaching major courses. Students must have personal liability insurance while they are working in field placement settings.

EDUC 3412 (register for 4 cr)
EDSE 4060 (register for 12 cr)

EDSE 1204—General Instructional Methods (4 cr)
EDSE 1205—Apprenticeship: Middle School (2 cr)
EDSE 1206—Apprenticeship: Secondary School (2 cr)
EDSE 4100—Human Relations in Classrooms (2 cr)
EDSE 4120—Philosophy and Organization of the Middle School (2 cr)
EDSE 4214—Reading in the Middle and Secondary School, Grades 5–12 (2 cr)
EDSE 4222—Teaching Mathematics: Grades 5–12 (4 cr)
EDSE 4400—Professional Development Seminar for Secondary Education Majors (1 cr)
EDSE 4501—Educational Psychology (3 cr)
EDSE 4600—Student Teaching (6–12 cr)
EDUC 3412—The Computer in Education (1–4 cr)
EDUC 4226—Geometry for Teachers in Grades 5-8 (3 cr)
EDUC 4227—Number Theory for Teachers in Grades 5-8 (3 cr)
EDUC 4228—Teaching Mathematics with Technology (3 cr)
EDUC 4381—Teaching American Indian Students (2 cr)
EDUC 4500—Professional Issues in Teaching (1 cr)
HLTH 3202—Drug Education (2 cr)
MATH 3110—Foundations of Mathematics and Geometry (4 cr)
MATH 3280—Differential Equations with Linear Algebra (4 cr)
MATH 3299—Intermediate Analysis (3 cr)
MATH 3355—Discrete Mathematics (4 cr)
MATH 3941—Undergraduate Colloquium (1 cr)
MATH 4371—Introduction to Abstract Algebra (3 cr)
STAT 3011—Introduction to Probability and Statistics (4 cr)

Diversity Immersion Experience
Candidates must spend a minimum of 40 hours at a formal or nonformal educational setting that has a high percentage (greater than 50 percent) of children, young adults, or families from diverse communities. The format of this experience allows candidates to observe, interact, and reflect in an educational setting guided by focus questions and recommended readings. Evidence of completion of this requirement will be included in candidates’ professional portfolios.

Students must meet this requirement after they take EDUC 1101 and before they complete their education program. Registration for credit is not required for this experience; however, candidates who wish to earn credit may register for EDUC 4991.
Teaching Physical Science  
**B.A.Sc.**

**Chemistry and Biochemistry, Education, Physics**

Required credits to graduate with this degree: 132 to 137

Required credits within the major: 111 to 115

This program is 9 terms (4½ years) long. Students can choose to complete the chemistry emphasis or the physics emphasis.

**Admission Requirements**

Students must complete 45 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.

Students entering the secondary and K–12 licensure programs are bound by the policies in effect at the time of application to the licensure program. Admission is based on criteria established by the Department of Education that are consistent with Minnesota policies and standards established by the National Council for Accreditation in Teacher Education. A student must have:

- 1. completed EDUC 1101;
- 2. a GPA of at least 2.50 overall and in major courses completed at the time of application;
- 3. taken the Pre-Professional Skills test (PPST);
- 4. passing scores on a nationally recognized standardized test such as the PPST, ACT, or SAT, and;
- 5. documented hours working with students in grades 5–12. Students must submit a letter of application, résumé, letters of recommendation, and a copy of their APAS report.

There are alternatives to these established admission procedures that encourage individuals from underrepresented groups and other students as determined by the department.

For information about UMD admission requirements, visit the UMD Office of Admissions Web site.

**General Requirements**

In addition to the program-specific requirements listed below, all students are required to complete general University and college requirements including composition and liberal education courses. For more information, see the Liberal Education Program section of this catalog, and general degree requirements listed in each college section. Recommended freshman writing course(s) for this program: COMP 1120—College Writing.

**Program Requirements**

Requirements for the B.A.Sc. in teaching physical science include:

- Liberal education requirements
- Advanced Writing requirement: COMP 3140—Advanced Writing: Human Services or COMP 3150—Advanced Writing: Science (3 cr)
- Make satisfactory academic progress and demonstrate acceptable professional performance in field experiences
- Registration for student teaching in the senior year requires: 2.50 GPA overall and in major courses; grades of C- or better in all courses in the teaching major(s) and minor(s); completion (graded) of all education block courses; completion of at least 85 percent of teaching major courses
- Students must have personal liability insurance while they are working in field placement settings
- Program completers must pass all tests required by the Minnesota Board of Teaching to be recommended for licensure

**Diversity Immersion Experience Requirement**

Candidates must spend a minimum of 40 hours at a formal or non-formal educational setting that has a high percentage (greater than 50 percent) of children, young adults, or families from diverse communities. The format of this experience allows candidates to observe, interact, and reflect in an educational setting guided by focus questions and recommended readings. Evidence of completion of this requirement will be included in candidates’ professional portfolios.

Students must meet this requirement after they take EDUC 1101 and before they complete their education program. Registration for credit is not required for this experience; however, candidates who wish to earn credit may register for EDUC 4991.

**Chemistry**

The B.A.Sc. degree in teaching physical science—chemistry emphasis is offered by the Department of Education in conjunction with the Department of Chemistry and Biochemistry. This major (111–112 cr) prepares students to teach all science areas in grades 5 through 8 and to teach chemistry in grades 9 through 12.

**Lower Division**

AST 1040—Introductory Astronomy, LE CAT 5 (3 cr)
BIOL 1011—General Biology I, LE CAT 4 (5 cr)
CHEM 1151—General Chemistry I, LE CAT 4 (5 cr)
CHEM 1152—General Chemistry II (5 cr)
CHEM 2222—Quantitative Analysis (3 cr)
CHEM 2223—Quantitative Analysis Laboratory (1 cr)
CHEM 2521—Organic Chemistry I (4 cr)
CHEM 2522—Organic Chemistry II (4 cr)
EDUC 1101—Education in Modern Society, LE CAT 7 (3 cr)
GEOL 1110—Geology and Earth Systems, LE CAT 4 (3 cr)
PHYS 1001—Introduction to Physics I, LE CAT 4 (5 cr)
PHYS 1002—Introduction to Physics II (5 cr)
GEOL 2110—Earth History (3 cr)
or
GEOL 2120—The Earth’s Dynamic Interior (3 cr)
or
GEOL 3210—Geology and Earth Systems, LE CAT 4 (3 cr)
MATH 1290—Calculus for the Sciences, LE CAT 2 (5 cr)
or
MATH 1296—Calculus I, LE CAT 2 (5 cr)

**Upper Division**

CHEM 3322—Biochemistry (3 cr)
CHEM 3324—Biochemistry Laboratory (1 cr)
GEOL 4110—Advanced Earth Science for Teachers (2 cr)

**Physics**

The B.A.Sc. degree in teaching physical sciences—physics emphasis is offered by the Department of Education in conjunction with the Department of Physics. This major (113–115 cr) prepares students to teach all science areas in grades 5 through 8 and to teach physics in grades 9 through 12.

**Lower Division**

AST 1040—Introductory Astronomy, LE CAT 5 (3 cr)
BIOL 1011—General Biology I, LE CAT 4 (5 cr)
BIOL 1012—General Biology II (5 cr)
CHEM 1113—Introduction to General, Organic, and Biological Chemistry I, LE CAT 4 (5 cr)
CHEM 1114—Introduction to General, Organic, and Biological Chemistry II (3 cr)
EDUC 1101—Education in Modern Society, LE CAT 7 (3 cr)
GEOL 1110—Geology and Earth Systems, LE CAT 4 (3 cr)
MATH 1296—Calculus I, LE CAT 2 (5 cr)
MATH 1297—Calculus II (5 cr)
PHYS 2011—General Physics I, LE CAT 4 (4 cr)
PHYS 2012—General Physics II (4 cr)
PHYS 2021—Relativity and Quantum Physics (4 cr)
PHYS 2022—Classical Physics (4 cr)
PHYS 2033—Classical and Quantum Physics Lab (2 cr)
CS 1131—Introduction to Programming in FORTRAN, LE CAT 3 (4 cr)
or
CS 1135—Introduction to Programming in C (4 cr)
or
CS 1140—Introduction to Programming in FORTRAN (5 cr)
GEOL 1110—Geology and Earth Systems, LE CAT 4 (3 cr)
MATH 1290—Calculus for the Sciences, LE CAT 2 (5 cr)
or
MATH 1296—Calculus I, LE CAT 2 (5 cr)

**Upper Division**

PHYS 3061—Instrumentation (3 cr)
GEOL 4110—Advanced Earth Science for Teachers (2 cr)

Teaching Social Studies  
**B.A.A.**

**Education**

Required credits to graduate with this degree: 120 to 124

Required credits within the major: 103

The B.A.A. in teaching social studies prepares students to teach in grades 5 through 12. Social studies is an interdisciplinary major that requires lower division coursework in each of eight areas: anthropology, economics, geography, history, political science, psychology, sociology, and women’s studies. Students then select one of these areas in which to complete an upper division emphasis. Students complete additional coursework in education.

**Admission Requirements**

Students must complete 45 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.

Students entering the secondary and K–12 licensure programs are bound by the policies in effect at the time of application to the licensure program. Admission is based on criteria established by the Department of Education that are consistent with Minnesota policies as well as standards established by the National Council for Accreditation in Teacher Education.

A student must have:
1. completed EDUC 1101;
2. a GPA of at least 2.50 overall and in major courses completed at the time of application; and
3. taken the Pre-Professional Skills Test (PPST); and
4. passing scores on a nationally recognized standardized test such as the PPST, ACT, or SAT. Students must submit a letter of application, résumé, letters of recommendations, and a copy of their Academic Progress Audit System (APAS) report.

There are alternatives to these established admission procedures to encourage the participation of individuals from underrepresented groups and other students as determined by the department. For information about UMD admission requirements, visit the UMD Admissions Web site.

**General Requirements**

In addition to the program-specific requirements listed below, all students are required to complete general University and college requirements including composition and liberal education courses. For more information, see the Liberal Education Program section of this catalog, and general University and college requirements included in the UMD Academic Program Audit System (APAS) report.

**Program Requirements**

Requirements for the B.A.A. in teaching social studies include:

- Liberal education requirements
- Advanced writing requirement: COMP 3140—Advanced Writing: Human Sciences or COMP 3160—Advanced Writing: Social Sciences (3 cr)
- Make satisfactory academic progress and demonstrate acceptable professional performance in field experiences

- Registration for student teaching in the senior year requires: 2.50 GPA in major courses; grades of C- or better in all courses in the teaching major(s) and minor(s); completion (graded) of all education block courses; completion of at least 85 percent of teaching major courses.
- Students must have personal liability insurance while they are working in field placement settings.
- Program completers must pass all tests required by the Minnesota Board of Teaching to be recommended for licensure.

**Lower Division (34 cr)**

- **POL 1011—American Government and Politics, LE CAT6 (3 cr)
- **PSY 1003—General Psychology, LE CAT6 (4 cr)
- **SOC 1101—Introduction to Sociology, LECAT CAT6 (4 cr)
- **GEOG 1414—Physical Geography, LE CAT4 (4 cr)
- **ANTH 1602—Prehistoric Cultures, LEIP CAT7 (4 cr)
- **ANHT 1604—Cultural Anthropology, LEIP CAT6 (4 cr)
- **ECON 1003—Economics and Society, LE CAT (3 cr)
- **ECON 1002—Principles of Economics: Macro, LE CAT (3 cr)
- **ECON 1023—Principles of Economics: Micro, LE CAT6 (3 cr)
- **GEOG 1202—World Regional Geography, LEIP CAT6 (3 cr)
- **GEOG 1304—Human Geography, LEIP CAT6 (3 cr)
- **HIST 1207—Dawn of Modern Europe, LE CAT7 (3 cr)
- **HIST 1208—In Europe in the Modern Age, LE CAT7 (3 cr)
- **HIST 1304—US History Part I: 1607-1877, LE CAT7 (3 cr)
- **HIST 1305—US History Part II: 1865–Present, LE CAT7 (3 cr)
- **POL 1050—International Relations, LEIP CAT6 (3 cr)
- **POL 1500—Introduction to Comparative Politics, LEIP CAT6 (3 cr)
- **POL 1610—Introduction to Political Theory, LE CAT7 (3 cr)

**Upper Division—Non-Western History**

Take no more than 1 course(s) totaling no more than 3 credit(s) from the following:

- **AMIN 2115—Ojibwe History and Culture (3 cr)
- **HIST 2155—Precolonial Africa, LE CAT7 (3 cr)
- **HIST 3516—Society and Culture in 20th-Century Africa (3 cr)
- **POLO 3570—Politics of Developing Nations (3 cr)
- **SPAN 2540—Latin Literatures and Cultures, LECAT CAT6 (3 cr)

**Education Courses (48 cr)**

- **EDUC 3412—The Computer in Education (1–4 cr)
- **EDUC 4631—Science, Technology, and Society (3 cr)
- **EDUC 4381—Teaching American Indian Students (2 cr)

EDUC 4500—Professional Issues in Teaching (1 cr)
EDSE 3204—General Instructional Methods (4 cr)
EDSE 3205—Apprenticeship: Middle School (2 cr)
EDSE 3206—Apprenticeship: Secondary School (2 cr)
EDSE 4100—Human Relations in Classrooms (2 cr)
EDSE 4120—Philosophy and Organization of the Middle School (2 cr)
EDSE 4214—Reading in the Middle and Secondary School, Grades 5–12 (2 cr)
EDSE 4244—Teaching Social Studies: Grades 5–12 (3 cr)
EDSE 4400—Professional Development Seminar for Secondary Education Majors (1 cr)
EDSE 4501—Educational Psychology (3 cr)
EDSE 4600—Student Teaching (6–12 cr)
HILTH 3202—Drug Education (2 cr)

**Diversity Immersion Experience Requirement**

A minimum of 40 hours at a formal or nonformal educational setting that has a high percent age (greater than 50 percent) of children, young adults, or families from diverse communities. This experience allows candidates to observe, interact, and reflect in an educational setting guided by focus questions and recommended readings.

Completion of this requirement is included in candidates’ professional portfolios.

Students must meet this requirement after they take EDUC 1101 and before they complete their education program.

**Program Sub-Plans**

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

**Anthropology Emphasis (18 cr)**

- **ANHT 4651—Development of Anthropological Theory (4 cr)
- **SOC 3155—Quantitative Research Methods and Analysis (4 cr)

**Economics Emphasis (18 cr)**

Students with an economics concentration must take ECON 1003 as their lower division ECON course. ECON 1022 or ECON 1023 cannot count as a lower division course and count toward the concentration.

- **EDSE 4120—Principles of Economics: Macro, LE CAT6 (3 cr)
- **EDSE 4123—Principles of Economics: Micro, LE CAT6 (3 cr)

**History Emphasis**

Take no more than 8 cr in any one subrequirement group.

**Subrequirement I: United States History**

- **HIST 3253—American Youth Culture (3 cr)
- **HIST 3255—United States Military History, LE CAT7 (3 cr)
- **HIST 3257—Women in American History, LECAT CAT7 (3 cr)
- **HIST 3316—US Social History, 1800-1919 (3 cr)
- **HIST 3317—American Expansion, 1800-1900 (3 cr)
- **HIST 3361—The American City (3 cr)
- **HIST 3365—American Culture and Globalization (3 cr)
- **HIST 3xxx
- **HIST 4xxx
- **HIST 5xxx

**Subrequirement II: European History**

Take no more than 8 credit(s) from the following:

- **HIST 3021—The Age of the Heroes: Homer and his World (3 cr)
- **HIST 3055—The Ancient Near East (3 cr)
- **HIST 3151—Ancient Egyptian Culture (3 cr)
- **HIST 3161—Egyptian Literature and Language (3 cr)
- **HIST 2244—The History of Science: Ancients to Newton (3 cr)
- **HIST 2245—Science and Society: 1500 to Present, LE CAT7 (3 cr)
- **HIST 2265—Russia in the 20th Century, LEIP CAT7 (3 cr)
- **HIST 3031—The Roman Republic (3 cr)
- **HIST 3041—The Roman Empire (3 cr)
- **HIST 3239—Europe in the Age of Renaissance and Reformation: 1348-1648 (3 cr)
- **HIST 3240—Early Modern England: 1485-1689 (3 cr)
- **HIST 3243—Europe in Crisis in the 20th Century (3 cr)
- **HIST 3244—History of Holocaust (3 cr)
- **HIST 3257—Modern France (3 cr)
- **HIST 3264—Imperial Russia (3 cr)
- **HIST 3333—From Homer to Alexander: Archai and Classical Greece (3 cr)
- **HIST 3335—From Alexander to Mohammed (3 cr)
- **HIST 3xxx
- **HIST 4xxx
- **HIST 5xxx

**Geography Emphasis (18 cr)**

- **GEOG 3401—Weather and Climate (3 cr)
- **GEOG 3702—Geography of the United States and Canada (3 cr)
- **GEOG 3612—Field Techniques (4 cr)
- **GEOG 3xxx
- **GEOG 4xxx
- **GEOG 5xxx
Subrequirement III: Asian, African, Non-U.S., Non-European
Take 0–8 credit(s) from the following:
HIST 1603—Modern Latin America (3 cr)
HIST 2515—Precolonial Africa, LECD CAT7 (3 cr)
HIST 2525—Islamic Societies, LEIP CAT7 (3 cr)
HIST 3515—Modern Africa (3 cr)
HIST 3516—Society and Culture in 20th-Century Africa (3 cr)
HIST 3725—Islamic History from Muhammad to the Ottomans (3 cr)
HIST 3726—Modern Middle East: 18th Century-Present (3 cr)
HIST 4xx
HIST 5xx

Political Science Emphasis
Take no more than 8 credits in any one category. Take no more than 18 credit(s) from the following:
Category I: United States Politics
Take 0–8 credit(s) from the following:
POL 3001—American Public Policy (3 cr)
POL 3015—State and Local Government (4 cr)
POL 3040—Women and Politics (3 cr)
POL 3080—Environment and Politics (3 cr)
POL 3150—American Constitutional Law I (4 cr)
POL 3151—American Constitutional Law II (4 cr)
POL 3170—Political Interest Groups and Individuals (3 cr)
Category II: International Politics
Take 0–8 credit(s) from the following:
POL 3400—Contemporary Issues in World Politics (4 cr)
Category III: Comparative Politics
Take 0–8 credit(s) from the following:
POL 3517—Western European Political Systems (4 cr)
POL 3570—Politics of Developing Nations (3 cr)
Category IV: Political Theory
Take 0–8 credit(s) from the following:
POL 3600—Political Concepts (4 cr)
POL 3610—Political Economy: An Introduction (4 cr)
POL 3651—Classical Political Thought (4 cr)
POL 3652—Modern Political Thought (4 cr)

Psychology Emphasis
Take 18 or more credit(s) from the following:
PSY 2021—Developmental Psychology, LECD CAT6 (4 cr)
PSY 2223—Gender in Society, LECD CAT4 (4 cr)
PSY 3021—Experimental Design and Methodology (4 cr)
PSY 3111—Theories of Personality (3 cr)
PSY 3121—Abnormal Psychology (4 cr)
PSY 3201—Social Psychology (3 cr)
PSY 3211—Group Dynamics (3 cr)
PSY 3215—Topics in Human Sexuality (3 cr)
PSY 3371—Child and Adolescent Psychology (3 cr)
PSY 3611—Learning and Behavior (4 cr)

Sociology Emphasis (18 cr)
SOC 2111—Sociological Theory (4 cr)
SOC 3155—Quantitative Research Methods and Analysis (4 cr)
SOC 3701—Social Psychology (3 cr)
SOC 3901—Social Change and Social Policy (3 cr)
SOC 3821—Sociology of Community (3 cr)
or SOC 3831—Organizations and Society (3 cr)
Take 0–1 credit(s) from the following:
SOC 3xx
SOC 4xx

Women’s Studies Emphasis (18 cr)
WS 1090—Introduction to Women’s Studies, LECD CAT7 (3 cr)
WS 2101—Women, Race, and Class, LECD CAT8 (3 cr)
Electives
Take no more than 12 credit(s) from the following:
Women’s Studies
Take 6–12 credit(s) from the following:
WS 3000—Transnational Perspectives on Feminism (3 cr)
WS 3001—Third World Women (3 cr)
WS 3002—Latin American Women: Culture and Politics (3 cr)
WS 3100—Feminist Theory (4 cr)
WS 3150—Women-Identified Culture (3 cr)
WS 3300—Women, Religion, and Spirituality (3 cr)
WS 3350—Women and the Law (3 cr)
WS 3600—Ecofeminist Theories and Practices (3 cr)
Other Electives
Take 0–6 credit(s) from the following:
ANTH 3628—Women in Cross-Cultural Perspective (3 cr)
GEOG 4394—Gender, Space and Culture (4 cr)
HIST 2357—Women in American History, LECD CAT7 (3 cr)
POL 3040—Women and Politics (3 cr)
PSY 2223—Gender in Society, LECD CAT8 (4 cr)
SOC 4232—Women and Justice (3 cr)
SOC 4947—Sociology of Gender Identities and Systems (3 cr)

Teaching Spanish B.A.A.

Education, Foreign Languages and Literatures
Required credits to graduate with this degree: 120
Required credits within the major: 66 to 86
The B.A. in teaching Spanish is offered through the Department of Education in conjunction with the Department of Foreign Languages and Literatures. This major prepares students to teach Spanish from kindergarten through grade 12. Students pursuing both the B.A. and B.A.A. degrees in Spanish must satisfactorily complete 12 non-overlapping upper division credits of Spanish electives beyond the requirements for both degrees.

Admission Requirements
Students must complete 45 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.

Students entering the secondary and K–12 licensure programs are bound by the policies in effect at the time of application to the licensure program. Admission is based on criteria established by the Department of Education that are consistent with Minnesota policies as well as standards established by the National Council for Accreditation in Teacher Education. A student must have:
1. completed EDUC 1101;
2. a GPA of at least 2.50 overall and in major courses completed at the time of application;
3. taken the Pre-Professional Skills test (PPST); and
4. passing scores on a nationally recognized standardized test such as the PPST, ACT, or SAT.
Students must submit a letter of application, resume, letters of recommendations, and a copy of their Academic Progress Audit System (APAS) report. There are alternatives to these established admission procedures to encourage the participation of individuals from underrepresented groups and other students as determined by the department. For information about UMD admission requirements, visit the UMD Office of Admissions Web site.

Lower Division (3–23 cr)
Students may be exempted from part or all of the core requirements if they have previously completed Spanish language coursework. The Dept. of Foreign Languages and Literatures determines exemptions based on acceptance of transfer credits and work done in secondary school. Students with 3 years of high school Spanish enter the sequence at the intermediate Spanish level and are exempted from SPAN 1101-1102. Exemption does not necessarily carry credits toward the 120 credits needed for graduation. EDUC 1101—Education in Modern Society, LE CAT 7 (3 cr)
SPAN 1101—Beginning Spanish I, LE CAT 3 (4 cr)
SPAN 1102—Beginning Spanish II, LE CAT 3 (4 cr)
SPAN 1201—Intermediate Spanish I, LE CAT 3 (4 cr)
SPAN 1202—Intermediate Spanish II, LEIP CAT 3 (4 cr)
SPAN 2301—Advanced Spanish, LEIP CAT 3 (4 cr)

General Requirements
In addition to the program-specific requirements listed below, all students are required to complete general University and college requirements including composition and liberal education courses. For more information, see the Liberal Education Program section of this catalog, and general degree requirements listed in each college section. Recommended freshman writing course(s) for this program: COMP 1120—College Writing.

Program Requirements
• Requirements for the B.A.A. in Spanish include:
  • Liberal education requirements: recommended—ENGL 1907 (Cat 9) and LING 1811 (Cat 2)
  • Advanced writing requirement: COMP 3140—Advanced Writing: Human Services (3 cr)
  • Spanish majors and minors are exempted from the campus-wide requirement for international perspectives courses; cultural diversity requirement must be met
  • Study abroad is essential for success in learning Spanish
  • Make satisfactory academic progress and demonstrate acceptable professional performance in field experiences.
  • Registration for student teaching in the senior year requires: 3.00 GPA in major courses; grades of C- or better in all courses in the teaching major(s) and minor(s); completion (graded) of all education block courses, including LANG 4044; completion of at least 85 percent of teaching major courses; having passed the oral proficiency exam and permission from faculty in the foreign languages program
  • Students must have personal liability insurance while they are working in field placement settings
  • Program completers must pass all tests required by the Minnesota Board of Teaching to be recommended for licensure

Diversity Immersion Experience Requirement
Candidates must spend a minimum of 40 hours at a formal or nonformal educational setting that has a high percentage (greater than 50 percent) of children, young adults, or families from diverse communities. The format of this experience allows candidates to observe, interact, and reflect in an educational setting guided by focus questions and recommended readings. Evidence of completion of this requirement is included in candidates’ professional portfolios.
Students must meet this requirement after they take EDUC 1101* and before they complete their education program. Registration for credit is not required for this experience; however, candidates who wish to earn credit may register for EDUC 4991.

**Upper Division (63 cr)**

Some of the upper division Spanish courses may be transferred from another college or earned abroad, but at least two courses must be taken at UMD. By second semester, sophomore year, students start upper division major courses and plan for application to the secondary teacher education program (STEP).

EDUC 3412 (register for 4 cr)
EDSE 4600 (register for 12 cr)
EDUC 3412—The Computer in Education (1–4 cr)
EDUC 4381—Teaching American Indian Students (2 cr)
EDUC 4500—Professional Issues in Teaching (1 cr)
EDSE 3204—General Instructional Methods (4 cr)
EDSE 3205—Apprenticeship: Middle School (2 cr)
EDSE 3206—Apprenticeship: Secondary School (2 cr)
EDSE 4100—Human Relations in Classrooms (2 cr)
EDSE 4214—Reading in the Middle and Secondary School, Grades 5–12 (2 cr)
EDSE 4400—Professional Development Seminar for Secondary Education Majors (1 cr)
EDSE 4600—Student Teaching (6–12 cr)
EDSE 4120—Philosophy and Organization of the Middle School (2 cr)
ELED 3113—Learning Environments and Diverse Learning Communities (3 cr)
HLTH 3202—Drug Education (2 cr)
LANG 4044—Language Teaching Methods (4 cr)
SPAN 3xxx–5xxx: Including one culture course taught in Spanish (20 cr)

**Exit Standards**

Students must successfully complete an oral proficiency exam administered by the Department of Foreign Languages and Literatures before student teaching.

**Special Education Licensure Program**

- Early childhood/special education (EC/SE)
- Emotional behavioral disorders (EBD)
- Learning disabilities (LD)

Students may earn their EC/SE license as undergraduate students majoring in early childhood studies or as postbaccalaureate students. Although undergraduates who are majoring in a teaching field may minor in special education and make significant progress toward, or even complete special education licensure requirements before graduation.

Undergraduates interested in obtaining any special education license at UMD should seek advising from the special education faculty as early in their programs as is possible.

For information on developmental disabilities (DD), physical and health impairments (PHI), or visual impairments (VI), please contact the UMD special education coordinator, 120 Montague Hall.

**Admission to Candidacy Requirements**

Admission to UMD as a special education postbaccalaureate student requires submission of a postbaccalaureate contract application it is available at www.d.umn.edu/cehsp/licensure/postbac.htm. Students must also apply for admission to the special education program; application instructions can be found on the same Web site.

Admission is limited and based on the following criteria:

- A minimum overall GPA of 2.70 (Applicants to EC/SE should also consult requirements for early childhood studies)
- Three letters of reference that attest to the applicant’s ability to work with individuals with disabilities
- Interviews with program faculty (optional)
- Quality of written response to a question included in the application packet

Application packets are sent to the student with the approved postbaccalaureate contract. Completed applications and all supporting documents are due April 1 for fall semester admission.

Check with the program coordinator, 120 Montague Hall, for availability of admission openings at other times. Applicants who do not meet minimum standards may be admitted for a probationary semester and have their application reconsidered the following semester.

**Maintenance Standards**

Students who do not maintain satisfactory levels of progress (a GPA of 2.70 in all program-required courses and acceptable performance in their field experiences and dispositions) will have their candidacy rescinded. Courses with a grade lower than B- are not counted toward meeting licensure requirements.

**Exit Standards**

To be recommended for licensure, students must have maintained a GPA of 2.70 in all program-required courses, acceptable performance in their field experiences and dispositions, demonstrated satisfactory outcomes required by the program, and satisfactorily completed their student teaching practicum. Students must pass all tests required by the Minnesota Board of Teaching.

**Personal Liability Insurance**

Students must obtain personal liability insurance while working in public school classrooms. This can be obtained most economically by student membership in Education Minnesota. Applications are available in the Office of Field Experiences, 120 Montague Hall, 218-726-7483.

**Early Childhood/Special Education Licensure Requirements**

Students interested in the ECSE licensure should refer to the Unified Early Childhood Studies section for requirements.

**Emotional Behavioral Disorders (EBD) or Learning Disabilities (LD) Licensure Requirements**

**Prerequisite Courses**

Students without a professional education background may need to complete additional courses listed below. This is determined at the time of application and will be reflected in the post baccalaureate contract evaluation.

PSY 3371—Child and Adolescent Psychology (3 cr)
EDUC 1101—Education in Modern Society (3 cr)
PSY 3371—Developmental Psychology (3 cr)

**Special Education Core (42 credits)**

SPED 4381/5381—Behavior Management Principles and Practices (4 cr)
SPED 4382/5382—Assessment for Children and Youth With Disabilities (4 cr)
SPED 4385/5385—Individual Education Planning (3 cr)
SPED 4433/5433—Foundations in Special Education (4 cr)
SPED 4434/5434—Assistive Computer Technology for Teaching (2 cr)
SPED 4445/5445—Parent and Professional Communication and Collaboration (4 cr)
SPED 4452/5452—Academic Interventions for Students With Disabilities (4 cr)
SPED 4459/5459—Transitional Planning for Adolescents With Disabilities (4 cr)
SPED 4466/5469—Teaching Reading, Writing and Math (3 cr)
SPED 4555—Assessment and Instruction of Culturally and Linguistically Diverse Exceptional Learners (3 cr)
SPED 4600/5600—Student Teaching (12 cr)

**Emotional Behavioral Disorders Specialization Course**

SPED 4382/5382—Advanced Theory and Practice in Emotional/Behavioral Disorders (4 cr)

Learning Disabilities Specialization Course

SPED 5331—Learning Disabilities Characteristics and Interventions (4 cr)

**Special Education Minor**

**Education**

Required credits in this minor: 21

Courses for the special education minor apply toward but do not complete K–12 special education licensure requirements. Remaining courses can be taken on a postbaccalaureate contract.

**Minor Requirements**

**Special Education Minor Courses**

SPED 4204—Assessment for Children and Youth with Disabilities (4 cr)
SPED 4381—Behavior Management Principles and Practices (4 cr)
SPED 4433—Foundations in Special Education (4 cr)
SPED 4434—Assistive and Computer Technology for Teaching (2 cr)
SPED 4435—Parent and Professional Communication and Collaboration (4 cr)
SPED 4555—Assessment and Instruction of Culturally and Linguistically Diverse Exceptional Learners (3 cr)

**Unified Early Childhood Studies B.A.Sc.**

**Education**

Required credits to graduate with this degree: 130 to 135

Required credits within the major: 106 to 107

This program requires summer terms.

The unified early childhood studies program and licenses include interdisciplinary curricula that prepare students for work in a variety of settings with children of diverse ability levels, from birth through age eight.

Graduates find employment in public schools, community and private preschool programs, early primary grades in elementary schools, programs for children ages birth through six with identified disabilities or delays, home- and center-based child care, Head Start programs, and hospital-based settings.

All students complete a common core of courses in child development, parent-child relations, early childhood curriculum and programming, early childhood special education, community resources, and educational leadership and program administration.
The unified early childhood studies major leads to Minnesota licensure in early childhood education (birth through grade three) and early childhood special education. International student teaching placements are available.

Admission Requirements
Students must complete 54 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:
- 2.70 for students already admitted to the degree-granting college.
- 2.70 for students transferring from another University of Minnesota college.
- 2.70 for students transferring from outside the University.

Students are admitted to UMD as pre-early childhood majors and must apply for candidacy after completion of required lower division coursework. The number of students admitted to candidacy in the program each year is based on availability of suitable programs for practicum experience. Candidates are selected on the basis of an overall GPA of at least 2.70, three references, a personal written statement, and completion of the Pre-Professional Skills Test (PPST) and documented experience working with young children. An entrance interview may be requested by the faculty selection committee. Students interested in the major are advised to apply during their sophomore year. A student transferring from another institution must apply for admission and may be admitted with advanced standing. Decisions regarding transfer of credits are made on an individual basis.

For information about UMD admission requirements, visit the UMD Office of Admissions Web site.

Lower Division (21-22 cr)
- ECH 2010—Foundation Issues in Early Childhood Studies (3 cr)
- ECH 2015—Literature for Young Children (3 cr)
- ECH 2025—Cognitive Development: Theory to Practice (3 cr)
- EDUC 1100—Human Diversity, LECD CAT8 (3 cr)
- EDUC 1101—Education in Modern Society, LE CAT7 (3 cr)
- EDUC 1000—Human Development (3 cr)
- or PSY 201—Developmental Psychology, LECD CAT6 (4 cr)
- SOC 1201—Sociology of the Family, LECD CAT8 (3 cr)
- or EDUC 5340—Interacting With Diverse Families (3 cr)

General Requirements
Recommended freshman writing course(s) for this program: COMP 1120—College Writing.

Program Requirements
Requirements for the B.A.Sc. in unified early childhood include:
- Liberal education requirements
- Advanced writing requirement: COMP 3140—Advanced Writing: Human Services or COMP 3150—Advanced Writing: Science (3 cr)
- Exit Standards: Recommendations for licensure are based on successful completion of all program-related courses; demonstration of satisfactory performance outcomes required by the program; acceptable performance in field experiences, including student teaching; and successful completion of all tests required by the Board of Teaching.
- Personal Liability Insurance: Students must obtain personal liability insurance to protect themselves while working in programs, and can usually obtain this most economically with a student membership in Education Minnesota. Applications are available in the Office of Field Experiences, 120 Montague Hall.

Upper Division (85 cr)
- Student Teaching: Application for student teaching must be made by the fourth Friday of the semester before student teaching. Applications are available from the Department of Education Web site. All applications must be cleared before filing the application. Students must have a 2.70 GPA and grades of C- or better in all required courses in the major to be eligible for student teaching.
- CSD 3130—Language Development and Disorders (4 cr)
- ECH 3021—Teaching Mathematics: Birth-Age Eight (4 cr)
- ECH 3022—Literacy for Young Children: Teaching Reading, Writing, Speaking, and Listening (4 cr)
- ECH 3030—Inquiry, Social Studies, and Science Learning: Birth-Age Eight (5 cr)
- ECH 3050—Observing and Guiding Behavior: Birth-Age Eight (4 cr)
- ECH 3055—Creative Expressions in Early Childhood: Birth-Age Eight (3 cr)
- ECH 3104—Family Partnerships (1 cr)
- ECH 4009—Leadership in Early Childhood Studies (3 cr)
- ECH 4251—Parenting (3 cr)
- SPED 4430—Advanced Writing: Science (3 cr)
- SPED 4433—Foundations in Special Education (4 cr)
- SPED 4435—Parent and Professional Communication and Collaboration (4 cr)
- SPED 4600—Student Teaching (3–12 cr)
- SPED 4610—Professional Issues (1 cr)

Diversity Immersion Experience
Candidates must spend a minimum of 40 hours at a formal or nonformal educational setting that has a high percentage (greater than 50 percent) of children, young adults, or families from diverse communities. The format of this experience allows candidates to observe, interact, and reflect in an educational setting guided by focus questions and recommended readings. Evidence of completion of this requirement will be included in a candidate’s professional portfolio.

Students must meet this requirement after they take EDUC 1101 and before they complete their education program. Registration for credit is not required, however, candidates who wish to earn credit may register for EDUC 4994.