



This is the College of Education and Human Service Professions section of the 2007-2009 Duluth Catalog for the University of Minnesota

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The College of Education and Human Service Professions is dedicated to preparing highly qualified professionals in education and human service fields.

College of Education and Human Service Professions (CEHSP)

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

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

Associate Dean: Thomas Peacock
125 Bohannon Hall, 218-726-7665

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 on submission of evidence that the student has completed prerequisite courses, earned a satisfactory GPA, taken appropriate tests, made plans for the rest 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. Extenuating

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 can graduate with college honors. In CEHSP, the top 3 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 science 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
 Ojibwe 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 also 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.

Graduate School

Doctor of Education (Ed.D.)

The doctor of education with a major in teaching and learning is an applied degree for the professional development of P–12, community college and university faculty and administrators; professionals in other human service professions such as coaching, athletic training, criminal justice, social work, extension, community agency administration, and university student personnel; as well as business professionals involved in education and training activities. The mission of the program is to produce scholarly practitioners.

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

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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 Damme,

Daniel Glisczynski, Trudie Hughes, Joan Kwako, Molly Minkkinen, Changaa Mwet, Jacqueline Onchwari, Jean Stevenson, Julie Williams, Mary Wright, Ji Yoon Yoon; *Instructors:* Elizabeth Albert-Peacock, Glenn Corbett, Jane Dietrich, Mike Gabler, Lorraine Mitchell, Geraldine Nierengarten, Kim Riordan, Pamela Roth, Elizabeth Ruark, James Sersha, 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, Georgia L. Keeney, Morris Levy, Duane Millslagle, Mark E. Nierengarten (*department head*), Ladona Tornabene; *Assistant Professors:* Jane Carlson, Donald Collins, Julie Ernst, Char Harkins, Amy Versnik-Nowak; *Instructors:* Thomas Beery, Elizabeth Fleissner, Kenneth Harkins, James Knapp, Patricia Wendinger

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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 Durgunoglu (*department head*), Randall A. Gordon, Bud A. McClure, Kristelle Miller, Uwe H. Stuecher; *Associate Professors:* Helen M. Doane, 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

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The Department of Psychology offers the bachelor of applied science (B.A.Sc.) 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 education for practice 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 Licensing, 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—Ojibwe (K–8 specialty)
Elementary education (K–6) plus world language and cultures—Spanish (K–8 specialty)
Health education (5–12)
Instrumental and classroom music (K–12)
Mathematics (5–8, 9–12)
Physical education (K–12)
Physics (9–12)
Science (5–8)/chemistry (9–12)
Science (5–8)/earth science (9–12)
Science (5–8)/life science (9–12)
Science (5–8)/physics (9–12)
Social studies (5–8, 9–12)
Special education early childhood (birth–age 6)

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)

Global Student Teaching

CEHSP offers prospective teachers the opportunity to complete student teaching requirements in several regions of the world through a partnership with the University of Minnesota, Morris Global Student Teaching (GST) program. Interested students must submit the GST application along with the UMD student teaching application. Details are available on the Department of Education Web site at www.d.umn.edu/educ.

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 signatures 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)

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, is available in the HPER Department Office, 110 Sport and Health Center.

Transfer course equivalencies for required ESAT courses are determined by the program director. Transfer 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 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 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

Requirements for the B.A.Sc. in athletic training include:

- Liberal education requirements
- Advanced writing requirement: COMP 3140—Advanced Writing: Human Services or COMP 3150—Advanced Writing: Science (3 cr)
- Athletic 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 3600—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 1151—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 (4 cr)
- ESAT 3632—Athletic Injury Evaluation II (3 cr)
- ESAT 3642—Therapeutic Exercise (3 cr)
- ESAT 3697—Clinical Experiences in Athletic Training III (2 cr)
- ESAT 3698—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, audiology, 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. Undergrads 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, LECD CAT8 (3 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 5400—Rehabilitative Procedures for the Hard of Hearing (3 cr)

Courses From Other Programs

- PSY 1003—General Psychology, LE CAT6 (4 cr)
- PSY 2021—Developmental Psychology, LECD CAT6 (4 cr)
- One social science course from approved department 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, LECD CAT3 (3 cr)
- PHYS 1001—Introduction to Physics I, LE CAT4 (5 cr)
- or PHYS 1011—Ideas in Physics, LE CAT5 (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, LECD CAT3 (3 cr)
- CSD 2002—American Sign Language Studies II, LECD 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 CAT8 (4 cr)
- PSY 3524—Basic Helping Skills (4 cr)
- PSY 3661—Psychology of Language (3 cr)
- SOC 1201—Sociology of the Family, LECD CAT8 (3 cr)
- SPED 1357—Individuals With Disabilities in Society, LECD CAT8 (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 department also recommends a public school practicum 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

to licensure as a special educator, an elementary principal, or an elementary school counselor; or for non-school-related occupations requiring skill in working with children.

An effective elementary school teacher should possess a broad background in liberal and professional education. This professional program focuses on the structure of the various disciplines, the child as learner, the learning environment, diverse learners, teaching strategies in a practicum setting, and a semester of student teaching experience. As part of the program, students are required to complete an approved specialty area.

Elementary education licensure requirements are established by the state of Minnesota and guided by national standards. Those requirements are changed periodically. To ensure each student has a personalized and current plan of courses to complete, freshman elementary education majors and transfer students should contact their elementary education advisers early in their first semester at UMD.

Admission Requirements

Students must complete 35 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.

Admission into the elementary education program is selective. Students apply for admission after completing lower division requirements. Minimum admission criteria include: completion of 60 credits; overall GPA of 2.70; PPST scores; and a minimum of C- or better in all major courses. Students must select a teaching specialty area from: 5–8 communication arts/literature; 5–8 mathematics; 5–8 science; 5–8 social studies; or the K–8 Ojibwe minor (CLA).

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

Lower Division (35 cr)

Depending on math placement test score, students may be required to complete prerequisite courses in mathematics. One MATH or STAT course (3–5 cr) in addition to MATH 1141. MATH 1005 does not fill this requirement. ART 1002—Introduction to Art, LE CAT10 (3 cr) EDUC 1000—Human Development (3 cr) EDUC 1100—Human Diversity, LECD CAT8 (3 cr)

EDUC 1101—Education in Modern Society, LE CAT7 (3 cr)
ELED 1010—Introduction to Elementary Education (3 cr)
MATH 1141—Mathematics for Elementary Education (4 cr)
MU 1601—Music Fundamentals (1 cr)

Literature

Take exactly 1 course(s) from the following:

ENGL 1001—Great American Authors, LE CAT9 (3 cr)
ENGL 1101—Literature Appreciation, LE CAT9 (3 cr)
ENGL 1575—20th-Century Literature, LE CAT9 (4 cr)
ENGL 1582—Introduction to World Literatures, LEIP CAT9 (3 cr)
ENGL 1585—Australian and New Zealand Literature and Culture, LEIP CAT9 (4 cr)
ENGL 1907—Introduction to Literature, LE CAT9 (3 cr)
AMIN 1106—American Indian Prose, Poetry, and Oratory, LE CAT9 (3 cr)

COMM 1xxx–3xxx

Recommended course—COMM 1112

Take exactly 1 course(s) from the following:

COMM 1xxx
COMM 2xxx
COMM 3xxx

GEOG 1xxx–3xxx

Take 3–4 credit(s) from the following:

GEOG 1xxx
GEOG 2xxx
GEOG 3xxx

HIST 1xxx–3xxx

Recommended course—HIST 1304 or 1305

Take exactly 3 credit(s) from the following:

HIST 1xxx
HIST 2xxx
HIST 3xxx

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 elementary and middle school education include:

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

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)
EDUC 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)
PEP 3126—Elementary School Physical Education (2 cr)

Block I (17 cr)

Take all of the following in the same term:

ELED 3113—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)

ELED 3355—Critical Thinking: Elementary Mathematics (4 cr)
ELED 4400—Professional Development Seminar for Elementary Education Majors (1 cr)
SPED 3310—Introduction to Special Education for Elementary Education (1 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 4500—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 connection 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 1535—King Arthur in History, Literature, and Art, LE CAT9 (4 cr)

Teaching Mathematics

Teaching mathematics specialization (21–23 cr) is for licensure taken in connection 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)

MATH 1296—Calculus I, LE CAT2 (5 cr)

MATH 1297—Calculus II (5 cr)

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

STAT 2411—Statistical Methods, LE CAT2 (3 cr)

STAT 3611—Introduction to Probability and Statistics (4 cr)

Teaching Science

Teaching science specialization (23–27 cr) is for licensure taken in connection with the elementary and middle school major.

Specialization Courses

Complete at least one of the following course pairs:

BIOL 1011—General Biology I, LE CAT4 (5 cr)

BIOL 1012—General Biology II (5 cr)

or 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)

or CHEM 1151—General Chemistry I, LE CAT4 (5 cr)

CHEM 1152—General Chemistry II (5 cr)

or for this course pair GEOL 2110 must include lab

GEOL 1110—Geology and Earth Systems, LE CAT4 (4 cr)

GEOL 2110—Earth History (3 cr)

or GEOL 1110—Geology and Earth Systems, LE CAT4 (4 cr)

GEOL 2120—The Earth's Dynamic Interior (3 cr)

or PHYS 1001—Introduction to Physics I, LE CAT4 (5 cr)

PHYS 1002—Introduction to Physics II (5 cr)

Additional Science Courses

BIOL or CHEM or GEOL or PHYS not needed if corresponding sequence above was taken.

Take 5–6 course(s) from the following:

AST 1040—Introductory Astronomy, LE CAT5 (3 cr)

BIOL 1001—Biology and Society, LE CAT4 (4 cr)

CHEM 1102—Aspects of Chemistry, LE CAT4 (3–4 cr)

EDUC 4234—Science, Technology, and Society (3 cr)

GEOL 1110—Geology and Earth Systems, LE CAT4 (4 cr)

PHYS 1011—Ideas in Physics, LE CAT5 (3 cr)

Teaching Social Studies

Teaching social studies specialization (25 cr) is for licensure taken in connection with the elementary and middle school major.

Specialization Courses

ECON 1003—Economics and Society, LE CAT8 (3 cr)

EDUC 4234—Science, Technology, and Society (3 cr)

GEOG 1414—Physical Geography, LE CAT4 (4 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 1011—American Government and Politics, LE CAT6 (3 cr)

SOC 1101—Introduction to Sociology, LECD CAT6 (4 cr)

GEOG 1202—World Regional Geography, LEIP CAT8 (3 cr)

or GEOG 1304—Human Geography, LECD CAT6 (3 cr)

Ojibwe Elementary/Middle School Education B.A.Sc.

Education

Required credits to graduate with this degree: 135 to 138

Required credits within the major: 120

This program is 9 terms (4½ years) long.

The Ojibwe Elementary/Middle School Education B.A.Sc. (*Gekinoo'imaagejig*) program presents liberal arts and professional teacher preparation through an Anishinaabe lens, including development, learning and motivation, curriculum, instruction, assessment, and professionalism. The program integrates the American Indian Learner Outcomes into the elementary education licensure requirements established by the state of Minnesota.

Students in the program follow the core values of *mino-bimaadiziwin*, the Good Path:

Honor the Creator, the Great Mystery

Honor Elders

Honor the plants and animals

Honor women

Keep our promises and uphold our pledges

Show kindness to everyone, even to those with whom we disagree

Be peaceful in body and spirit

Be courageous

Be moderate in our dreams, thoughts, words, and deeds

Students who successfully complete the program are eligible to apply for licensure to teach grades K–8 in any Minnesota elementary school. The major also provides a specialty in Ojibwe language in immersion schools or other schools, grades K–8. Students complete language courses throughout the program and participate in language immersion camps to achieve proficiency in Ojibwe language and to gain skills in teaching Ojibwe.

Admission Requirements

Students must complete 51 credits before admission to the program. Freshmen and transfer students are usually admitted to pre-major status before admission to this major.

After completing lower division requirements and meeting all admission criteria described in the elementary education admission packet, students must apply for admission to the *Gekinoo'imaagejig* program. Students may obtain a copy of the admission packet from the

program adviser. After students are admitted to *Gekinoo'imaagejig*, they must maintain expected standards to remain in the program.

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

Required Courses Prior to Admission to Program

Lower Division

ART 1002—Introduction to Art, LE CAT10 (3 cr)

EDUC 1100—Human Diversity, LECD CAT8 (3 cr)

MATH 1005—College Algebra (5 cr)

MU 1601—Music Fundamentals (1 cr)

AMIN 1106—American Indian Prose, Poetry, and Oratory, LE CAT9 (3 cr)

COMM 1112—Public Speaking (3 cr) (recommended)

GEOG 1xxx course (3 cr)

MATH or STAT course in category 2 of Liberal Education Program (3 cr)

HIST 1xxx course in U.S. history or world history (3 cr)

Ojibwe Language

AMIN 1103—Beginning Ojibwe I, LECD CAT3 (3 cr)

AMIN 1104—Beginning Ojibwe II, LECD CAT3 (3 cr)

AMIN 2203—Intermediate Ojibwe I, LECD CAT3 (3 cr)

AMIN 2204—Intermediate Ojibwe II, LECD 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 Disability Services and Resources.

Students' progress is monitored, including academic progress, (grades of C or better in all required courses), professional dispositions as indicated through *mino-bimaadiziwin*, and teaching skills demonstrated during field experiences.

If faculty, staff, or cooperating teachers in the field raise concerns related to any student's academic performance or professional behavior, a professional development plan will be developed and implemented.

To be recommended for licensure, students must demonstrate satisfactory progress expected by the program, and have a grade of a C or better in all required courses, acceptable ratings from both classroom and University supervisors for all field experiences, including student teaching, and completed a professional portfolio documenting competence in Minnesota and national Standards of Effective Practice and the Minnesota American Indian Learner Outcomes. Students must pass all tests required by the Minnesota Board of Teaching to be eligible for licensure.

Upper Division

OJED 3100—Advanced Ojibwe Grammar and Narrative (4 cr)

OJED 3101—Circle of Life (4 cr)

OJED 3102—Historical and Contemporary Issues in American Indian Education (3 cr)

OJED 3103—Teaching American Indian Studies (3 cr)

OJED 3104—College Skills for Pre-service Teachers (2 cr)

OJED 3200—Ojibwe Language for Teachers (4 cr)

OJED 3201—Holistic Instruction and Assessment (3 cr)

MATH 1141—Mathematics for Elementary Education (4 cr)

OJED 3202—Anishinaabe Art, Music and Dance (3 cr)

OJED 3203—Health, Wellness and Movement (3 cr)

Block I

OJED 4100—Conversational Ojibwe for the Classroom and Community (4 cr)

OJED 4101—Language, Literacy and Literature (4 cr)

OJED 4102—Oral Tradition and Language Acquisition (4 cr)

OJED 4103—Elementary Mathematics Methods (4 cr)

OJED 4104—Professional Development (2 cr)

Block II

OJED 4200—Ojibwe Language Methods (4 cr)

OJED 4201—Understanding Our Environment and Mother Earth (4 cr)

OJED 4202—Minnesota Based Treaties, Sovereignty, and Tribal Government (4 cr)

OJED 4203—The Inclusive Classroom (4 cr)

Block III

Student teaching: Students must apply for student teaching the semester prior to student teaching. Applications are available online at www.d.umn.edu/~indianed. Students must have completed all professional courses and have earned a minimum GPA of 2.70 to be eligible for student

teaching. All incompletes must be cleared, prior to filing the application. Student teaching assignments are made by the *Gekinoo'imaagejig* program.

OJED 4600—Student Teaching (12 cr)

OJED 4610—Professional Issues (2 cr)

Exercise Science B.A.Sc.

Health, Physical Education, and Recreation

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 8 courses 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 1151 for exercise and sport science concentration.

CHEM 1113 for health and fitness concentration.

BIOL 1011—General Biology I, LE CAT4 (5 cr)

COMP 1120—College Writing, LE CAT1 (3 cr)

HLTH 1470—Human Nutrition, LE CAT5 (3 cr)

HLTH 2030—Applied Human Anatomy (4 cr)

HLTH 2040—Principles of Human Physiology (4 cr)

PHYS 1001—Introduction to Physics I, LE CAT4 (5 cr)

PSY 1003—General Psychology, LE CAT6 (4 cr)

CHEM 1151—General Chemistry I, LE CAT4 (5 cr)

or **CHEM 1113**—Introduction to General, Organic, and Biological Chemistry I, LE CAT4 (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 make satisfactory academic progress (as outlined above) and demonstrate acceptable professional performance in their classroom, laboratory, research, and internship experiences.

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 CAT2 (5 cr)

PHYS 1002—Introduction to Physics II (5 cr)

Electives

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

BIOL 2101—Cell Biology (3 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 3324—Biochemistry Laboratory (1 cr)

ESAT 3210—Exercise Adherence (3 cr)

ESAT 3430—Principles of Strength and Conditioning Programs (4 cr)

PSY 2021—Developmental Psychology, LECD CAT6 (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 3210—Exercise Adherence (3 cr)

ESAT 3430—Principles of Strength and Conditioning Programs (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 minor for 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 Management (3 cr)

PSY 3540—Psychology of Food Abuse (3 cr)

PSY 3613—Behavior Modification (3 cr)

Must take both to receive credit.

PSY 2021—Developmental Psychology, LECD CAT6 (4 cr)

PSY 3381—Adult Development and Aging (3 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 the 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, résumé, letters of recommendations, and a copy of 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 Solon 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

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 course 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 transfer to the major can be approved.

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

Lower Division

HLTH 1100—Health and Wellness Strategies for Life, LE CAT8 (3 cr)

HLTH 1104—Health Science Terminology (1–3 cr)

HLTH 1470—Human Nutrition, LE CAT5 (3 cr)

HLTH 1700—First Responder (3 cr)

HLTH 2030—Applied Human Anatomy (4 cr)

HLTH 2040—Principles of Human Physiology (4 cr)

Required Courses From Other Programs

EDUC 3412 (register for 4 cr)

BIOL 1001—Biology and Society, LE CAT4 (4 cr)

CHEM 1102—Aspects of Chemistry, LE CAT4 (3–4 cr)

COMM 1112—Public Speaking, LE CAT3 (3 cr)

EDUC 1100—Human Diversity, LECD CAT8 (3 cr)

EDUC 3412—The Computer in Education (1–4 cr)

PSY 1003—General Psychology, LE CAT6 (4 cr)

PSY 2021—Developmental Psychology, LECD CAT6 (4 cr)

SOC 1101—Introduction to Sociology, LECD 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 3101—Community Health (3 cr)

HLTH 3115—Consumer Health Education (3 cr)

HLTH 3117—Principles of Sex Education (3 cr)

HLTH 3202—Drug Education (2 cr)

HLTH 3301—Foundations of Health Education (3 cr)

HPER 3000—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 health 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 undergraduate students 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 4600 (register for 12 cr)

EDUC 1101—Education in Modern Society, LE CAT7 (3 cr)

EDSE 3204—General Instructional Methods (4 cr)

EDSE 3205—Apprenticeship: Middle School (2 cr)

EDSE 3206—Apprenticeship: Secondary School (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 4501—Educational Psychology (3 cr)

EDSE 4600—Student Teaching (6–12 cr)

EDSE 4120—Philosophy and Organization of the Middle School (2 cr)

EDUC 4381—Teaching American Indian Students (2 cr)

EDUC 4500—Professional Issues in Teaching (1 cr)

HLTH 3302—School Health Education Methods and Materials (3 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.

- 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 Web site.

Minor Requirements

Lower Division (25 cr)

HLTH 1100—Health and Wellness Strategies for Life, LE CAT8 (3 cr)

HLTH 1470—Human Nutrition, LE CAT5 (3 cr)

HLTH 1700—First Responder (3 cr)

HLTH 2030—Applied Human Anatomy (4 cr)

HLTH 2040—Principles of Human Physiology (4 cr)

PSY 1003—General Psychology, LE CAT6 (4 cr)

PSY 2021—Developmental Psychology, LECD CAT6 (4 cr)

Upper Division (18 cr)

HLTH 3101—Community Health (3 cr)

HLTH 3115—Consumer Health Education (3 cr)

HLTH 3117—Principles of Sex Education (3 cr)

HLTH 3301—Foundations of Health Education (3 cr)

HLTH 3303—Health Education and Promotion Program (3 cr)

HPER 3200—Research and Evaluation in Health Science (3 cr)

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 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.

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 Web site.

Lower Division (48–50 cr)

CHEM 1102—Aspects of Chemistry, LE CAT4 (3–4 cr)

COMP 1120—College Writing, LE CAT1 (3 cr)

EDUC 1101—Education in Modern Society, LE CAT7 (3 cr)

HLTH 1100—Health and Wellness Strategies for Life, LE CAT8 (3 cr)

HLTH 1600—Basic First Aid and CPR (2 cr)

HLTH 2040—Principles of Human Physiology (4 cr)

PE 2240—Lifeguarding Today (1 cr)

PE 2244—Water Safety Instructor (2 cr)

PEP 1001—Introduction to Physical Education (2 cr)

PEP 1010—Teaching Elementary Games and Gymnastics (1 cr)

PEP 1020—Teaching Rhythms (1 cr)

PEP 1310—Teaching Dance (2 cr)

PEP 1400—Teaching Tennis and Golf (1 cr)

PEP 1504—Teaching Skating (1 cr)

PEP 1600—Teaching Fitness and Weight Training (2 cr)

PEP 1700—Teaching Soccer and Softball (1 cr)

PEP 1710—Teaching Volleyball and Basketball (1 cr)

PEP 2000—Foundations of Physical Education (3 cr)

PSY 1003—General Psychology, LE CAT6 (4 cr)

BIOL 1001—Biology and Society, LE CAT4 (4 cr)

or BIOL 1011—General Biology I, LE CAT4 (5 cr)

HLTH 2030—Applied Human Anatomy (4 cr)

or BIOL 1761—Human Anatomy (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 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 or 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)

EDUC 3412 (register for 4 cr)

COMP 3140—Advanced Writing: Human Services (3 cr)

CC 3117—Functional Anatomy and Sport Injury Management (3 cr)

EDUC 3412—The Computer in Education (1–4 cr)

ESAT 3200—Motor Learning and Development (5 cr)

HLTH 3202—Drug Education (2 cr)

PEP 3010—Adapted Physical Education (3 cr)

PEP 3035—Physiology and Mechanics of Physical Activity (3 cr)

PEP 3700—Student Assessment in Physical Education (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 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

EDSE 4501—Educational Psychology (3 cr)

EDSE 4120—Philosophy and Organization of the Middle School (2 cr)

HPER 3000—Organization and Administration of Health, Physical Education, and Recreation (3 cr)

Take all of the following in the same term:

PEP 3720—Elementary Physical Education Methods (4 cr)

PEP 3721—Apprenticeship: Elementary (2 cr)

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.

EDSE 4100—Human Relations in Classrooms (2 cr)

EDSE 4214—Reading in the Middle and Secondary School, Grades 5–12 (2 cr)

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

EDSE 4600 (register for 6 cr)
EDSE 4650 (register for 6 cr)
 EDSE 4400—Professional Development Seminar for
 Secondary Education Majors (1 cr)
 EDSE 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 educational skills into its curriculum. This concentration better prepares the physical education teacher for professional expectations.

Outdoor education courses (11 cr)

Required Courses (8 cr)

PEP 3507—Teaching Outdoor Skills (2 cr)
 ENED 4163—Outdoor Education Methods (3 cr)
 PE 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 3309—Outdoor Leadership (1 cr)
 ENED 3310—Outdoor Leadership Field Experience (2 cr)
 ENED 4410—Ropes Course Management (3 cr)
 PE 1507—Introduction to River Kayaking, PE (1 cr)
 PE 1512—Fishing Skills, PE (1 cr)
 PE 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/psy 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 3985); or 3) 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.

To apply 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 1011 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
- Study abroad: psychology students are encouraged to study abroad using the many opportunities UMD offers. Information is available at www.d.umn.edu/ieo
- Personal experience with psychology: along with the core requirements and electives, students are encouraged to select at least one personal experience that fosters engagement with psychology: active membership in Psi Chi and Psychology Club; peer advisers; becoming

a research and/or teaching assistant in cooperation with a psychology faculty member; applying for a UROP or conducting research or a project through guided independent study (PSY 3994, 3995, 3998, 3999). Students can have a supervised internship experience in an organization (PSY 3011), prerequisite 3010

- Exit standards: GPA of 2.50 in all psychology courses to graduate with a major in psychology.

Psychology

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

Psychology B.A.Sc.

Core A (20 cr)

Note: PSY 3020, 3021, 3022 must be completed in sequence. PSY 2003, 3020 are prerequisites for PSY 3021. PSY 1003—General Psychology, LE CAT6 (4 cr)
 PSY 2003—Psychology: Discipline and Profession (1 cr)
 PSY 3020—Statistical Methods (4 cr)
 PSY 3021—Experimental Design and Methodology (4 cr)
 PSY 3022—Applied Methods and Measurement (4 cr)
 PSY 3081—History and Systems of Psychology (3 cr)

Core B

Take 2 or more course(s) totaling 6–8 credit(s) from the following:

PSY 2021—Developmental Psychology, LECD CAT6 (4 cr)
 PSY 3111—Theories of Personality (3 cr)
 PSY 3121—Abnormal Psychology (4 cr)
 PSY 3201—Social Psychology (3 cr)
 PSY 3520—Introduction to Industrial/Organizational Psychology (4 cr)

Core C

Take 2 or more course(s) totaling exactly 8 credit(s) from the following:

PSY 3061—Physiological Psychology (4 cr)
 PSY 3611—Learning and Behavior (4 cr)
 PSY 3621—Cognition (4 cr)
 PSY 3691—Sensation and Perception (4 cr)

Electives: 2xxx or higher

Recommended electives for areas of interest. All PSY 2xxx or higher can be used for electives.

Take 12–14 credit(s) including 0 or more sub-requirement(s) from the following:

I/O—6 cr recommended

Take 0–6 credit(s) from the following:

PSY 3520—Introduction to Industrial/Organizational Psychology (4 cr)
 PSY 3701—Personnel Psychology (3 cr)
 PSY 3707—Organizational Psychology (3 cr)
 PSY 3010—Internship Preparation (2 cr)
 PSY 3011—Internship in Psychology (3 cr)

Clinical/Counseling—9 cr recommended

Take 0–9 credit(s) from the following:

- PSY 3121—Abnormal Psychology (4 cr)
 PSY 2021—Developmental Psychology, LECD CAT6 (4 cr)
 PSY 3098—The Psychological Principles of Stress Management (3 cr)
 PSY 3540—Psychology of Food Abuse (3 cr)
 PSY 3524—Basic Helping Skills (4 cr)
 PSY 3122—Child and Adolescent Abnormal Psychology (3 cr)
 PSY 3613—Behavior Modification (3 cr)
 PSY 4121—Foundations of Clinical Psychology (3 cr)
 PSY 3201—Social Psychology (3 cr)
 PSY 3111—Theories of Personality (3 cr)
 PSY 4500—Health Psychology (3 cr)

Developmental—6 cr recommended

Take 0–6 credit(s) from the following:

- PSY 2021—Developmental Psychology, LECD CAT6 (4 cr)
 PSY 3631—Cognitive Development: Ways of Knowing (3 cr)
 PSY 3661—Psychology of Language (3 cr)
 PSY 3371—Child and Adolescent Psychology (3 cr)
 PSY 3381—Adult Development and Aging (3 cr)
 PSY 2023—Marriages and Families Worldwide, LEIP CAT8 (4 cr)
 PSY 3122—Child and Adolescent Abnormal Psychology (3 cr)
 PSY 2223—Gender in Society, LECD CAT8 (4 cr)
 PSY 3215—Topics in Human Sexuality (3 cr)

Human Services—10 cr recommended

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

- PSY 3524—Basic Helping Skills (4 cr)
 PSY 3211—Group Dynamics (3 cr)
 PSY 3010—Internship Preparation (2 cr)
 PSY 3011—Internship in Psychology (3 cr)
 PSY 3098—The Psychological Principles of Stress Management (3 cr)
 PSY 3601—Psychology of Personal Development (3 cr)
 PSY 2023—Marriages and Families Worldwide, LEIP CAT8 (4 cr)

Experimental—6 cr recommended

Take 0–6 credit(s) from the following:

- PSY 3061—Physiological Psychology (4 cr)
 PSY 3621—Cognition (4 cr)
 PSY 5130—Evolutionary Psychology (3 cr)
 PSY 5131—Mind-Body Connection (3 cr)
 PSY 3231—Psychology of Drug Use (3 cr)
 PSY 3661—Psychology of Language (3 cr)
 PSY 5155—Forensic Psychology (3 cr)

-or-

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**Psychology**

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, LECD CAT6 (4 cr)
 Take 10 or more credit(s) from the following:
 PSY 2xxx
 PSY 3xxx
 PSY 4xxx
 PSY 5xxx

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, 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 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-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. Admission to the program requires a 2.50 overall GPA.

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

Lower Division Core (25 cr)

- HLTH 1700—First Responder (3 cr)
 PSY 1003—General Psychology, LE CAT6 (4 cr)
 REC 1000—Introduction to Recreation (4 cr)
 REC 1203—Outdoor Skills I (2 cr)
 REC 1204—Outdoor Skills II (2 cr)

- REC 2300—Recreation Programming (3 cr)
 BIOL 1011—General Biology I, LE CAT4 (5 cr)
 or BIOL 1012—General Biology II (5 cr)
 Take 2 or more credit(s) from the following:
 PE 1xxx

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 recreation—outdoor education include:

- Liberal education requirements
- Advanced writing requirement: COMP 3140—Advanced Writing: Human Services or COMP 3160—Advanced Writing: Social Services (3 cr)
- No grades lower than C- in courses required for the major
- 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.

Upper Division Core (49 cr)

- Enrollment in ENED 4996 requires an overall GPA of 2.50.
 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 4315—Operations and Management (4 cr)
 ENED 4555—Foundations of Environmental Education (3 cr)
 ENED 4996—Outdoor Education Internship (12 cr)
 HPER 3100—Risk Management (2 cr)
 HPER 3200—Research and Evaluation in Health Science (3 cr)

PEP 3501—Teaching Cross-Country Skiing (1 cr)
 PEP 3507—Teaching Outdoor Skills (2 cr)
 PEP 3509—Teaching Canoeing (1 cr)
 REC 3327—Large Event Management (3 cr)
 REC 3330—Outdoor Recreation (3 cr)
 REC 4320—GIS Management for Recreation Professionals (3 cr)

Approved Electives—Natural Sciences

The BIOL and GEOL field courses require adviser approval. Take 10 or more credit(s) from the following:

BIOL 2xxx
 BIOL 3xxx
 BIOL 4xxx
 GEOL 2xxx
 GEOL 3xxx
 ENED 5343—Advanced Field Interpretive Techniques (3 cr)

GEOG 4451—The Geography of Soils (4 cr)
 HLTH 2030—Applied Human Anatomy (4 cr)
 HLTH 2040—Principles of Human Physiology (4 cr)

Approved Electives—Social Sciences

Take 10 or more credit(s) from the following:

ENED 3331—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 3505—Teaching Whitewater Kayaking (1 cr)
 PEP 3506—Teaching Sea Kayaking (1 cr)
 PEP 3508—Teaching Rock Climbing (1 cr)
 PEP 3520—Alpine Ski Instructor's Course (1 cr)
 PSY 3211—Group Dynamics (3 cr)
 PSY 3524—Basic Helping Skills (4 cr)
 REC 3320—Recreational Sports (3 cr)
 REC 4991—Independent Study (1–4 cr)
 REC 4992—Readings in Recreation (1–4 cr)

Recreation-Outdoor Education Minor

Health, Physical Education, and Recreation

Required credits in this minor: 23 to 24

The recreation-outdoor education minor familiarizes students with nonformal outdoor education settings.

Admission Requirements

Freshmen and transfer students are usually admitted to pre-minor status before admission.

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)

REC 1000—Introduction to Recreation (4 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)

Upper Division Core (16 cr)

ENED 4163—Outdoor Education Methods (3 cr)
 PEP 3507—Teaching Outdoor Skills (2 cr)
 REC 2300—Recreation Programming (3 cr)
 REC 4997—Recreation Practicum (3 cr)
 Rec 3xxx–5xxx

Take 5 or more credit(s) from the following:

REC 3xxx
 REC 4xxx
 REC 5xxx

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 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.

Lower Division (18 cr)

COMM 1112—Public Speaking, LE CAT3 (3 cr)
 COMM 1222—Interpersonal Communication, LECD 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, LEIP 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 3121 or ENGL 5116 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.

Upper Division (77–78)

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 4400—Professional Development Seminar for Secondary Education Majors (1 cr)
 EDSE 4501—Educational Psychology (3 cr)
 EDSE 4600—Student Teaching (6–12 cr)
 EDSE 4120—Philosophy and Organization of the Middle School (2 cr)
 EDSE 4215—Teaching Reading and Literature: Grades 5–12 (5 cr)
 ENGL 3501—British Literature I (4 cr)
 ENGL 3563—American Literature I (4 cr)
 ENGL 3564—American Literature II (4 cr)
 ENGL 3906—Methods of Literary Study (4 cr)
 ENGL 5902—Teaching Language, Cognition, and Writing (4 cr)
 ENGL 5922—Teaching Literature and Communication (5 cr)
 HLTH 3202—Drug Education (2 cr)
 LING 5802—Applied Linguistics (4 cr)
 Take 3–4 credit(s) from the following:
 ENGL 3xxx
 ENGL 4xxx
 British Period Literature
 Take 4 or more credit(s) from the following:
 ENGL 5xxx

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, however, candidates who wish to earn credit may register for EDUC 4991.

Teaching Earth and Space Science B.A.Sc.

Education, Geological Sciences

Required credits to graduate with this degree: 130 to 143

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 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 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 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)

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

Lower Division (54 cr)

AST 1040—Introductory Astronomy, LE CAT5 (3 cr)

BIOL 1011—General Biology I, LE CAT4 (5 cr)

BIOL 1012—General Biology II (5 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)

GEOL 1610—Oceanography, LE CAT5 (3 cr)

GEOL 2110—Earth History (3 cr)

GEOL 2300—Basic Mineralogy and Petrology (4 cr)

GEOL 2350—Earth's Resources, LEIP CAT5 (3 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 (53 cr)

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.

EDUC 3412 (register for 4 cr)

EDSE 4600 (register for 12 cr)

EDUC 3412—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)

EDSE 4255—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)

EDSE 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)

HLTH 3202—Drug Education (2 cr)

GEOL 3210—Geomorphology (3 cr)

or GEOL 2120—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 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)

and

HLTH 1700—First Responder (3 cr)

Electives

Pre-approved natural science courses may be substituted.

Take 5 or more credit(s) from the following:

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)

ES 2803—Issues in Global Ecology, LEIP CAT5 (3 cr)

GEOL 4210—Glacial and Quaternary Geology (3 cr)

Teaching French 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.A. in teaching French is offered through the Department of Education in conjunction with the Department of Foreign Languages and Literatures. This major prepares students for licensure as a French teacher from kindergarten through grade 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 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.

Program Requirements

Requirements for the B.A.A. in teaching French 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)
- 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 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.

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 GER 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)

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 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)

FR 3xxx–5xxx: Including one culture course taught in French (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 German 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.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.

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 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)

Ger 3xxx–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 grade 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.

Admission Requirement

EDUC 1101—Education in Modern Society, LE CAT7 (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 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)

BIOL 4801—Evolution (2 cr)

EDUC 3412—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)

EDSE 4255—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)

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 2110—Earth History (3 cr)
 or GEOL 2120—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, 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 (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 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 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 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 3611—Introduction to Probability and Statistics (4 cr)

Diversity Immersion Experience

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.

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 grade 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.

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.

Upper Division

EDUC 3412 (register for 4 cr)
EDSE 4600 (register for 12 cr)
EDUC 3412—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)
EDSE 4255—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)
EDSE 4120—Philosophy and Organization of the Middle School (2 cr)
HLTH 3202—Drug Education (2 cr)

Program Sub-Plans

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

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 CAT5 (3 cr)
BIOL 1011—General Biology I, LE CAT4 (5 cr)
BIOL 1012—General Biology II (5 cr)
CHEM 1151—General Chemistry I, LE CAT4 (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 CAT7 (3 cr)
GEOL 1110—Geology and Earth Systems, LE CAT4 (4 cr)
PHYS 1001—Introduction to Physics I, LE CAT4 (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—Geomorphology (3 cr)
MATH 1290—Calculus for the Natural Sciences, LE CAT2 (5 cr)
or MATH 1296—Calculus I, LE CAT2 (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 CAT5 (3 cr)
BIOL 1011—General Biology I, LE CAT4 (5 cr)
BIOL 1012—General Biology II (5 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)
EDUC 1101—Education in Modern Society, LE CAT7 (3 cr)
GEOL 1110—Geology and Earth Systems, LE CAT4 (4 cr)
MATH 1296—Calculus I, LE CAT2 (5 cr)
MATH 1297—Calculus II (5 cr)
PHYS 2011—General Physics I, LE CAT4 (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 CAT3 (3 cr)
or CS 1135—Introduction to Programming in FORTRAN 90, LE CAT3 (2 cr)
GEOL 2110—Earth History (3 cr)
or GEOL 2120—The Earth's Dynamic Interior (3 cr)
or GEOL 3210—Geomorphology (3 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;
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 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 social studies include:

- Liberal education requirements
- Advanced writing requirement: COMP 3140—Advanced Writing: Human Services 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, LECD CAT6 (4 cr)
- GEOG 1414—Physical Geography, LE CAT4 (4 cr)
- ANTH 1602—Prehistoric Cultures, LEIP CAT7 (4 cr)
or ANTH 1604—Cultural Anthropology, LEIP CAT6 (4 cr)
- ECON 1003—Economics and Society, LE CAT8 (3 cr)
or ECON 1022—Principles of Economics: Macro, LE CAT6 (3 cr)
or ECON 1023—Principles of Economics: Micro, LE CAT6 (3 cr)
- GEOG 1202—World Regional Geography, LEIP CAT8 (3 cr)
or GEOG 1304—Human Geography, LECD CAT6 (3 cr)
- HIST 1207—Dawn of Modern Europe, LE CAT7 (3 cr)
or HIST 1208—Europe in the Modern Age, LE CAT7 (3 cr)
- HIST 1304—US History Part I: 1607-1877, LE CAT7 (3 cr)
or HIST 1305—US History Part II: 1865–Present, LE CAT7 (3 cr)
- POL 1050—International Relations, LEIP CAT8 (3 cr)
or POL 1500—Introduction to Comparative Politics, LEIP CAT6 (3 cr)
or 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 2515—Precolonial Africa, LECD CAT7 (3 cr)
- HIST 3516—Society and Culture in 20th-Century Africa (3 cr)
- POL 3570—Politics of Developing Nations (3 cr)
- SPAN 2540—Latino Literatures and Cultures, LECD CAT8 (3 cr)

Education Courses (48 cr)

- EDUC 3412 (register for 4 cr)
- EDUC 4600 (register for 12 cr)
- EDUC 1101—Education in Modern Society, LE CAT7 (3 cr)
- EDUC 3412—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 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)
- HLTH 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 percentage (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. Registration for credit is not required for this experience; however, candidates who wish to earn credit may register for EDUC 4991.

Program Sub-Plans

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

Anthropology Emphasis (18 cr)

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

Take no more than 10 credit(s) from the following:

- ANTH 3xxx
ANTH 4xxx

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.

- ECON 1022—Principles of Economics: Macro, LE CAT6 (3 cr)
- ECON 1023—Principles of Economics: Micro, LE CAT6 (3 cr)

Take no more than 12 credit(s) from the following:

- ECON 3xxx
ECON 4xxx
ECON 5xxx

Geography Emphasis (18 cr)

- GEOG 3401—Weather and Climate (3 cr)
- GEOG 3702—Geography of the United States and Canada (3 cr)
- GEOG 5612—Field Techniques (4 cr)
- Take 8–9 credit(s) from the following:
GEOG 3xxx
GEOG 4xxx
GEOG 5xxx

History Emphasis

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

Take no more than 18 credit(s) from the following:

Subrequirement I: United States History

- Take 0–8 credit(s) from the following:
HIST 2353—American Youth Culture (3 cr)
- HIST 2355—United States Military History, LE CAT7 (3 cr)
- HIST 2357—Women in American History, LECD CAT7 (3 cr)
- HIST 3316—US Social History, 1800-1916 (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 0–8 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)
- CST 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: Archaic and Classical Greece (3 cr)
- HIST 3335—From Alexander to Mohammed (3 cr)
- HIST 3xxx
HIST 4xxx
HIST 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 3xxx
- HIST 4xxx
- HIST 5xxx

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 CAT8 (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 3xxx
 - SOC 4xxx

Women's Studies Emphasis (18 cr)

- WS 1000—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 4323—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.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 CAT7 (3 cr)
- SPAN 1101—Beginning Spanish I, LE CAT3 (4 cr)
- SPAN 1102—Beginning Spanish II, LE CAT3 (4 cr)
- SPAN 1201—Intermediate Spanish I, LE CAT3 (4 cr)
- SPAN 1202—Intermediate Spanish II, LEIP CAT3 (4 cr)
- SPAN 2301—Advanced Spanish, 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 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.

Students interested in EBD or LD typically earn licensure 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/post_bac.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 1000—Human Development (3 cr)

EDUC 1101—Education in Modern Society (3 cr)

HLTH 3202—Drug Education (2 cr)

PSY 2021—Developmental Psychology (3 cr)

Special Education Core (42 credits)

SPED 4381/5381—Behavior Management Principles and Practices (4 cr)

SPED 4204/5204—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 4435/5435—Parent and Professional Communication and Collaboration (4 cr)

SPED 4452/5452—Academic Interventions for Students With Disabilities (4 cr)

SPED 4455/5455—Transitional Planning for Adolescents With Disabilities (4 cr)

SPED 4486/5486—Teaching Reading, Writing and Math (3 cr)

SPED 4555/5555—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 5351—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 licensures 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—Foundational 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 2021—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 incompletes 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)
 ECH 4400—Professional Development Seminar (1 cr)
 ECH 4600—Student Teaching in Early Childhood/Primary (3–12 cr)
 ECH 4610—Professional Issues Seminar in Early Childhood Education (1 cr)
 EDUC 3412—The Computer in Education (1–4 cr)
 HLTH 3161—School Health Programs: Early Childhood through Middle School (2 cr)

- SPED 3103—Infants and Toddlers With Special Needs (4 cr)
 SPED 3105—Young Children With Special Needs: Ages Three-Eight (4 cr)
 SPED 3106—Working with Young Children with Low Incidence Disabilities (4 cr)
 SPED 3109—Working with Challenging Behavior in Young Children (3 cr)
 SPED 3205—Assessment in Early Childhood Special Education (4 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.