

College of Education and Human Service Professions (CEHSP)

Dean: Paul N. Deputy
125 Bohannon Hall, (218) 726-7131

Associate Dean: Edmond Lundstrom
125 Bohannon Hall, (218) 726-7131

The faculty and administrative officers of the College of Education and Human Service Professions are dedicated to preparing highly qualified leaders in human service professions, including education, social work, allied clinical health, mental health, and selected human service fields. Students are prepared for employment in industry, school and non-school educational settings, community agencies, and government.

Five departments work cooperatively to achieve the purposes of the college in teaching, research, service, and program development. The office of the dean is responsible for programmatic leadership, curricula (including NCATE and Minnesota Board of Teaching-approved teacher education programs), and for recommending graduates for licensure. The departments that have responsibility for degree and licensure programs are Communication Sciences and Disorders; Education, Health, Physical Education & Recreation; Psychology and Mental Health; and Social Work.

Teacher Licensure Programs

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

Admission to Upper Division Programs

In addition to the freshman or lower division admission process, students majoring in this college must apply for admission to an upper division program. Admission 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 participated in a personal interview to review these matters. Standards are set by the

individual departments, and students should consult their adviser or department office for information.

Most degree programs in this college require a 2.50 or higher minimum GPA for admission and/or graduation.

The college has adopted policies that allow for alternatives to the established admission procedures to encourage the participation of individuals from underrepresented groups and other students as determined by the program faculty.

Academic Standing

Good Academic Standing

Students enrolled in programs within the college are required to maintain a minimum cumulative GPA of 2.00 to be in good academic standing. Eligibility to pursue coursework does not imply eligibility for admission to programs, continued candidacy, or graduation from degree programs that require a 2.50 or higher GPA.

Probation

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

Dismissal

Students who fail to attain the required minimum cumulative GPA after the semester of initial probation are subject to dismissal. No student is dismissed before attempting 30 credits. 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 GPA for good academic standing has been attained through University College Duluth or summer school. Students who have been academically dismissed must receive permission from the college office in order to register through University College. Students may not make up grade point deficiencies outside the University of Minnesota. Petition information is available at the CEHSP Student Affairs Office, 115 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, 115 Bohannon Hall.

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 cumulative GPAs required for the three honors categories are available at the college's Student Affairs Office.

All transfer credits that are counted toward meeting graduation requirements at UMD must be included in calculating the cumulative GPA for honors purposes. Grades in transfer courses cannot qualify a student for honors if the cumulative GPA for UMD credits does not merit honors, and they cannot qualify a student to earn a higher honors classification than that earned on the basis of UMD credits. UMD credits include those earned through day school, extension, and summer session.

Department Honors Programs

Honors programs are available in several departments within the college. Honors program admission requirements and specific honors opportunities vary. See the department head or adviser for further information.

Student Affairs Office

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, 115 Bohannon Hall (218/726-7156). Applications for Minnesota state licensure and postbaccalaureate contract forms for baccalaureate degree students seeking licensure or certification are also available in this office.

Continuing Education

The college has an office that coordinates University College Duluth (UCD) courses, conferences, and institutes. Both undergraduate- and graduate-level credits may be earned through UCD. In-service educators may apply credits earned through UCD to the M.Ed. program and, with Graduate School approval, to Graduate School programs. For more information, contact UCD, 104 DAdB (218/726-6797).

Degrees Offered

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

This degree program prepares students to teach in secondary education and offers the nonteaching field of exercise science.

Majors

- Teaching communication arts/literature
- Teaching French
- Teaching German
- Teaching social studies
 - Anthropology
 - Economics
 - Geography
 - History
 - Political science
 - Psychology
 - Sociology
- Teaching Spanish

Majors in art education for the B.F.A. degree and in music education for the B.M. degree are available through the School of Fine Arts.

Bachelor of Applied Science (B.A.S.)

This degree program prepares students to teach in elementary and secondary education and offers the nonteaching fields of communication sciences and disorders, psychology, and recreation.

Majors

- Communication sciences and disorders
- Early childhood studies
- Elementary/middle school teacher education
- Exercise science
 - Adult fitness
 - Athletic training
 - Exercise science
 - Special area of interest
- Health education
 - Community health
 - School health
- Physical education
- Psychology
- Recreation
 - Outdoor education
 - Recreational sport
- Teaching earth sciences
 - General
 - Outdoor education
- Teaching life science
 - General
 - Outdoor education
- Teaching mathematics
- Teaching physical sciences
- Teaching science (middle school)

Minors

- Coaching
- Early childhood studies
- Health education
- Psychology
- Recreation—outdoor education
- Recreation—recreational sport
- Social studies (elementary school)
- Teaching communication arts/literature
- Teaching earth sciences
- Teaching English (elementary/middle school)
- Teaching French
- Teaching German
- Teaching life sciences
- Teaching mathematics
- Teaching physical sciences
- Teaching physics
- Teaching science (elementary/middle school)
- Teaching Spanish

For other minors available to students receiving a B.A.A. or B.A.S., see School of Business and Economics, School of Fine Arts, College of Liberal Arts, and College of Science and Engineering.

B.A.A. and B.A.S. Requirements—Students pursuing a teaching major must apply to and be accepted by the Department of Education. Students seeking a K-12 licensure in art, music, foreign languages, or physical education must apply to both the Department of Education and the content area department. B.A.A. and B.A.S. requirements include the following:

- Completion of at least 35 credits in liberal education coursework as prescribed in the Policies and Procedures section of this catalog.

- Completion of one or more majors with a 2.50 minimum GPA in each or as required by individual departments. Students must apply to the department(s) offering the major for acceptance into the program.
- A 2.50 minimum GPA or as required by individual departments in all work attempted in residence at UMD and in the college, including credits transferred from outside UMD.
- Completion of elective 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 should review their degree status in the Office of the Registrar early in their senior year.
- At least 30 credits earned while in residence in the college. Fifteen of the last 30 credits of degree requirements must be earned in residence in the college.

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

If a student elects to complete a minor applicable to teacher licensure for either the B.A.A. or B.A.S., it must be in connection with a teaching major for either of the degrees.

Master of Education (M.Ed.)

Director and Associate Dean: E. Lundstrom
125 Bohannon Hall, (218) 726-7131

The M.Ed. program offers professional development for those in education or human service professions: classroom teachers, educators in specialized areas, and professionals with training responsibilities in health sciences, social services, and community education. In consultation with a faculty committee, candidates plan a program of study to meet core and individual goals and establish a knowledge base that incorporates the college's philosophy of the full integration of reflection, empowerment, diversity, and collaboration.

Degree Requirements—The M.Ed. program requires 30 credits, including 1) demonstrated competencies in human diversity and exceptionality, social responsibility, learning, research, and technology; 2) coursework to achieve professional growth and goals; 3) a field research project and/or paper (4-6 credits); and 4) the following degree

requirements: all degree requirements must be completed within seven years, at least 20 credits must be completed after the candidate is formally admitted to the program, no more than 8 credits may be transferred to the M.Ed. program (these credits must be from accredited programs at the graduate level and approved by the M.Ed. advising committee and the director), coursework taken before admission (including transfer credits) can be included only if recommended by the M.Ed. committee and approved by the director (coursework must have been taken within the last five years and be graduate level), and the program must be recommended by the student's M.Ed. committee and approved by the director and recorded in the M.Ed. office within one semester after admission. Students may complete a concentration and have the notation "(with concentration in _____)" placed on their diplomas and transcripts. A concentration requires at least 15 graduate credits in a specific area (e.g., early childhood studies, environmental education, special education, technology).

Admission—Admission is based on the Graduate Record Examination (GRE) General Test or a portfolio that documents professional competence and professional goals, the undergraduate scholastic record, evaluations by supervisors, and availability of courses and faculty. International students must have a TOEFL score of 500 or higher.

Application—For an admission application, write to the Director, M.Ed. Program, 125 Bohannon Hall, University of Minnesota Duluth, MN 55812. Submitted applications must include one official transcript of all college work, the completed application, the application fee, and test results or portfolio.

Application Fee—A nonrefundable application fee of \$30 is required. Checks should be made payable to the University of Minnesota.

Graduate Record Examination—The GRE may be taken at UMD. Contact Career Services, 21 Campus Center, University of Minnesota Duluth, MN 55812 for dates and application.

Portfolio—Information regarding portfolio preparation and content may be obtained by contacting the M.Ed. program director, 125 Bohannon Hall.

Graduate School—The M.A. in counseling psychology is for those interested in obtaining counselor certification for school and agency settings. The M.A. 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 Graduate School.

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.

Students seeking a teaching license must complete a program approved by the Minnesota Board of Teaching; the college then recommends that an appropriate license be issued. Approved programs are available in the following:

Majors

Early childhood studies
Elementary/middle school teacher education
Health education
Physical education
Teaching communication arts/literature
Teaching earth sciences
Teaching French
Teaching German
Teaching life science
Teaching mathematics
Teaching physical sciences
Teaching science (grades 5-9)
Teaching social studies
Teaching Spanish

Teaching License Programs

Early childhood/special education
Emotional disabilities
English as a second language teaching
Family education—early childhood
Family education—parent education
Learning disabilities
Speech-language pathologist (graduate only)

Advanced Licensure Programs

Requirements for a teaching license at the early childhood, elementary, and secondary levels include completion of

- a B.A.A., B.A.S., B.F.A. in art education, or B.M. in music education, including an NCATE and Minnesota Board of Teaching-approved teaching major.
- an approved program in drug education (Hlth 3202—Drug Education or Hlth 5161—School Health Programs: Early Childhood Through Middle School).

- an approved course in human relations (see requirement listed for each teaching major).
- the Pre-Professional Skills Tests (PPST) (required for initial Minnesota licensure). Students are encouraged to take the PPST during their freshman or sophomore year. They must have taken it before they can be admitted to upper division education courses. Students cannot be recommended for initial licensure until they pass the PPST.

Students must apply to the Department of Education for admission to the above programs. Students in art education, health education, music education, or physical education must also apply to the content area department.

Postbaccalaureate Contracts

Students seeking a teaching license who have already completed a baccalaureate program must apply for a postbaccalaureate student contract evaluation specifying the additional coursework necessary to meet the requirements of the approved teaching licensure program. More information and applications are available from the college's Student Affairs Office, 115 Bohannon Hall (218/726-7156).

License Application

Teaching license applications may be obtained from the Student Affairs Office, 115 Bohannon Hall (218/726-7156). The completed application, required fees, evidence of passing scores on the PPST, Federal Bureau of Investigation (FBI) background check, finger printing, and official transcripts must be submitted before action by the college licensure officer and transmittal 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 Programs Coaching

Health, Physical Education, and Recreation

Minor Only

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.

Requirements

The coaching minor (19 credits) 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.

Required Courses

CC 3100—Sports Science for Coaches (2)
or PEP 3030*—Human Biomechanics (3)
CC 3116—Care and Prevention of Sports Injuries (3)
CC 3150—Coaching Methods (2)
CC 3160—Psychological Aspects of Coaching (2)
CC 3161—Administrative Aspects of Coaching (2)
CC 3997—Coaching Practicum (1)

Specific Coaching Strategies

2 credits from CC 3170 through 3179
Hlth 1470**—Human Nutrition (3)

Hlth 1600—Basic First Aid (2)

*Physical education majors only.

**Courses that may be used to fulfill UMD liberal education program requirements.

Communication Sciences and Disorders (CSD)

Professors: John T. Hatten, Ash M. Hawk; *Associate Professors:* Faith C. Loven, Mark I. Mizuko (department head), Cindy S. Spillers; *Clinic Coordinator:* LaVonne Levar

B.A.S.

To meet the many and expanding challenges within the communication disorders field, the Department of Communication Sciences and Disorders offers high quality education and clinical experience at the undergraduate and graduate levels. The undergraduate major

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 healthcare 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 who wish to obtain an undergraduate degree in communication sciences and disorders must be formally admitted to the program. Department and registrar approval of the upper division papers constitutes formal admission to the undergraduate program. To have upper division 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 upper division 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.

Maintenance Standards

Undergraduates with approved upper division papers 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. Students on probation have one semester (including day school, UC, and summer school) 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 and cannot enroll in further CSD courses. They also cannot complete their undergraduate degree in communication sciences and disorders at UMD. Undergraduates are placed on academic probation only once before being dismissed from the program.

The program allows for alternatives to the established probation procedures on a case-by-case basis.

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 preparation program that has been approved by the Minnesota Board of Teaching. Interested students should consult with the Department of Communication Sciences and Disorders.

Professional Certification

Students interested in professional certification in speech-language pathology or audiology should consult with the Department of Communication Sciences and Disorders. They also should refer to the Graduate School section of this catalog for a description of the master of arts program in communication sciences and disorders.

Accreditation

The graduate program is accredited by the Council of Academic Accreditation (CAA) of the American Speech-Language-Hearing Association (ASHA). CAA accreditation is recognized by the U.S. Department of Education and the Council for Higher Education Accreditation.

Degree Requirements

The B.A.S. degree program (120 credits) provides students with a foundation in human communication processes and communication disorders. Students must complete:

- Liberal education requirements
- Advanced writing requirement: Comp 3140—Advanced Writing: Human Services *or* Comp 3150—Advanced Writing: Science *or* Comp 3160—Advanced Writing: Social Sciences (3 credits)
- Major requirements (82 credits): lower and upper division major requirements (74), approved electives (8)

Students intending to pursue a Minnesota speech-language pathology (SLP) teaching license are advised to choose electives from the Minnesota SLP Teaching License electives on the next page.

Required Courses

- CSD 1100*—Phonetics (2)
- CSD 2230*—Human Communication Disorders (4)
- CSD 3100—Normal Aspects of Human Communication (3)
- CSD 3103—Anatomy of Speech and Hearing Mechanisms (3)
- CSD 3105—Fundamentals of Hearing and Speech Science (5)
- CSD 3130—Language Development and Disorders (4)

Colleges and Schools

- CSD 3200—Articulation and Phonological Disorders (3)
CSD 3230—Diagnostic and Treatment Methods in Communication Disorders (4)
CSD 4197—Clinical Practicum in Communication Disorders (6)
CSD 4200—Introduction to Fluency Disorders (2)
CSD 4400—Hearing Disorders and Evaluation (3)

Required Courses From Other Programs

- Biol 1011*—General Biology I (5)
Biol 1761—Human Anatomy (4)
Comm 1112*—Public Speaking
or Comm 1222*—Interpersonal Communication (3)
Comp 1120*—College Writing (3)
Hlth 2040—Principles of Human Physiology (4)
Ling 1811*—Introduction to Language (3)
Math 1024*—Introduction to Contemporary Mathematics (3)
Phys 1001*—Introduction to Physics I (5)
Psy 1003*—General Psychology (4)
Psy 3020—Statistical Methods (4)

Electives (8cr)**

- CSD 2001*—American Sign Language Studies I (3)
CSD 2002*—American Sign Language Studies II (3)
CSD 4097—Introduction to Clinical Practicum in Communication Disorders (1)
CSD 5000—Departmental Seminar (1-3)
CSD 5003—American Sign Language Studies III (3)
CSD 5004—American Sign Language Studies IV (3)
CSD 5091—Independent Study (1-3)
CSD 5098—Workshop: (Various Titles to be Assigned) (1-3)
CSD 5400—Rehabilitative Procedures for the Hard of Hearing (3)
or any courses listed under requirements for the Minnesota SLP Teaching License

*Courses that may be used to fulfill UMD liberal education program requirements.

**Students wishing to obtain a Minnesota SLP Teaching License are encouraged to take courses from the following to fulfill the elective requirement:

- Educ 1101*—Education in Modern Society (3)
Educ 4500—Professional Issues in Teaching (3)
EdSe 5100—Human Relations in Classrooms (2)
Hlth 3202—Drug Education (2)
SpEd 5433—Foundations in Special Education (4)
SpEd 5435—Parent and Professional Communication and Collaboration in the Special Education Process (4)

The Communication Sciences and Disorders Department has a list of courses offered in other departments and approved for elective credits. Students should contact their adviser for an updated list.

Exit Standards

Senior-level students in good academic standing are required to complete 6 credits of CSD 4197—Clinical Practicum in Communication Disorders. This practicum 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.

Early Childhood Studies (ECh)

Faculty: Carlson (Educ); Das (PMH); Hatten (CSD); Hazareesingh (Educ); Karp (Educ); Kritzmire (Music); Nierengarten (HPER); Quintero (Educ); Shannon (Educ); Watts (PMH); Wohlhuter (Educ)

B.A.S.

The early childhood studies programs have interdisciplinary curricula that prepare students for work in a variety of settings with children from birth to age eight. Graduates find employment in nursery schools, the primary grades in elementary schools, childcare centers, Head Start programs, home-based programs, parent education, and community education programs. All students complete a common core of courses in child development, parent-child relations, early childhood education, early childhood special education, community resources, and organizational management and supervision.

The early childhood studies major leads to Minnesota licensure in early childhood education (birth to age 8). With the addition of one semester of coursework, students are eligible for licensure in early childhood special education or early childhood parent education, depending on the student's preference.

Student teaching placements in diverse programs in the United States or internationally are available.

Admission Requirements

The number of students admitted to candidacy in the programs 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 as indicated on the application form, and satisfactory completion of the Pre-Professional Skills Test (PPST). Applications and a booklet describing how to sign up for the PPST are available in 120 Montague Hall. An entrance interview may be requested by the faculty selection committee. Applications, including all supporting documents, are due by 4:00 p.m. on the third Friday of each semester for admission

the following semester. Students interested in the major are advised to apply during their freshman 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.

Maintenance Standards

Students who do not maintain satisfactory levels of progress (GPA of 2.70 in all program-required courses and acceptable performance in field experiences) will have their candidacy rescinded.

Student Teaching

Application for student teaching must be made by the first Friday of the semester before student teaching. Applications are available in 120 Montague Hall. All incompletes must be cleared before filing the application. Students must have a 2.70 GPA to be eligible for student teaching.

Exit Criteria

Recommendations for licensure are based on successful completion of all program-related courses, demonstration of satisfactory performance outcomes required by the program, and acceptable performance in field experiences, including student teaching.

Grievance Procedure

Procedures for resolving student grievances are available from the program coordinator.

Personal Liability Insurance

Students must obtain personal liability insurance to protect themselves while working in programs. This usually is obtained most economically by a student membership in Education Minnesota. Applications are available in the department office.

Degree Requirements

Requirements for the B.A.S. in early childhood studies (120 credits) include:

- Liberal education requirements
- Advanced writing requirement: Comp 3140—Advanced Writing: Human Services (3 credits)
- Major requirements (96-97 credits—some courses also fulfill liberal education requirements) satisfy the requirements for early childhood licensure in Minnesota

Four optional areas of specialization (3-13 credits).

Required Courses

Lower Division (28-29)

- CS 1011*—Introduction to Computers and Software (3)
 - ECh 2010—Introduction to Early Childhood Education: Birth-Age Eight (3)
 - Educ 1000—Human Development (3)
 - or Psy 2021*—Developmental Psychology (4)
 - Educ 1100*—Human Diversity (3)
 - Educ 1101*—Education in Modern Society (3)
 - Hlth 1470*—Human Nutrition (3)
 - Psy 1003*—General Psychology (4)
 - Soc 1201*—Sociology of the Family (3)
 - SpEd 1357*—Individuals with Disabilities in Society (3)
- * Courses that may be used to fulfill UMD liberal education program requirements.

Upper Division (67)

Courses taken before the block courses (6)

- Art 3806—Early Childhood Art (1)
- Comm 3122—Group Leadership (3)
- Mu 3603—Music for Early Childhood (1)
- PE 3750—Movement Experience for the Young Child (1)

Block 1 (16)

- CSD 3130—Language Development and Disorders (4)
- ECh 3010—Programs for Education of Young Children: Birth-Age Eight (4)
- ECh 3050—Observing and Guiding Behavior: Birth-Age Eight (4)
- SpEd 3103—Infant and Toddler with Special Needs (4)

Block 2 (17)

- ECh 3020—Literacy, Literature and Mathematics: Birth-Age Eight (5)
- ECh 3030—Inquiry Social Studies and Science Learning: Birth-Age Eight (5)
- ECh 3040—Creative Expression (3)
- SpEd 3105—Young Children with Special Needs: Ages Three-Eight (4)

Courses to be taken after the block courses (14)

- Comp 3140—Advanced Composition (3)
- ECh 4009—Early Childhood Administration (2)
- Hlth 5161—School Health Programs: Early Childhood Through Middle School (2)
- Psy 5251—Parenting (3)
- SpEd 5435—Parent Professional Communication (4)

Student Teaching (14)

- Students must take these two courses concurrently.
- ECh 4600—Student Teaching in Early Childhood/Primary (12)
 - ECh 4610—Professional Issues Seminar in Early Childhood Education (2)

Specializations (Optional) (3-13)

Four options: infants and toddlers, field experiences in diverse sites, early childhood special education licensure, and parent educator licensure

Infants and Toddlers:

ECh 2910—Caring for Infants and Toddlers

or ECh 5910—Caring for Infants and Toddlers (3)

ECh 4600—Student Teaching in Early Childhood/Primary (6) (Student Teaching with Infants and Toddlers)

Diverse Field Experience (complete one of the following):

Outside the United States

Educ 3804—Programs for Young Children: Global Perspectives (4)

or Educ 5804—Programs for Young Children: Global Perspectives (4)

Within the United States

ECh 3950—Guided Observations in Diverse Settings, Birth-Age Eight (3-6)

or ECh 5950—Guided Observations in Diverse Settings, Birth-Age Eight (3-6)

Early Childhood Special Education Licensure:

Completion of this option along with the early childhood studies major results in recommendation for early childhood special education licensure.

SpEd 3205—Assessment in Early Childhood Special Education (4)

SpEd 5600—Student Teaching (9)

Parent Educator Licensure:

Completion of this option along with the early childhood studies major results in recommendation for parent educator licensure.

ECh 4011—Parent Education (4)

Educ 4650—Student Teaching in Parent Education (2)

Exit Standards

Students must successfully complete a student teaching experience and meet other competencies required for Minnesota teacher licensure.

Minor Requirements (33-34)

Lower Division (6-7)

ECh 2010—Introduction to Early Childhood Education: Birth-Age Eight (3)

Educ 1000—Human Development (3)

or Psy 2021*—Developmental Psychology (4)

Upper Division (27)

ECh 3010—Programs for Education of Young Children: Birth-Age Eight (4)

ECh 3020—Literacy, Language, and Mathematics: Birth-Age Eight

or ECh 3030—Inquiry Social Studies and Science Learning: Birth-Age Eight (5)

ECh 3040—Creative Expression (3)

ECh 3050—Observing and Guiding Behavior: Birth-Age Eight (4)

ECh 4600—Student Teaching in Early Childhood/Primary (6)

ECh 4610—Professional Issues Seminar in Early Childhood Education (2)

Psy 5251—Parenting (3)

* Courses that may be used to fulfill UMD liberal education program requirements.

Education (Educ)

Professors: Thomas G. Boman, Helen L. Carlson, Joan M. Karp, David A. McCarthy, Linda Miller-Cleary (Engl); *Associate Professors:* Francis A. Gulbrandsen, Nedra A. Hazareesingh, Clayton E. Keller, June E. Kreutzkamp, Bruce H. Munson, Thomas D. Peacock, Gwen Perun, Elizabeth P. Quintero, Helen Rallis, Mary Kay Rummel, Terrie M. Shannon (*department head*); *Assistant Professors:* Manuel T. Barrera III, Kay Wohlhuter; *Instructor:* Jane E. Dietrich

The department offers programs for the baccalaureate degree or licensure within the general areas of 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 Department of Education has adopted the Learner-Sensitive Teacher model, and each program emphasizes the five themes of diversity, collaboration, reflection, empowerment, and technology.

The mission of the department is to prepare teachers, provide a wide range of in-service and graduate programs for school personnel and educators in non-school settings, and provide expertise in instructional methodology and technology. The department also engages in a variety of research and development activities related to teaching and learning and contributes to the liberal education program at UMD.

Fifth-Year Licensure

The College of Education and Human Service Professions (CEHSP) has developed 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 can be used also by persons who already hold a teaching license in one area and wish to add a second license, and by those who wish to upgrade a teaching minor to a teaching major.

Information about this program may be obtained from the Student Affairs Office for CEHSP. Applicants need to provide transcripts for their baccalaureate degrees. A formal assessment of their coursework is carried out

and a program of studies designed 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.

Degree Requirements

Degree requirements for the postbaccalaureate contract vary for each teacher licensure program. See separate listings of requirements under each licensure area.

The programs in special education prepare highly skilled and competent teachers to deliver quality services to children and youth who have disabling conditions.

The programs consist of selected core courses followed by specialization in one of the following special education fields:

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

Students may earn their EC/SE license as a) undergraduate students majoring in early childhood studies or b) postbaccalaureate students.

Students interested in an emotional behavioral disorders or LD license typically earn them as postbaccalaureate students, although undergraduates who are majoring in a teaching field may also begin work, make significant progress toward, or even complete these 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 possible.

Admission to Candidacy Requirements

Admission to special education is limited and is based on the following factors:

- A minimum overall GPA of 2.70 is required for consideration of an application. (Applicants to EC/SE should also consult requirements for early childhood studies.)
- Three letters of reference.
- Interviews with professionals in the field and program faculty (optional).
- Quality of written personal statement.

Application packets are available in the Department of Education. Completed applications and all supporting documents are due April 1 for fall semester admission. Check with the program coordinator for availability of admission openings at other times.

Applicants who do not meet minimum requirements are not admitted to candidacy. Applicants meeting the minimum requirements but not accepted during an admission period may be carried over into the pool for subsequent admission periods and have their applications reconsidered.

Maintenance Standards

Students who do not maintain satisfactory levels of progress (GPA of 2.70 in all program-required courses and acceptable performance in their field experiences) have their candidacy rescinded. Courses in which a passing grade of C+ or lower is received are not counted toward meeting licensure requirements.

Exit Criteria

To be recommended for licensure, students must have maintained satisfactory levels of performance (GPA of 2.70 in all program-required courses and acceptable performance in their field experiences), demonstrated satisfactory performance outcomes required by the program, and satisfactorily completed their student teaching practicum.

Personal Liability Insurance

Students must obtain personal liability insurance to protect them while working in public school classrooms. This usually is obtained most economically by student membership in Education-Minnesota. Applications are available in the department office.

Grievance Procedure

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

Fifth-Year Licensure—Early Childhood/Special Education

Persons who hold a baccalaureate degree can complete this program to obtain Minnesota licensure in early childhood/special education to provide special education services to children from birth through age six.

The fifth-year licensure—early childhood/special education program (50 credits) requires 12 credits in special education core courses, 17 credits in early childhood core courses, and 21 credits in early childhood/special education core courses.

Required Courses

Special Education Core (12)

- SpEd 5205—Assessment in Early Childhood Special Education (4)
- SpEd 5433—Foundations in Special Education (4)
- SpEd 5435—Parent and Professional Communication and Collaboration (4)

Early Childhood Core (17)

- ECh 4600—Student Teaching in Early Childhood/Primary (6)
- ECh 4610—Professional Issues Seminar in Early Childhood Education (2)
- ECh 5010—Programs for Education of Young Children: Birth-Age Eight (4)
- ECh 5020—Literacy, Literature, and Mathematics: Birth-Age Eight (5)

Early Childhood Special Education Core (21)

- CSD 3130—Language Development and Disorders (4)
- SpEd 5103—Infants and Toddlers with Special Needs (4)
- SpEd 5105—Young Children with Special Needs: Ages Three-Eight (4)
- SpEd 5600—Student Teaching (9)

Exit Standards

Students must successfully complete a student teaching experience and meet other competencies required for Minnesota teacher licensure.

Fifth-Year Licensure—Emotional Behavioral Disorders (EBD)

The fifth-year licensure—emotional behavioral disorders program (53 credits) requires 12 credits in special education core courses and 25 course credits in the emotional behavioral disorders specialization. In addition, candidates may need up to 16 credits in prerequisite courses in education.

Prerequisites (16)

- Students with elementary education backgrounds must complete one course or course components in adolescent growth and development and EdSe 5111—Secondary Curriculum and Administration (2).
- Students with secondary education backgrounds must complete one course or course components in child growth and development and EIED 5401—Elementary School Curriculum (2).
- EIED 3325—Language and Literacy (4)
- EIED 3355—Critical Thinking: Elementary Mathematics (4)
- Instructional technology course (3)
- Multicultural education course (3)

Emotional Behavioral Disorders Licensure Program

Special Education Core (12)

- SpEd 5204—Special Education Assessment: Mild Disabilities (4)
- SpEd 5433—Foundations in Special Education (4)
- SpEd 5435—Parent and Professional Communication and Collaboration (4)

Emotional Behavioral Disorders Specialization Courses (25)

- SpEd 5381—Behavior Management Strategies (4)
- SpEd 5382—Advanced Theory and Practice in Emotional/Behavior Disorders (4)
- SpEd 5452—Academic Interventions for Students with Disabilities (4)
- SpEd 5455—Instructional Strategies and Transitional Planning (4)
- SpEd 5600—Student Teaching (9)

Exit Standards

Students must successfully complete a student teaching experience and must meet other competencies required for Minnesota licensure.

Fifth-Year Licensure—English as a Second Language Teaching

The fifth-year licensure—English as a second language teaching program (28 credits) is required of students intending to seek teacher licensure in English as a second language (ESL) at the elementary and secondary levels. Students also must complete all other teacher licensure requirements, as well as two years or the equivalent of foreign language study.

Admission Requirements

See Admission Requirements description under Teacher Licensure Requirements.

Required Courses

- Anth 4628—Language and Culture
 - or Educ 5340—Interacting with Diverse Families (3)
 - Educ 5350—Literacy for English as a Second Language Learners (5)
 - EIED 4650—Student Teaching in Individual Subjects K-8 (3)
 - or EdSe 4600—Student Teaching (3)
 - Engl 5811—Introduction to Modern English (4)
 - Ling 1811*—Introduction to Language (3)
 - Ling 3101—Introduction to Phonology
 - or Ling 3102—Introduction to Syntax (3)
 - Ling 3195—Special Topics in Linguistics
 - or Psy 3661—Psychology of Language (3)
 - Ling 5802—Applied Linguistics (4)
- * Courses that may be used to fulfill UMD liberal education program requirements.

Language Requirements

Students must successfully complete two years (or the equivalent) of study of a language other than English.

Exit Standards

Students must successfully complete a student teaching experience and meet other competencies required for Minnesota teacher licensure.

Fifth-Year Licensure—Family Education-Early Childhood

Completion of the fifth-year licensure—family education—early childhood program (41 credits) in addition to a degree major in another field satisfies requirements of the Minnesota Board of Teaching for licensure as an early childhood family educator. This licensure prepares students to teach children and to lead parent education groups in the early childhood family education program.

Admission Requirements

Students must apply for admission to the family education—early childhood program and meet the admission requirements of a 2.70 GPA and successful completion of the Pre-Professional Skills Test required for Minnesota licensure.

Required Courses

- Comm 3210—Group Communication
- or Psy 3211—Group Dynamics (3)
- ECh 3010—Programs for Education of Young Children: Birth-Age Eight (4)
- ECh 3020—Literacy, Language, and Mathematics: Birth-Age Eight (5)
- ECh 3030—Inquiry Social Studies and Science Learning: Birth-Age Eight (5)
- ECh 4011—Parent Education (4)
- ECh 4600—Student Teaching Early Childhood/Primary (2)
- Educ 1000—Human Development (3)
- Educ 1100*—Human Diversity (3)
- Educ 4650—Student Teaching in Parent Education (3)
- Hlth 3202—Drug Education (2)
- Psy 2023*—Marriages and Families Worldwide (4)
- Psy 5251—Parenting (3)

* Courses that may be used to fulfill UMD liberal education program requirements.

Exit Standards

Students must successfully complete a student teaching experience and meet other competencies required for Minnesota licensure.

Fifth-Year Licensure—Family Education-Parent Education

Completion of the fifth-year licensure—family education—parent education program (25 credits) in addition to a degree major in another field satisfies requirements of the Minnesota Board of Teaching for licensure as a parent educator. This licensure prepares students to lead parent education groups in the early childhood family education program.

Admission Requirements

Students must apply for admission to the family education—parent education program and meet the admission requirements of a 2.70 GPA and successful completion of the Pre-Professional Skills Test.

Required Courses

- Comm 3210—Group Communication
- or Psy 3211—Group Dynamics (3)
- ECh 4011—Parent Education (4)
- Educ 1000—Human Development (3)
- Educ 1100*—Human Diversity (3)
- Educ 4650—Student Teaching in Parent Education (3)
- Hlth 3202—Drug Education (2)
- Psy 2023*—Marriages and Families Worldwide (4)
- Psy 5251—Parenting (3)

* Courses that may be used to fulfill UMD liberal education program requirements.

Exit Standards

Students must successfully complete a student teaching experience and meet other competencies required for Minnesota licensure.

Fifth-Year Licensure—Learning Disabilities (LD)

The fifth-year licensure—learning disabilities program (53 credits) requires 12 credits in special education core courses and 25 course credits in the LD specialization. In addition, candidates may need up to 16 credits in prerequisite courses in education.

Prerequisite Courses (16)

- Students with elementary education backgrounds must complete one course or course components in adolescent growth and development and EdSe 5111—Secondary Curriculum and Administration (2).
- Students with secondary education backgrounds must complete one course or course components in child growth and development and EIEd 5401—Elementary School Curriculum (2).
- EIEd 3325—Language and Literacy (4)
- EIEd 3355—Critical Thinking: Elementary Mathematics (4)
- Instructional technology course (3)
- Multicultural education course (3)

Learning Disabilities Licensure Program

Special Education Core (12)

SpEd 5204—Special Education Assessment: Mild Disabilities (4)

SpEd 5433—Foundations in Special Education (4)

SpEd 5435—Parent and Professional Communication and Collaboration (4)

LD Specialization (25)

SpEd 5351—Learning Disabilities Characteristics and Interventions (4)

SpEd 5381—Behavior Management Strategies (4)

SpEd 5452—Academic Interventions for Students with Disabilities (4)

SpEd 5455—Instructional Strategies and Transitional Planning (4)

SpEd 5600—Student Teaching (9)

Exit Standards

Students must successfully complete a student teaching experience and meet other competencies required for Minnesota teacher licensure.

Elementary/Middle School Teacher Education

Faculty: Hazareesingh, Keller, Munson, Peacock, Perun, Quintero, Rummel, Wohlhuter

B.A.S.

Successful completion of this program qualifies students to apply for state licensure to teach grades K-8 in any Minnesota elementary 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 minor.

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

Each student is responsible for obtaining a copy of the most recent elementary/middle school education upper division admissions packet, which is available in the office of the Department of Education. Students should be aware that the admission criteria include, but are not limited to, the following requirements:

- A cumulative overall GPA of at least 2.70 on coursework taken at UMD and elsewhere
- Documentation of at least 60 hours of work with groups of children in a supervised setting
- Three references, including at least one from a person who has observed the applicant working with groups of children
- Passing scores on all parts of the Pre-Professional Skills Test, an exam required for Minnesota teacher licensure
- Completion of required lower division courses

Special Needs

Students who need accommodations because of a disability or a special need should consult their program adviser and the Access Center.

Maintenance Standards

After students are admitted to the elementary education program, they must maintain appropriate performance standards. To continue as an elementary/middle school education major, students must make satisfactory academic progress (grades of C- or better in all required courses in the major and minor) and demonstrate acceptable teaching skills in their field experiences. Faculty review the progress of all elementary/middle school education majors each semester. Students who do not meet program standards may be dropped from the program.

Student Teaching

Application for student teaching must be made by the first Friday of the semester before student teaching. Applications are available in 120 Montague Hall. All incompletes must be cleared before filing the application. Students must have a minimum GPA of at least 2.70 to be eligible for student teaching. Student are responsible for scheduling an interview to document fulfillment of all prerequisites, including completion of all elementary major courses except for Educ 4500 and Eled 4600, which are taken concurrently.

Assignment to schools for the professional semester is made by the coordinator of field experiences in consultation with administrators and teachers of Duluth and area schools. To ensure adequate student teaching supervision, the number of students accepted each semester is determined by the program faculty. As a result, it may be necessary for some students to accept a second choice of time period in which to complete the professional semester. Student placement is determined by availability of sites and supervisors.

Exit Standards

Before being recommended for licensure, students must demonstrate satisfactory performance outcomes required by the program, have grades of C- or better in all required courses in the major and in the minor, and have acceptable ratings from both the classroom and University supervisors for all field experiences, including student teaching performance.

Successful completion of this program indicates a student has completed a nationally accredited and state approved licensure program. The student is qualified to apply for a K-8 teaching license in the state of Minnesota. Students planning to teach in other states should be aware that licensure requirements may vary somewhat from state to state.

Degree Requirements

Requirements for the B.A.S. in elementary/middle school education include:

- UMD liberal education program requirement—specific course requirements in some categories, courses indicated by *, as follows:

Category 1: Comp 1120*—College Writing (3 credits)

Category 2: At least one course

Category 3: Comm 1112*—Public Speaking (3 credits) is recommended (elementary/middle school education majors must complete a course in communications in this category)

Category 4: At least one course

Category 5: At least one course

Category 6: At least one course (elementary/middle school education majors must complete a course in geography in this category or in Category 8)

Category 7: Educ 1101*—Education in Modern Society (3 credits) is required of elementary/middle school education majors (elementary education students also must complete a course in history)

Category 8: Educ 1100*—Human Diversity (3 credits) is required of elementary/ middle school education majors

Category 9: At least one course (elementary/middle school education majors must complete a course in

English literature: Engl 1001*—Great American Authors [3 credits], Engl 1101*—Literature Appreciation [3 credits], Engl 1575*—20th-Century Literature [3 credits], or Engl 1907*—Introduction to Literature [3 credits])

Category 10: Art 1002*—Introduction to Art (3 credits)

- Advanced writing requirement: Comp 3140—Advanced Writing: Human Services (3 credits)
- Major requirements (76 credits)
- Students seeking a K-8 license must complete an approved academic minor (22-32 credits) in order to meet Minnesota teacher licensure requirements. Minors that meet the state licensure requirements are:
 - Teaching social science (elementary school) (26 credits)
 - Teaching English (elementary/middle school) (23 credits)
 - Teaching science (elementary/middle school) (22 credits)
 - Teaching French (32 credits)
 - Teaching German (32 credits)
 - Teaching mathematics (29-30 credits)
 - Teaching Spanish (31 credits)

Requirements for each of the above minors are listed in this college section under their own titles.

Required Courses

Lower Division (13)

Educ 1000—Human Development (3)

EIEd 1010—Introduction to Elementary Education (3)

Hlth 1600—Basic First Aid (2)

or documented current Red Cross certification

Math 1141—Mathematics for Elementary Education (4)

Mu 1601—Music Fundamentals (1)

Depending on their math placement test score, students may be required to complete prerequisite courses in mathematics.

Upper Division (63)

Courses taken before the block courses (16)

Art 3810—Art in Elementary Education (2)

ECh 3006—Early School Years (2)

Educ 3412—The Computer in Education (4)

EdSe 5120—Philosophy and Organization of Middle Schools (2)

Hlth 5161—School Health Programs: Early Childhood Through Middle School (2)

Mu 3601—Elementary School Music Teaching (2)

PE 3126—Elementary School Physical Education (2)

Block I—(must all be taken concurrently) (16)

EIEd 3113—Learning Environments and Diverse Learning Communities (4)

EIEd 3325—Language and Literacy (4)

EIEd 3331—Children’s Literature and Integrated Creative Arts (4)

EIEd 3355—Critical Thinking: Elementary Mathematics (4)

Block II—(must all be taken concurrently) (16)

EIEd 4344—Teaching Science and Environmental Education (4)

EIEd 4345—Instructional Strategies, Assessment, and Management (4)

EIEd 4366—Teaching Social Studies and Environmental Education (4)

SpEd 5310—Adapting for Diverse Learners in General Education Settings (4)

Block III—(must all be taken concurrently) (15)

Educ 4500—Professional Issues in Teaching (3)

EIEd 4600—Student Teaching (12)

Exit Standards

Students must successfully complete a semester of student teaching experience and must demonstrate other competencies required for Minnesota teacher licensure.

Exercise Science

Health, Physical Education, and Recreation

B.A.S.

The bachelor of applied science (B.A.S.) in exercise science prepares students to move into postgraduate professional programs and occupations in which exercise is a primary or secondary focus. The curriculum offers an opportunity for development of knowledge, skills, abilities, and proficiencies required in such endeavors. Students in this program typically intend to pursue advanced degrees and/or certifications that are required in order to practice professionally in either clinical or nonclinical settings. The curriculum includes (in addition to the UMD liberal education requirements) a core of courses in the basic and applied sciences, the exercise sciences, and related disciplines, and a culminating internship or research experience.

Admission Requirements

Refer to CEHSP admission requirements. Students seeking to transfer from outside of UMD or from other UMD academic units must have a minimum GPA of 2.00. All transferring students must meet with the exercise science faculty coordinator before transfer into the major can be approved. Procedural information is available from the CEHSP Student Affairs Office.

Degree Candidacy

Students must apply for degree candidacy (upper division) after completing 45 hours of coursework in designated courses and/or liberal education requirements. Courses required to complete degree requirements are determined in consultation with the academic adviser when application for candidacy is made.

Academic Progress

A GPA of 2.50 overall and in courses required for the major is required for degree candidacy (upper division) and to graduate. The progress of all students who have accumulated more than 30 hours with less than a 2.50 GPA is reviewed by the Department Scholastic Committee at the end of each semester. Students with a GPA for the semester below the value required to bring their GPA to the graduation standard by the time 120 credits are accumulated are placed on a notification list. Students whose GPA falls below for a second semester are placed on a warning list. Students whose GPA falls below for a third semester may be dismissed from the major, as it is highly unlikely they will meet the standard for graduation from this program. Note that these semesters do not need to be consecutive, as the GPA is cumulative. Each semester the GPA falls below the required value, the more difficult it is to raise the GPA to 2.50 with the remaining program credits.

Maintenance Standards

To continue as an exercise science major, students must make satisfactory academic progress; demonstrate acceptable professional performance in their classroom, laboratory, research, and internship experiences; and demonstrate commitment to health-related physical fitness.

Core Degree Requirements

Requirements for the B.A.S. in exercise science (120 credits) include:

- UMD liberal education program requirement—courses listed within the major or minor indicated by * may be used to fulfill this requirement
- Advanced writing requirement: Comp 3xxx (3 credits)
- 2.50 GPA both overall and in major courses

Required Core Courses (all concentrations)

PE 3470—Sports Nutrition (3)

PEP 3020—Motor Learning (2)

PEP 3030—Human Biomechanics (3)

PEP 3040—Exercise Physiology (3)

PEP 3400—Exercise Testing and Prescription (2)

PEP 4996—Internship (3-12)

or PEP 4991—Independent Study (1-4)

Required Courses From Other Programs

Biol 1011*—General Biology I (5)

Chem 1102*—Aspects of Chemistry (4)

Hlth 1470*—Human Nutrition (3)

Hlth 2030—Applied Human Anatomy (4)

Hlth 2040—Principles of Human Physiology (4)

Math 1160*—Finite Mathematics and Introduction to Calculus (5)

Phys 1001*—Introduction to Physics I (5)

Psy 1003*—General Psychology (4)

Note: Students may substitute a higher numbered course with the same designator for this requirement, with approval of their academic adviser. (For example, Chem 1113*—Introduction to General, Organic, and Biological Chemistry I could be substituted for Chem 1102*—Aspects of Chemistry.)

Concentration

Students must select one of the four concentrations described below. Students then choose courses with the PEP or related designators to fulfill the degree credit and content requirements. These courses must be approved in advance by the student's academic adviser and/or by the exercise science undergraduate program coordinator.

Exit Standards

Students are required to complete an internship (PEP 4996) or senior project (PEP 4991—Independent Study) to meet degree requirements. The nature and amount of the work is dependent on the concentration and is decided in consultation with the academic adviser and/or the exercise science undergraduate program coordinator.

Adult Fitness Concentration

The bachelor of applied science (B.A.S.) in exercise science with a concentration in adult 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.

Degree Requirements

- Core degree course requirements
- UMD liberal education and composition requirements
- Final project requirement

Adult Fitness Concentration—Required

Courses: Students select, with approval by the academic adviser, a variety of courses with PEP and related designators. These courses, when

combined with all other degree and University requirements, must total at least 120 credits. In general, the concentration consists of courses with the PEP, Hlth, and Psy designators.

Athletic Training Concentration

The bachelor of applied science (B.A.S.) in exercise science with a concentration in athletic training prepares students for taking the National Athletic Trainer's Association (NATA) certification exam and/or for admission to graduate programs in athletic training. The required curriculum includes a liberal education background, a core of basic and applied sciences, athletic training skills and procedures, courses in the exercise science subdisciplines, and an internship in a clinical and/or sport setting. This area of study is primarily for students who intend to pursue certification or advanced degrees in athletic training.

Degree Requirements

- Core degree course requirements
- UMD liberal education and composition requirements
- Final project requirement

Athletic Training Concentration—Required

Courses: Students select, with approval by the academic adviser, a variety of courses with PEP 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 PEP designator.

Exercise Science Concentration

The bachelor of applied science (B.A.S.) in exercise science with a concentration in exercise 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 athletic training and cardiac rehabilitation. 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 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.

Degree Requirements

- Core degree course requirements
- UMD liberal education and composition requirements
- Final project requirement

Exercise Science Concentration—Required Courses: Students select, with approval by the academic adviser, a variety of courses with PEP 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 PEP, Anat, Biol, Chem, Engr, Phys, and Phsl designators.

Special Area of Interest Concentration

The bachelor of applied science (B.A.S.) 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 adult fitness, athletic training, and exercise science. They are subject to approval by the department Academic Affairs Committee.

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.

Degree Requirements

- Core degree course requirements
- UMD liberal education and composition requirements
- Final project requirement

Special Area of Interest Concentration—Required Courses: Students select, with approval by the academic adviser and department academic affairs committee, a variety of courses with PEP 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 PEP, Anat, Biol, Chem, Engr, Hlth, Phys, Psy, and Soc designators.

Health, Physical Education, and Recreation (HPER)

Professors: Eugene S. Ley; *Associate Professors:* John R. Keener, Georgia L. Keeney, Edmond F. Lundstrom, Mark E. Nierengarten (*department head*); *Assistant Professors:* Donald T. Collins, Donald P. Roach

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 quality instruction to support the education and professional development of undergraduate students.

The department offers degrees in exercise science, health education, physical education, and recreation. 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 profession. Programs, majors, and certifications are described in alphabetical order in this section of the catalog under these headings: Coaching Minor, Exercise Science (B.A.S.), Health Education (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.

Health Education (Hlth)

Health, Physical Education, and Recreation

B.A.S.

The bachelor of applied science (B.A.S.) 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, therefore, prepares students to assess, plan, implement, deliver, administer, and evaluate health education programs that promote health and prevent disease.

Health Education—Community Health

Admission Requirements

The concentration in community health requires 89-92 credits. All students must apply for admission to upper division after completing the lower division program listed. Students should apply for upper division during the semester in which 45 credits are completed. Students seeking to transfer from other colleges or academic units must have a minimum GPA of 2.00 to transfer into the college. These students should contact the CEHSP Student Affairs Office for procedural information. Students who have completed part or all of an approved program at another institution should contact the faculty coordinator or adviser to find out to what extend their courses meet UMD requirements.

Academic Progress

A GPA of 2.50 overall and in courses required for the major is required for admission to degree candidacy (upper division) and to graduate. The progress of all students who have accumulated more than 30 hours with less than a 2.50 GPA is reviewed by the department scholastic committee at the end of each semester. Students with a GPA for the semester below the value required to bring their GPA to the graduation standard by the time 120 credits are accumulated are placed on a notification list. Students whose GPA falls below for a second semester are placed on a warning list. Students whose GPA falls below for a third semester may be dismissed from the major, as it is highly unlikely they will meet the standard for graduation from this program. Note that these semesters do not need to be consecutive, as the GPA is cumulative. Each semester the GPA falls below the required value, the more difficult it is to raise the GPA to 2.50 with the remaining program credits.

Maintenance Standards

To continue as a health education—community health major, students must make satisfactory academic progress and demonstrate acceptable professional performance in their courses and field experiences.

Degree Requirements

Requirements for the B.A.S. in health education—community health include:

- Liberal education requirements
- 2.50 GPA both overall and in major courses
- Advanced writing requirement: Comp 3140—Advanced Writing: Human Services (3 credits) *or* other approved advanced composition course

- Major requirements (89-92 credits):
Lower and upper division courses (41 credits)—courses are listed in the *Class Schedule* under Health (Hlth) and Health, Physical Education, and Recreation (HPER), courses required from other programs (27 credits)

The community health concentration (21-24 credits) addresses seven entry-level competencies identified by various national health education organizations: assessing individual and community need for health education; planning effective health education programs; implementing health education programs; evaluating the effectiveness of health education programs; coordinating the provision of health education services; acting as a resource person in health education and community health; and communicating health education needs, concerns, and resources. Students completing this concentration are prepared to take the Certified Health Education Specialist (CHES) exam.

Required Courses

Lower Division (18)

- Hlth 1000—Developing Wellness (3)
- Hlth 1104—Health Science Terminology (3)
- Hlth 1650—CPR (1)
- Hlth 1700—Advanced First Aid (3)
- Hlth 2030—Applied Human Anatomy (4)
- Hlth 2040—Principles of Human Physiology (4)

Upper Division (23)

- Hlth 3101—Community Health (3)
- Hlth 3115—Consumer Health Education (3)
- Hlth 3117—Principles of Sex Education (3)
- Hlth 3202—Drug Education (2)
- Hlth 3301—Foundations of Health Education (3)
- Hlth 3302—Health Education Methods and Materials (3)
- HPER 3000—Organization and Administration of Health, Physical Education, and Recreation (3)
- HPER 3200—Research and Evaluation in Health and Human Services (3)

Community Health Concentration (21-24)

- Hlth 3450—Health Promotion Programming (3)
- Hlth 3500—Environmental Health (3)
- Hlth 4996—Internship in Health Education (9-12)
- Electives from health or other approved areas, numbered 3000 or above (6)

Required Courses From Other Programs (27)

All courses may be used to fulfill UMD liberal education program requirements.

- Biol 1001—Biology and Society (4)
- Chem 1102—Aspects of Chemistry (3)
- Comm 1112—Public Speaking (3)
- Educ 1100—Human Diversity (3)

Hlth 1470—Human Nutrition (3)

Psy 1003—General Psychology (4)

Psy 2021—Developmental Psychology (4)

Soc 1101—Introduction to Sociology (3)

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 9-12 credits.

Health Education—School Health

Admission Requirements

The concentration in school health requires 100 credits. All students must apply for admission to upper division after completing the lower division program listed. Students should apply for upper division during the semester in which 45 credits are completed. Students seeking to transfer from other colleges or academic units must have a minimum GPA of 2.00 to transfer into the college. These students should contact the CEHSP Student Affairs Office for procedural information.

Academic Progress

A GPA of 2.50 overall and in courses required for the major is required for admission to degree candidacy (upper division) in compliance with NCATE (National Council for Accreditation of Teacher Education) standards and for graduation. The progress of all students who have accumulated more than 30 hours with less than a 2.50 GPA is reviewed by the department scholastic committee at the end of each semester. Students with a GPA for the semester below the value required to bring their GPA to the graduation standard by the time 120 credits are accumulated are placed on a notification list. Students whose GPA falls below for a second semester are placed on a warning list. Students whose GPA falls below

for a third semester may be dismissed from the major, as it is highly unlikely they will meet the standard for graduation from this program. Note that these semesters do not need to be consecutive, as the GPA is cumulative. Each semester the GPA falls below the required value, the more difficult it is to raise the GPA to 2.50 with the remaining program credits.

Maintenance Standards

To continue as a health education—school health major, students must make satisfactory academic progress and demonstrate acceptable professional performance in their courses and field experiences.

Personal Liability Insurance

Students must obtain personal liability insurance to protect them while working in public school situations. This usually is obtained most economically by student membership in the Minnesota Education Association. Applications are available in the department office.

Exit Standards

The B.A.S. in health education—school health is offered in conjunction with the Department of Education. Exit standards are published by the Department of Education under Secondary/K-12 Teacher Licensure Requirements.

Degree Requirements

Requirements for the B.A.S. in health education—school health include:

- Liberal education requirements
- Advanced writing requirement: Comp 3140—Advanced Writing: Human Services (3 credits) *or* other approved advanced composition course
- 2.50 GPA both overall and in major courses
- Major requirements (100 credits):
Lower and upper division courses (71 credits)—courses are listed in the *Class Schedule* under Health (Hlth) and Health, Physical Education, and Recreation (HPER), courses required from other programs (30 credits)

The school health concentration (29 credits) 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 the department.

Required Courses**Lower Division (18)**

- Hlth 1000—Developing Wellness (3)
- Hlth 1104—Health Science Terminology (3)
- Hlth 1650—CPR (1)
- Hlth 1700—Advanced First Aid (3)
- Hlth 2030—Applied Human Anatomy (4)
- Hlth 2040—Principles of Human Physiology (4)

Upper Division (23)

- Hlth 3101—Community Health (3)
- Hlth 3115—Consumer Health Education (3)
- Hlth 3117—Principles of Sex Education (3)
- Hlth 3202—Drug Education (2)
- Hlth 3301—Foundations of Health Education (3)
- Hlth 3302—Health Education Methods and Materials (3)
- HPER 3000—Organization and Administration of Health, Physical Education, and Recreation (3)
- HPER 3200—Research and Evaluation in Health and Human Services (3)

School Health Education Concentration (29)

- EdSe 3204—General Instructional Methods (3)
- EdSe 3205—Apprenticeship: Middle School (2)
- EdSe 3206—Apprenticeship: Secondary School (2)
- EdSe 4501—Educational Psychology (3)
- EdSe 4600—Student Teaching (12)
- Educ 4381—Teaching American Indian Students (2)
- Educ 4500—Professional Issues in Teaching (3)
- Hlth 5161—School Health Programs: Early Childhood Through Middle School (2)

Required Courses From Other Programs (30)

All courses may be used to fulfill UMD liberal education program requirements.

- Biol 1001—Biology and Society (4)
- Chem 1102—Aspects of Chemistry (3)
- Comm 1112—Public Speaking (3)
- Educ 1100—Human Diversity (3)
- Educ 1101—Education in Modern Society (3)
- Hlth 1470—Human Nutrition (3)
- Psy 1003—General Psychology (4)
- Psy 2021—Developmental Psychology (4)
- Soc 1101—Introduction to Sociology (3)

Exit Standards

Students must complete a full semester of student teaching (EdSe 4600) in a public school setting at the middle or secondary level. Students register concurrently for Educ 4500—Professional Issues in Teaching.

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

Minor Requirements

The minor in health education (44 credits) is for students majoring in other human service professions, interested in learning more about human health and disease prevention, or seeking additional certification for teaching licensure.

Required Courses**Lower Division (26)**

- Hlth 1000—Developing Wellness (3)
- Hlth 1470*—Human Nutrition (3)
- Hlth 1650—CPR (1)
- Hlth 1700—Advanced First Aid (3)
- Hlth 2030—Applied Human Anatomy (4)
- Hlth 2040—Principles of Human Physiology (4)
- Psy 1003*—General Psychology (4)
- Psy 2021*—Developmental Psychology (4)

Upper Division (18)

- Hlth 3101—Community Health (3)
- Hlth 3115—Consumer Health Education (3)
- Hlth 3117—Principles of Sex Education (3)
- Hlth 3301—Foundations of Health Education (3)
- Hlth 3302—Health Education Methods and Materials (3)
- HPER 3200—Research and Evaluation in Health and Human Services (3)

**Courses that may be used to fulfill UMD liberal education program requirements.*

Physical Education**Health, Physical Education, and Recreation**

Faculty Coordinator: Mark Nierengarten

B.A.S.

The bachelor of applied science (B.A.S.) in physical education is for students preparing for teacher licensure in physical education (K-12). The major meets Minnesota Board of Teaching licensure requirements as well as the program standards of the National Council for the Accreditation of Teacher Education (NCATE) for teaching physical education in grades K-12 in Minnesota.

Academic Progress

A GPA of 2.50 overall and in courses required for the major is required for admission to degree candidacy (upper division) in compliance with NCATE standards and for graduation. The progress of all students who have accumulated more than 30 hours with less than a 2.50 GPA is reviewed by the department scholastic committee at the end of each semester. Students with a GPA for the semester below the value required to bring their GPA to the graduation standard by the time 120 credits are accumulated are placed on a notification

list. Students whose GPA falls below for a second semester are placed on a warning list. Students whose GPA falls below for a third semester may be dismissed from the major, as it is highly unlikely they will meet the standard for graduation from this program. Note that these semesters do not need to be consecutive, as the GPA is cumulative. Each semester the GPA falls below the required value, the more difficult it is to raise the GPA to 2.50 with the remaining program credits.

Maintenance Standards

To continue as a physical education major, students must make satisfactory academic progress, demonstrate acceptable professional performance in their courses and field experiences, and demonstrate commitment to department guidelines for health-related fitness.

Personal Liability Insurance

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 2071, 3731, and 3970. This usually is obtained most economically by student membership in the Minnesota Education Association. Applications are available in the department office.

Transfer Students

Students who have completed part or all of an approved program at another institution should contact the department head to find out to what extent their courses meet UMD requirements.

Skill Competency

Students who enroll in Physical Education Professional (PEP) teaching skill courses must demonstrate entrance skill competencies for the course. Descriptions of the entrance skills are available in the physical education office and should be reviewed before enrollment.

Exit Standards

The B.A.S. in physical education is offered in conjunction with the Department of Education, which publishes exit standards under “Secondary/K-12 Teacher Licensure Requirements.”

Degree Requirements

Requirements for the B.A.S. (130 credits) in physical education include:

- 25 lower division credits within the major, indicated by *, contribute to the University’s liberal education requirement of 35 credits

- Advanced writing requirement: Comp 3140—Advanced Writing: Human Services (3 credits)
- A 2.50 GPA both overall and within major courses
- Major requirements (92):
Lower and upper division courses

The department believes that a comprehensive teacher preparation program must develop the knowledge base of prospective teachers. This objective is achieved through exposing students to a properly sequenced physical education teacher preparation program. Courses within the major reflect the guidelines of the National Association for Sports and Physical Education (NASPE) developed for NCATE accreditation. The majority of the courses listed in the program have the prefix PEP, Physical Education Professional. These courses are open only to majors. This allows the faculty to focus on the specific needs and learning objectives of physical education majors.

Teacher preparation programs also must ensure that graduates can demonstrate proficiency in a wide variety of motor skills inherent within the physical education curriculum. Majors must take PEP skill courses. Students who do not have sufficient skill to participate in a PEP skill course will be asked to enroll in a physical education (PE) skill course addressing the same content before enrolling in the PEP course.

Finally, teacher preparation programs must instill in their graduates an ethical set of values regarding the education of atypical learners as well as learners from a broad range of multicultural backgrounds. These values are taught in courses within the major as well as in courses required by the Department of Education. More importantly, these values also are demonstrated by departmental faculty.

Required Courses

Lower Division (32)

- Hlth 1000—Developing Wellness (3)
- Hlth 1600—Basic First Aid (2)
- Hlth 2030—Applied Human Anatomy (4)
- Hlth 2040—Principals of Human Physiology (4)
- PE 2240—Lifeguarding Today (1)
- PE 2244—Water Safety Instructor (2)
- PEP 1000—Teaching Elementary Games and Rhythms (1)
- PEP 1002—Teaching Stunts: Tumbling and Apparatus (1)
- PEP 1400—Teaching Tennis and Track (1)
- PEP 1300—Teaching Ballroom Dance
or PEP 1302—Teaching Folk Dance
or PEP 1304—Teaching Square Dance (1)

- PEP 1500—Teaching Cross Country Skiing
 or PEP 1504—Teaching Skating (1)
 PEP 1600—Teaching Physical Fitness and Weight Training (1)
 PEP 1700—Teaching Soccer and Softball (1)
 PEP 1710—Teaching Volleyball and Basketball (1)
 PEP 2000—Foundations of Physical Education (3)
 PEP 2070—Elementary Physical Education Methods and Development (4)
 PEP 2071—Clinical Experience: Elementary (1)

Upper Division (28)

- CC 3116—Care and Prevention of Sport Injuries (3)
 Hlth 3202—Drug Education (2)
 HPER 3000—Organization and Administration of Health, Physical Education, and Recreation (3)
 PEP 3010—Adapted Physical Education (2)
 PEP 3020—Motor Learning (2)
 PEP 3030—Human Biomechanics (3)
 PEP 3040—Exercise Physiology (3)
 PEP 3700—Assessment Strategies in School Physical Education (4)
 PEP 3730—Secondary Physical Education Methods and Curriculum (4)
 PEP 3731—Clinical Experience: Secondary (1)
 PEP 3970—Supervised Teaching: College (1)

Required Courses From Other Programs

Lower Division (25)

- Biol 1011*—General Biology (5)
 Chem 1102*—Aspects of Chemistry (3)
 Comp 1120*—College Writing (3)
 Educ 1101*—Education and Modern Society (3)
 Psy 1003*—General Psychology (4)
 Psy 2021*—Developmental Psychology (4)
 Soc 1101*—Introduction to Sociology (3)

Upper Division (32)

- EdSe 3205—Apprenticeship: Middle School (2)
 EdSe 3206—Apprenticeship: Secondary School (2)
 EdSe 4100—Human Relations in Classrooms (2)
 EdSe 4501—Educational Psychology (3)
 EdSe 4600—Student Teaching (6)
 EdSe 5120—Philosophy and Organization of Middle Schools (2)
 Educ 3412—The Computer in Education (4)
 Educ 4381—Teaching American Indian Students (2)
 Educ 4500—Professional Issues in Teaching (3)
 EIEd 4600—Student Teaching (6)

* Courses that may be used to fulfill UMD liberal education program requirements.

Approved Substitution

- Biol 1761—Human Anatomy (4) for Hlth 2030—Applied Human Anatomy (4)

Exit Standards

Students must complete a full semester of student teaching in a public school setting. Student teaching is divided equally between elementary (EIEd 4600) and secondary (EdSe 4600) settings. Students register concurrently for Educ 4500—Professional Issues (3) 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.

Psychology (Psy)

Psychology and Mental Health

B.A.S.

Professors: Ajit K. Das, Randall A. Gordon, LeRoy A. McClure, Uwe H. Stuecher; *Associate Professors:* Helen M. Doane, Aydin Durgunoglu, Eugene E. Grossman (*department head*), Jane C. Hovland, Robert L. Lloyd, Kristelle E. Miller, Janine Watts, Sandra J. Woolum; *Assistant Professors:* Kamal S. Gindy, Mark Olson, Donald Streufert; *Instructor:* Paula Pedersen-Randall

The bachelor of applied science (B.A.S.) in psychology provides students with a firm grounding in the methods, history, and content areas of the discipline. Graduates 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 program 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. All students are expected to complete a faculty-supervised independent research project during the design and methodology courses of the core curriculum, applying their methodology training to a topic of their choice. In addition, the core requires some exposure to the natural science, social science, and applied science aspects of the discipline. Students also have the opportunity to focus their study toward either graduate training or paraprofessional positions through their selection of elective courses, independent studies, or field placements in a variety of content areas. Students should consult with faculty advisers to select appropriate elective courses to meet their career goals.

Admission Requirements

Students who wish to pursue the B.A.S. degree in psychology may declare the program as their major at any time providing their cumulative GPA is at least 2.00. Students may declare their

intent to pursue the degree at the CEHSP's Student Affairs Office. Progress toward completion of degree requirements is continuously tracked by the UMD Registrar's APAS system.

Honors Requirements

Senior psychology majors with a GPA of at least 3.25 in psychology and 3.00 overall are eligible for departmental honors. Honors work may be completed as an individual honors research project (Psy 3998), as an individual honors application project under the direction of an adviser selected by the student (Psy 3997), by completing an honors seminar (Psy 3985), by completing a successful UROP project, or by receiving a GPA of 3.80 or better in all psychology courses. Eligible students are urged to consult with their adviser or a psychology department faculty member on how they wish to pursue departmental honors before the end of their junior year.

Degree Requirements

Requirements for the B.A.S. (120 credits) in psychology include:

- UMD liberal education program requirement—courses listed within the major or minor indicated by * may be used to fulfill this requirement. However, only courses from outside the Psy prefix may be used. Biol 1001*—Biology and Society (4 credits) must be used to fulfill Category IV.
- Advanced writing requirement: Comp 3xxx (3 credits)
- Major requirements (59 credits): Lower and upper division core (35-39 credits), electives in Psy 3xxx or higher (20-24 credits), 20 credits of Psy 3xxx or higher applied to the B.A.S. must be taken in residence at UMD
- Elective courses (5 credits)
- Either a minor program of the student's choice or 18 additional upper division credits outside the major

Required Courses

Foundation Core (19)

- Psy 1003*—General Psychology (4)
- Psy 3020—Statistical Methods (4)
- Psy 3021—Experimental Design and Methodology (4)
- Psy 3022—Applied Methods and Measurement (4)
- Psy 3081—History and Systems of Psychology (3)

Natural Science Core—at least one course (4)

- Psy 3061—Physiological Psychology (4)
- Psy 3611—Learning and Cognition (4)
- Psy 3691—Sensation and Perception (4)

Social Science Core—at least three courses (9-12)

- Psy 2021*—Developmental Psychology (4)
- Psy 2223*—Gender in Society (4)
- Psy 3111—Theories of Personality (3)
- Psy 3121—Abnormal Psychology (4)
- Psy 3201—Social Psychology (3)
- Psy 3211—Group Dynamics (3)

Applied Science Core—at least one course (3-4)

- Psy 3445—Transpersonal Psychology (3)
- Psy 3524—Basic Helping Skills (4)
- Psy 3601—Psychology of Personal Development (3)
- Psy 3613—Behavior Modification (3)
- Psychology Electives—Psy 3xxx or higher (20-24)

* Courses that may be used to fulfill UMD liberal education program requirements.

Exit Standards

Before graduation, all students are required to complete a standardized, objective achievement test of their knowledge of psychology. Test results are treated confidentially by the department and are used to evaluate the effectiveness of the B.A.S. program, not the competencies of the students.

Minor Requirements

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. Students must complete 18 credits, including:

- Psy 1003*—General Psychology (4)
- Psy 2021*—Developmental Psychology (4)
- Psy electives 3xxx or higher (10)

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

Recreation

Health, Physical Education, and Recreation

Faculty Coordinator: Kenneth L. Gilbertson

B.A.S.

The bachelor of applied science (B.A.S.) in recreation prepares students for professional careers in one of two career tracks, or "concentrations." The first concentration, outdoor education, trains students to work in nonformal outdoor education settings, such as nature centers; city, state, or national parks; and college outdoor programs, or for commercial agencies. The second concentration,

recreational sports programming, provides students with knowledge and skills to work in settings such as city park departments, fitness centers, health clubs, and college recreational sports departments. Core components include program planning and delivery, education methods, physical skills development, management, facilities coordination, evaluation, and principles of recreation. The recreation major is a four-year curriculum including one full semester of field placement in a recreational sport or outdoor educational setting. No minor is required.

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

Admission Requirements

Admission is by application to the Department of Health, Physical Education, and Recreation (HPER). Students are encouraged to apply by the end of their freshman year. Admission to the program requires a 2.50 overall GPA. Enrollment in the senior internship requires an overall GPA of 2.50. The program description includes all requirements for the B.A.S. degree.

Recreation—Outdoor Education

Degree Requirements

Requirements for the B.A.S. in recreation—outdoor education concentration include:

- Liberal education requirements
- Advanced writing requirement: Comp 3140—Advanced Writing: Human Services or Comp 3160—Advanced Writing: Social Sciences (3 credits)
- GPA of 2.50 both overall and in major courses
- Major requirements:
Lower and upper division courses, including the outdoor education concentration (103 credits), and coursework in education methods, program delivery, evaluation, theories, skills, and principles of recreation management provide the basis for the major

Required Courses

Lower Division Core (25)

Hlth 1620—Wilderness Emergency Care (3)
or Hlth 1700—Advanced First Aid (3)
Hlth 2030—Applied Human Anatomy (4)
Hlth 2040—Principles of Human Physiology (4)
PE 1xxx—Electives (2)

PEP 1xxx—Electives (4)

Rec 1000—Introduction to Recreation (4)

Rec 1203—Outdoor Skills I (2)

Rec 1204—Outdoor Skills II (2)

Upper Division Core (28)

HPER 3100—Risk Management (2)

HPER 3200—Program Evaluation (3)

Rec 3300—Recreation Programming (3)

Rec 3310—Recreation Leadership (2)

Rec 3320—Recreational Sports (3)

Rec 4315—Recreation Management (3)

Rec 4996—Recreation Internship (12)

Outdoor Education Concentration (6)

Rec 3341—Field Interpretive Techniques I (3)

Rec 3342—Field Interpretive Techniques II (3)

Required Courses From Other Programs

Biol 1011*—General Biology I (5)

Comm 1112*—Public Speaking (3)

Geog 2306*—Environmental Conservation (3)

Psy 1003*—General Psychology (4)

Outdoor Education Concentration (6)

Educ 4163—Outdoor Education Methods (2)

Psy 3524—Basic Helping Skills (4)

Electives

Approved electives (23):

Biol xxxx—field biology courses

Educ 4601—Wilderness Philosophy (3)

Educ 5165—Theories and Models in Outdoor Education (2)

ES 5001—Environmental Studies Seminar I (4)

Geol 3xxx or 5xxx—field geology courses

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

PE 3470—Principles of Sports Nutrition (3)

PEP 3020—Motor Learning (2)

PEP 3030—Human Biomechanics (3)

PEP 3040—Physiology of Exercise (3)

Psy 3211—Group Dynamics (3)

Rec 3327—Life Fitness Programs and Events Management (3)

Rec 4991—Independent Study (1-4)

Rec 4992—Readings in Recreation/Leisure (1-4)

Rec 4998—Recreation Seminar (1-3)

* Courses that may be used to fulfill UMD liberal education program requirements.

Exit Standards

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.

Minor Requirements

Acceptance into the recreation minor—outdoor education concentration (23 credits) requires a minimum GPA of 2.50, plus application to the Department of Health, Physical Education, and Recreation (HPER).

Required Courses

Lower Division Core (12)

Hlth 1620—Wilderness Emergency Care (3)
 or Hlth 1700—Advanced First Aid (3)
 PEP 1507—Teaching Outdoor Skills (1)
 PEP 1xxx electives (4)
 Rec 1000—Introduction to Recreation (4)

Upper Division Core (11)

Rec 3300—Recreation Programming (3)
 Rec 4997—Recreation Practicum (2)
 HPER 3200—Program Evaluation (3)
 Approved upper division Rec electives (3)

Recreation—Recreational Sports Programming

Degree Requirements

Requirements for the B.A.S. in recreation-recreational sports programming concentration include:

- Liberal education requirements
- Advanced writing requirements: Comp 3140—Advanced Writing: Human Services or Comp 3160—Advanced Writing: Social Sciences (3 credits)
- A GPA of 2.50 both overall and in major courses
- Major requirements (101 credits): Lower and upper division courses including a concentration in recreational sports programming, and coursework in education methods, program delivery, evaluation, theories, skills, and principles of recreation management provide the basis for the major.

Required Courses

Lower Division Core (23)

Hlth 1620—Wilderness Emergency Care (3)
 or Hlth 1700—Advanced First Aid (3)
 Hlth 2030—Applied Human Anatomy (4)
 Hlth 2040—Principles of Human Physiology (4)
 PE 1xxx—Electives (2)
 PEP 1xxx—Electives (4)
 Rec 1000—Introduction to Recreation (4)
 Rec 1203—Outdoor Skills I (2)

Upper Division Core (30)

HPER 3100—Risk Management (2)
 HPER 3200—Program Evaluation (3)
 PEP 3020—Motor Learning (2)
 PEP 3500—Facilities Management (3)
 Rec 3300—Recreation Programming (3)

Rec 3310—Recreation Leadership (2)

Rec 4315—Recreation Management (3)

Rec 4996—Recreation Internship (12)

Recreational Sports Programming Concentration (12)

CC 3150—Coaching Methods (2)
 Rec 3320—Recreational Sports (3)
 Rec 3327—Life Fitness Programs and Events Management (3)
 Approved upper division electives (4)

Required Courses From Other Programs

Biol 1011*—General Biology I (5)
 Comm 1112*—Public Speaking (3)
 Psy 1003*—General Psychology (4)

* Courses that may be used to fulfill UMD liberal education program requirements.

Electives

24 credits from the following:

Educ 4601—Wilderness Philosophy (2)
 Educ 5165—Theories and Models in Outdoor Education (2)
 HPER 3000—Organization and Administration of Health, Physical Education, and Recreation (3)
 PE 3470—Sports Nutrition (3)
 PEP 3030—Human Biomechanics (3)
 PEP 3040—Exercise Physiology (3)
 Psy 3211—Group Dynamics (3)
 Rec 4991—Independent Study (1-4)
 Rec 4992—Readings in Recreation/Leisure (1-4)
 Rec 4998—Recreation Seminar (1-3)

Exit Standards

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.

Minor Requirements

Acceptance into the recreation minor—recreational sports programming concentration (21-22 credits) requires a minimum GPA of 2.00.

Required Courses

Lower Division Core (11)

Hlth 1620—Wilderness Emergency Care (3)
 or Hlth 1700—Advanced First Aid (3)
 PEP 1xxx elective (4)
 Rec 1000—Introduction to Recreation (4)

Upper Division Core (11)

Rec 3300—Recreation Programming (3)
 Rec 4997—Recreation Practicum (2)
 HPER 3200—Program Evaluation (3)
 Approved upper division Rec electives (3)

Secondary and K-12 Teacher Education

Students preparing to be licensed to teach 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 noncompetitive but based on criteria established by the Department of Education. Admission standards are consistent with Minnesota policies and standards established by the National Council for Accreditation in Teacher Education (NCATE).

To be considered for admission, a student must have a GPA of at least 2.50 overall and in major courses completed at the time of application. Also required is a completed application, passing scores on all sections of the Pre-Professional Skills Test, a current transcript, a personal statement addressing “Why I Want to Be a Teacher,” and a copy of the student’s Academic Progress Audit System (APAS) report. To be considered for student teaching, a student must have maintained a GPA of at least 2.50 overall and in the major and have no grades lower than a C- in courses required for the major. Specific program admission requirements and procedures may be obtained from the Department of Education.

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.

Admission to the program is accepted each semester. Applications must be submitted by the end of the third week of the semester before the semester of admission.

Maintenance Standards

To continue as secondary education or K-12 education majors, students must make satisfactory academic progress, demonstrate acceptable professional performance in their field experiences, and demonstrate satisfactory accommodation of any physical or sensory limitations that have been identified in advance as conditions that need to be accommodated to perform the essential elements of the chosen teaching program. Determinations of impairment, accommodation methods, and

evaluations are made in consultation among the student, the program adviser, and the Access Center. Students who do not meet these standards may be dropped from the program.

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.

Personal Liability Insurance

Students must have personal liability insurance to protect them 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 department office.

Transfer Students

Students who have completed part or all of an approved program at another institution should contact the head of UMD’s Department of Education to find out to what extent their courses meet UMD requirements.

Other Professional Concerns

Forms needed to apply for licensure on completion of an approved program are available in the college’s Student Affairs Office.

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

Students who already have a baccalaureate degree in a nonteaching major should contact the CEHSP Student Affairs Office for information on obtaining licensure.

Students who desire licensure in special education or other areas should refer to those sections in this catalog.

Other questions about secondary licensure should be directed to the department head.

Secondary and K-12 Teacher Licensure Requirements

- EdSe 3204—General Instructional Methods (3)
- EdSe 3205—Apprenticeship: Middle School (2)
- EdSe 3206—Apprenticeship: Secondary School (2)
- EdSe 4100—Human Relations in Classrooms (2)
- EdSe 4501—Educational Psychology (3)
- EdSe 4600—Student Teaching (12)
- EdSe 5120—Philosophy and Organization of Middle Schools (2)
- Educ 1101—Education in Modern Society (3)
- Educ 3412—Computers in Education (4)
- Educ 4381—Teaching American Indian Students (2)
- Educ 4500—Professional Issues Teaching (3)
- Hlth 3202—Drug Education (2)

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 85 percent of teaching major courses and 75 percent of teaching minor courses
- Recommendation of special methods instructor(s) and education department head
- Preregistration for student teaching the first week of the preceding semester

Students preparing for secondary school licensure must spend one semester in full-time student teaching 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 EdSe 4600. Additional credits may be required for certain major/minor combinations. Student teaching is normally done in the senior year.

See also Teacher Licensure Requirements.

Social Studies (Elementary School)

Minor Only

The social studies (elementary school) minor provides an academic specialty area for those seeking Minnesota teacher licensure for kindergarten through grade six.

Requirements (26)

Anth 1604—Cultural Anthropology (4)
 Econ 1003—Economics and Society
 or Econ 1022—Principles of Economics: Macro
 or Econ 1023—Principles of Economics: Micro (3)
 Geog 1202—World Regional Geography
 or Geog 1304—Human Geography (3)
 Geog 1414—Physical Geography (4)
 Hist 1304—American Heritage (3)
 Hist 1305—American Challenges (3)
 Pol 1011—American Government, Politics (3)
 Soc 1101—Introduction to Sociology (3)

Teaching Communication Arts/Literature

B.A.A.

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

Admission Requirements

See admission requirements under Teacher Licensure Requirements.

Degree Requirements

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

- Liberal education requirements
- Advanced writing requirement: Comp 3100—Advanced Writing: Language and Literature (3 credits) *or* Comp 3140—Advanced Writing: Human Services (3 credits) *or* Engl 3115—Writing Fiction (4 credits) *or* Engl 3121—Writing Poetry (4 credits) *or* Engl 5116—Advanced Writing of Fiction (4 credits) *or* Engl 5122—Advanced Writing of Poetry (4 credits)
- Major requirements (101 credits)

Required Courses

Lower Division (18)

Comm 1112*—Public Speaking (3)
 Comm 1222*—Interpersonal Communication (3)
 Comm 1500*—Media and Society (3)
 Educ 1101*—Education in Modern Society (3)
 Engl 1582*—Introduction to World Literature (3)
 Ling 1811*—Introduction to Language (3)

Upper Division (83)

British period course (4)
 Comm 5725—Teaching Methods in Communication (3)
 Educ 3412—Computers in Education (4)
 Educ 4381—Teaching American Indian Students (2)
 Educ 4500—Professional Issues in Teaching (3)
 EdSe 3204—General Instructional Methods (3)
 EdSe 3205—Apprenticeship: Middle School (2)
 EdSe 3206—Apprenticeship: Secondary School (2)
 EdSe 4100—Human Relations in Classrooms (2)
 EdSe 4501—Educational Psychology (3)
 EdSe 4600—Student Teaching (12)
 EdSe 5120—Philosophy and Organization of Middle Schools (2)
 EdSe 5215—Teaching Reading and Literature: Grades 5-12 (5)

- Engl 3501—British Literature I (4)
- Engl 3563—American Literature I (4)
- Engl 3564—American Literature II (4)
- Engl 3906—Methods of Literary Study (4)
- Engl 5902—Teaching Language, Cognition, and Writing (4)
- Engl 5922—Teaching Literature and Communication (3)
- Engl 3xxx-5xxx electives (7)
- Hlth 3202—Drug Education (2)
- Ling 5802—Applied Linguistics (4)

* Courses that may be used to fulfill UMD liberal education program requirements.

Exit Standards

Students must successfully complete a semester of student teaching and must meet other competencies required for Minnesota teacher licensure.

Minor Requirements (38)

Effective August 1, 2001, the state of Minnesota will no longer permit secondary teachers to teach in the area of their minor. Teachers must have completed all requirements for a major in order to be licensed to teach in Minnesota at the high school level.

EdSe 5215—Teaching Reading and Literature: Grades 5-12 (5)

- Engl 1582*—Introduction to World Literatures (3)
- Engl 3563—American Literature I (4)
- Engl 3564—American Literature II (4)
- Engl 3906—Methods of Literary Study (4)
- Engl 5902—Teaching Language, Cognition, and Writing (4)
- Engl 5922—Teaching Literature and Communication (3)
- Ling 1811*—Introduction to Language (3)
- Ling 5802—Applied Linguistics (4)

One course from major British or American authors (4)

* Courses that may be used to fulfill UMD liberal education program requirements.

Teaching Earth Sciences

Adviser: Boman (Education)

B.A.S.

The B.A.S. in teaching earth sciences is offered by the Department of Education in conjunction with the Department of Geology and is for students who plan to teach earth sciences in grades 5 through 12.

Admission Requirements

See admission requirements under Teacher Licensure Requirements.

Degree Requirements

The Minnesota Board of Teaching currently is revising the science teaching licensure requirements. Please see the Department of Education for revisions in this major.

Requirements for the B.A.S. in teaching earth sciences include:

- Liberal education requirements
- Advanced writing requirements: Comp 3140—Advanced Writing: Human Services (3 credits)
- Major requirements (96-97 credits):
Lower division coursework (36 credits),
upper division coursework (60-61 credits)

Required Courses

Lower Division (36)

- Ast 1040*—Introductory Astronomy (3)
- Biol 1011*—General Biology I (5)
- Chem 1151*—General Chemistry I (5)
- Educ 1101*—Education in Modern Society (3)
- Geog 1414*—Physical Geography (4)
- Geol 1110*—Introductory Geology (3)
- Geol 2300—Basic Mineralogy and Petrology (4)
- Math 1250*—Precalculus Analysis (4)
- Phys 1001*—Introduction to Physics I (5)

Upper Division (60-61)

- Educ 3412—The Computer in Education (4)
- Educ 4234—Science, Technology, and Society (3)
- Educ 4381—Teaching American Indian Students (2)
- Educ 4500—Professional Issues in Teaching (3)
- EdSe 3204—General Instructional Methods (3)
- EdSe 3205—Apprenticeship: Middle School (2)
- EdSe 3206—Apprenticeship: Secondary School (2)
- EdSe 4100—Human Relations in Classrooms (2)
- EdSe 4255—Teaching Science: Grades 5-12 (3)
- EdSe 4501—Educational Psychology (3)
- EdSe 4600—Student Teaching (12)
- EdSe 5120—Philosophy and Organization of Middle Schools (2)

- Geog 3401—Weather and Climate (4)
- Geol 2210—Geomorphology (3)
- Geol 2410—Geology of North America (2)
- Geol 2610—Oceanography (3)
- Geol 4110—Advanced Earth Science for Teachers (2)
- Geol elective 2xxx or above (3-4)
- Hlth 3202—Drug Education (2)

* Courses that may be used to fulfill UMD liberal education program requirements.

Exit Standards

Students must successfully complete a semester of student teaching and must meet other competencies required for Minnesota teacher licensure.

Minor Requirements (49-50)

Effective August 1, 2001, the state of Minnesota will no longer permit secondary teachers to teach in the area of their minor. Teachers must have completed all requirements for a major in order to be licensed to teach in Minnesota at the high school level.

Lower Division

- Ast 1040*—Introductory Astronomy (3)
- Biol 1011*—General Biology I (5)
- Chem 1113*—Introduction to General, Organic, and Biological Chemistry I (5)
- Geog 1414*—Physical Geography (4)
- Geol 1110*—Introductory Geology (3)
- Math 1250*—Precalculus Analysis (4)
- Phys 1001*—Introduction to Physics I (5)

Upper Division

- Educ 3412—The Computer in Education (4)
- Educ 4234—Science, Technology, Society (3)
- EdSe 4255—Teaching Secondary Science: Grades 5-12 (3)
- Geog 3401—Weather and Climate (4)
- Geol 2300—Basic Mineralogy and Petrology (4)
- Geol 2410—Geology of North America (3)
- or Geol 2610*—Oceanography (3)

* Courses that may be used to fulfill UMD liberal education program requirements.

Teaching Earth Sciences—Outdoor Education

The B.A.S. in teaching earth sciences is offered by the Department of Education in conjunction with the Department of Geology. This major is for students who plan to teach earth sciences in grades 5-12. Students have the option of also completing the outdoor/environmental education concentration with this major. This concentration prepares students for careers in outdoor education for work in outdoor learning centers, parks, nature preserves, or commercial programs. Students learn to interpret natural and cultural phenomena in the outdoors. This concentration must be taken in conjunction with the teaching biology or teaching earth sciences majors. A student in this concentration must meet the same GPA requirements as for the major. The concentration is noted on the student's diploma.

Admission Requirements

See admissions requirements under Teacher Licensure Requirements.

Degree Requirements

The Minnesota Board of Teaching currently is revising the science teaching licensure requirements. Please see the Department of Education for revisions in this major.

Requirements for the B.A.S. in teaching earth sciences-outdoor/environmental education include:

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

- Major requirements (130-132 credits):
Lower division coursework (36 credits),
upper division coursework (60-61 credits),
optional outdoor/environmental education
concentration coursework (35 credits)

Required Courses

Lower Division (36)

- Ast 1040*—Introduction to Astronomy (3)
- Biol 1011*—General Biology I (5)
- Chem 1151*—General Chemistry I (5)
- Educ 1101*—Education in Modern Society (3)
- Geog 1414*—Physical Geography (4)
- Geol 1110*—Introductory Geology (3)
- Geol 2300—Basic Mineralogy and Petrology (4)
- Math 1250*—Precalculus Analysis (4)
- Phys 1001*—Introduction to Physics I (5)

Upper Division (60-61)

- Educ 3412—The Computer in Education (4)
- Educ 4234—Science, Technology, and Society (3)
- Educ 4381—Teaching American Indian Students (2)
- Educ 4500—Professional Issues in Teaching (3)
- EdSe 3204—General Instructional Methods (3)
- EdSe 3205—Apprenticeship: Middle School (2)
- EdSe 3206—Apprenticeship: Secondary School (2)
- EdSe 4100—Human Relations in Classrooms (2)
- EdSe 4255—Teaching Science: Grades 5-12 (3)
- EdSe 4501—Educational Psychology (3)
- EdSe 4600—Student Teaching (12)
- EdSe 5120—Philosophy and Organization of Middle Schools (2)
- Geog 3401—Weather and Climate (4)
- Geol 2210—Geomorphology (3)
- Geol 2410—Geology of North America (2)
- Geol 2610*—Oceanography (3)
- Geol 4110—Advanced Earth Science for Teachers (2)
- Geol elective 2xxx or above (3-4)
- Hlth 3202—Drug Education (2)

Required Courses From Other Programs

Requirements (35 credits) for the optional outdoor/environmental education concentration:

- Art 1002*—Introduction to Art
or Art 1600—Photography I (3)
- Educ 2605—Introduction to Environmental Education (2)
- Educ 4163—Outdoor Education Methods (2)
- Educ 4601—Wilderness Philosophy (2)
- Educ 5600—Practicum in Education (6)
- Geog 2306*—Environmental Conservation (3)
- Hlth 1700—Advanced First Aid (3)
or Hlth 1620—Wilderness Emergency Care (3)
- Rec 1201—Outdoor Skills I (2)
- Rec 1202—Outdoor Skills II (2)

Three credits (3) from the following six courses:

- PE 1500—Cross-Country Skiing (1)
- PE 1506—Sailing (1)

PE 1507—Flatwater Kayaking (1)

PE 1508—Flatwater Canoeing (1)

PE 1512—Fishing Skills (1)

PE 2240—Lifeguarding Today (1)

Seven credits (7) from the following:

Biol 2803—Issues in Global Ecology (3)

Biol 3603—Plant Taxonomy (3)

Biol 4701—Invertebrate Biology (4)

Biol 4731—Entomology (3)

Biol 4761—Ichthyology (4)

Biol 4763—Ornithology (3)

Biol 5833—Stream Ecology (4)

Biol 5861—Lake Ecology (3)

** Courses that may be used to fulfill UMD liberal education program requirements.*

Exit Standards

Students must successfully complete a student teaching experience and meet other competencies required for Minnesota teacher licensure.

Teaching English (Elementary/Middle School)

Minor Only

The teaching English minor provides an academic specialty area for those seeking Minnesota teacher licensure for kindergarten through grade eight. Students with a major in elementary/middle school education who complete this minor will be licensed to teach in this area at that level.

Requirements (23-24)

Engl 3115—Writing Fiction

or Engl 3121—Writing Poetry (4)

Engl 3501—British Literature I

or Engl 3502—British Literature II (4)

Engl 3563—American Literature I

or Engl 3564—American Literature II (4)

Engl 3906—Methods of Literary Study (5)

or Engl elective approved by adviser

Ling 1811*—Introduction to Language (3)

Select one course (3-4)

Engl 1582*—Introduction to World Literature (3)

Engl 4292—Literature Into Film (4)

HmCl 1021*—Classical Mythology (3)

HmCl 1022*—The Bible as Literature (3)

HmCl 1023*—Folklore (3)

HmCl 3033—Medieval Literature in Cultural Context (4)

HmCl 3221—Science Fiction (3)

** Courses that may be used to fulfill UMD liberal education program requirements.*

Teaching French

B.A.A.

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

See admission requirements under Teacher Licensure Requirements.

Degree Requirements

Requirements for the B.A.A. in teaching French include:

- Liberal education requirements
- Students are encouraged to take Engl 1907—Introduction to Literature for liberal education credit (Category 9), Psy 2021—Developmental Psychology for liberal education credit (Category 6), and Comm 2929—Intercultural Communication for liberal education credit (Category 8). French majors and minors are exempted from the campus-wide requirement for international perspectives courses.
- Advanced writing requirement: Comp 3140—Advanced Writing: Human Services (3 credits)
- Major requirements (83 credits)
Course requirements as listed below.
Study abroad is strongly encouraged.
Students also complete a series of education courses in the Department of Education designed to meet the requirements for Minnesota teacher licensure, including a full semester of student teaching.
Students must pass the oral proficiency exam, maintain a 3.00 GPA in French courses taken, complete the education courses and Lang 4044, and have the permission of the French faculty and the Department of Education before being placed for their student teaching experience.

The core program in language skills (listening, speaking, reading, writing) is common to all majors and minors in French. Students may be exempted from part or all of the core program requirements if they have previously completed French language coursework. Exemptions are determined by the Department of Foreign Languages and Literatures, based on acceptance of transfer credits and personal interviews. Generally students complete the advanced French

language course (Fr 2301) before enrolling in upper division French courses in literature, culture, and teaching methodology.

Required Courses

Lower Division (23)

Educ 1101*—Education in Modern Society (3)
 Fr 1101*—Beginning French I (4)
 Fr 1102*—Beginning French II (4)
 Fr 1201*—Intermediate French I (4)
 Fr 1202*—Intermediate French II (4)
 Fr 2301*—Advanced French (4)

Upper Division (60)

Educ 3412—The Computer in Education (4)
 Educ 4500—Professional Issues in Teaching (3)
 EdSe 3204—General Instructional Methods (3)
 EdSe 3205—Apprenticeship: Middle School (2)
 or EIED 3425—Collateral Fields: Field Experiences (2)
 EdSe 3206—Apprenticeship: Secondary School (2)
 EdSe 4100—Human Relations in Classrooms (2)
 EdSe 4600—Student Teaching (12)
 EdSe 5120—Philosophy and Organization of Middle Schools (2)
 EIED 3113—Learning Environments and Diverse Learning Communities (4)

Hlth 3202—Drug Education (2)

Lang 4044—Language Teaching Methods (4)

Upper division French courses (20), including one culture course taught in French

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.

* Courses that may be used to fulfill UMD liberal education program requirements.

Exit Standards

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

Students must also successfully complete a semester of student teaching and meet other competencies required for Minnesota teacher licensure.

Minor Requirements (32)

Effective August 1, 2001, the state of Minnesota will no longer permit secondary teachers to teach in the area of their minor. Teachers must have completed all requirements for a major in order to be licensed to teach in Minnesota at the high school level.

Students with a major in elementary/middle school education who complete this minor will be licensed to teach in this area for grades K-8.

Required Courses

Fr 1101*—Beginning French I (4)
 Fr 1102*—Beginning French II (4)
 Fr 1201*—Intermediate French I (4)
 Fr 1202*—Intermediate French II (4)
 Fr 2301*—Advanced French (4)
 Lang 4044—Language Teaching Methods (4)
 Upper division French courses (8)

* Courses that may be used to fulfill UMD liberal education program requirements.

Teaching German

B.A.A.

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.

Admission Requirements

See admission requirements under Teacher Licensure Requirements.

Degree Requirements

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

- Liberal education requirements
- Students are encouraged to take Engl 1907—Introduction to Literature for liberal education credit (Category 9), Psy 2021—Developmental Psychology for liberal education credit (Category 6), and Comm 2929—Intercultural Communication for liberal education credit (Category 8). German majors and minors are exempted from the campus-wide requirement for international perspectives courses.
- Advanced writing requirement: Comp 3140—Advanced Writing: Human Services (3 credits)
- Major requirements (83 credits)
 Course requirements as listed below.
 Study abroad is strongly encouraged.
 Students also complete a series of education courses in the Department of Education designed to meet the requirements for Minnesota teacher licensure, including a full semester of student teaching.
 Students must pass the oral proficiency exam, maintain a 3.00 GPA in German courses taken, complete the education courses and Lang 4044, and have the permission of the German faculty and the Department of Education before being placed for their student teaching experience.

The core program in language skills (listening, speaking, reading, writing) is common to all majors and minors in German. Students may be exempted from part or all of the core program requirements if they have previously completed German language coursework. Exemptions are determined by the Department of Foreign Languages and Literatures, based on acceptance of transfer credits and personal interviews. Generally students complete the advanced German language course (Ger 2301) before enrolling in upper division German courses in literature, culture, and teaching methodology.

Required Courses

Lower Division (23)

Educ 1101*—Education in Modern Society (3)
 Ger 1101*—Beginning German I (4)
 Ger 1102*—Beginning German II (4)
 Ger 1201*—Intermediate German I (4)
 Ger 1202*—Intermediate German II (4)
 Ger 2301*—Advanced German (4)

Upper Division (60)

Educ 3412—The Computer in Education (4)
 Educ 4500—Professional Issues in Teaching (3)
 EdSe 3204—General Instructional Methods (3)
 EdSe 3205—Apprenticeship: Middle School (2)
 or EIEd 3425—Collateral Fields: Field Experiences (2)
 EdSe 3206—Apprenticeship: Secondary School (2)
 EdSe 4100—Human Relations in Classrooms (2)
 EdSe 4600—Student Teaching (12)
 EdSe 5120—Philosophy and Organization of Middle Schools (2)
 EIEd 3113—Learning Environments and Diverse Learning Communities (4)
 Hlth 3202—Drug Education (2)
 Lang 4044—Language Teaching Methods (4)
 Upper division German courses (20), including one culture course taught in German

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.

* Courses that may be used to fulfill UMD liberal education program requirements.

Exit Standards

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

Students must also successfully complete a semester of student teaching and meet other competencies required for Minnesota teacher licensure.

Minor Requirements (32)

Effective August 1, 2001, the state of Minnesota will no longer permit secondary teachers to teach in the area of their minor. Teachers must have completed all requirements for a major in order to be licensed to teach in Minnesota at the high school level.

Students with a major in elementary/middle school education who complete this minor will be licensed to teach in this area from grades K-8.

Ger 1101*—Beginning German I (4)
 Ger 1102*—Beginning German II (4)
 Ger 1201*—Intermediate German I (4)
 Ger 1202*—Intermediate German II (4)
 Ger 2301*—Advanced German (4)
 Lang 4044—Language Teaching Methods (4)
 Upper division German courses (8)

A student minoring in teaching German must pass an oral proficiency exam in German, which may be repeated until successful completion is achieved.

* Courses that may be used to fulfill UMD liberal education program requirements.

Teaching Life Science

Adviser: *Boman (Education)*

B.A.S.

The B.A.S. in teaching life science is offered by the Department of Education in conjunction with the Department of Biology. This major is for students who intend to teach biology in grades 5-12.

Admission Requirements

See admissions requirements under Teacher Licensure Requirements.

Degree Requirements

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

- Liberal education requirements
- Advanced writing requirement: Comp 3140—Advanced Writing: Human Services (3 credits)
- Major requirements (97-101 credits):
 Lower division coursework (54-58 credits),
 upper division coursework (43 credits)

Required Courses

Lower Division (54-58)

Biol 1011*—General Biology I (5)
 Biol 1012—General Biology II (5)
 Biol 1761—Human Anatomy
 or Biol 4767—Comparative Anatomy of Vertebrates (4)
 Biol 2101—Cell Biology (3)
 Biol 2201—Genetics (3)

Colleges and Schools

Biol 2801—General Ecology (3)
Biol 2802—Ecology Laboratory (2)
Chem 1113*—Introduction to General, Organic, and Biological Chemistry I (5)
and Chem 1114—Introduction to General, Organic, and Biological Chemistry II (5)
or Chem 1151*—General Chemistry I (5)
and Chem 1152—General Chemistry II (5)
and Chem 2521—Organic Chemistry I (4)
Educ 1101*—Education in Modern Society (3)
Geol 1110*—Introductory Geology (3)
Hlth 2040—Principles of Human Physiology (4)
Math 1250*—Precalculus Analysis (4)
Phys 1001*—Introduction to Physics I (5)

Upper Division (43)

Educ 3412—The Computer in Education (4)
Educ 4234—Science, Technology, and Society (3)
Educ 4381—Teaching American Indian Students (2)
Educ 4500—Professional Issues in Teaching (3)
EdSe 3204—General Instructional Methods (3)
EdSe 3205—Apprenticeship: Middle School (2)
EdSe 3206—Apprenticeship: Secondary School (2)
EdSe 4100—Human Relations in Classrooms (2)
EdSe 4255—Teaching Science: Grades 5-12 (3)
EdSe 4501—Educational Psychology (3)
EdSe 4600—Student Teaching (12)
EdSe 5120—Philosophy and Organization of Middle Schools (2)
Hlth 3202—Drug Education (2)

* Courses that may be used to fulfill UMD liberal education program requirements.

Exit Standards

Students must successfully complete a semester of student teaching and meet other competencies required for Minnesota teacher licensure.

Minor Requirements (52-53)

Effective August 1, 2001, the state of Minnesota will no longer permit secondary teachers to teach in the area of their minor. Teachers must have completed all requirements for a major in order to be licensed to teach in Minnesota at the high school level.

Required Courses

Lower Division

Biol 1011*—General Biology I (5)
Biol 1012—General Biology II (5)
Biol 2201—Genetics (3)
Biol 2801—General Ecology (3)
Chem 1113*—Introduction to General, Organic, and Biological Chemistry I (5)
Geol 1110*—Introductory Geology (3)
Geol 2300—Basic Mineralogy and Petrology (4)

Geol 2410—Geology of North America (2)
or Geol 2610*—Oceanography (3)
Math 1250*—Precalculus Analysis (4)
Phys 1001*—Introduction to Physics I (5)

Upper Division

Biol—Electives 3xxx or above (3)
Educ 3412—The Computer in Education (4)
Educ 4234—Science, Technology, and Society (3)
EdSe 4255—Teaching Science: Grades 5-12 (3)
* Courses that may be used to fulfill UMD liberal education program requirements.

Teaching Life Science—Outdoor Education

This concentration prepares students for careers in outdoor education for work in outdoor learning centers, parks, nature preserves, or commercial programs. Students learn to interpret natural and cultural phenomena in the outdoors. This concentration must be taken in conjunction with the teaching biology or teaching earth sciences majors. A student in this concentration must meet the same GPA requirements as for the major. The concentration is noted on the student's diploma.

Admission Requirements

See admissions requirements under Teacher Licensure Requirements.

Degree Requirements

Requirements for the B.A.S. in teaching life science-outdoor education include:

- Liberal education requirements
- Advanced writing requirement: Comp 3140—Advanced Writing: Human Services (3 credits)
- Major requirements (132-136 credits):
Lower division coursework (54-58 credits),
upper division coursework (43 credits),
required courses for optional outdoor/
environmental education concentration
(35 credits)

Required Courses

Lower Division (54-58)

Biol 1011*—General Biology I (5)
Biol 1012—General Biology II (5)
Biol 2101—Cell Biology (3)
Biol 2201—Genetics (3)
Biol 1761—Human Anatomy
or Biol 4767—Comparative Anatomy of Vertebrates (4)
Biol 2801—General Ecology (3)
Biol 2802—Ecology Laboratory (2)

Chem 1113*—Introduction to General, Organic, and Biological Chemistry I
and Chem 1114—Introduction to General, Organic, and Biological Chemistry II (10)

or Chem 1151*—General Chemistry I
and Chem 1152—General Chemistry II (10)
and Chem 2521—Organic Chemistry I (4)

Educ 1101*—Education in Modern Society (3)

Geol 1110*—Introductory Geology (3)

Hlth 2040—Principles of Human Physiology (4)

Math 1250*—Precalculus Analysis (4)

Phys 1001*—Introduction to Physics I (5)

Upper Division (43)

Educ 3412—The Computer in Education (4)

Educ 4234—Science, Technology, and Society (3)

Educ 4381—Teaching American Indian Students (2)

Educ 4500—Professional Issues in Teaching (3)

EdSe 3204—General Instructional Methods (3)

EdSe 3205—Apprenticeship: Middle School (2)

EdSe 3206—Apprenticeship: Secondary School (2)

EdSe 4100—Human Relations in Classrooms (2)

EdSe 4255—Teaching Science: Grades 5-12 (3)

EdSe 4501—Educational Psychology (3)

EdSe 4600—Student Teaching (12)

EdSe 5120—Philosophy and Organization of Middle Schools (2)

Hlth 3202—Drug Education (2)

* Courses that may be used to fulfill UMD liberal education program requirements.

Electives

Requirements (35 credits) for the outdoor education concentration:

Art 1002*—Introduction to Art

or Art 1600—Photography I (3)

Educ 2605—Introduction to Environmental Education (2)

Educ 4163—Outdoor Education Methods (2)

Educ 4601—Wilderness Philosophy (2)

Educ 5600—Practicum in Education (6)

Geog 2306*—Environmental Conservation (3)

Hlth 1620—Wilderness Emergency Care (3)

or Hlth 1700—Advanced First Aid (3)

Rec 1201—Outdoor Skills I (2)

Rec 1202—Outdoor Skills II (2)

Three credits (3) from the following six courses:

PE 1500—Cross-Country Skiing (1)

PE 1506—Sailing (1)

PE 1507—Flatwater Kayaking (1)

PE 1508—Flatwater Canoeing (1)

PE 1512—Fishing Skills (1)

PE 2240—Lifeguarding Today (1)

Seven credits (7) from the following: **

Biol 2803*—Issues in Global Ecology (3)

Biol 3603—Plant Taxonomy (3)

Biol 4701—Invertebrate Biology (4)

Biol 4731—Entomology (3)

Biol 4761—Ichthyology (4)

Biol 4763—Ornithology (3)

Biol 5833—Stream Ecology (4)

Biol 5861—Lake Ecology (3)

* Courses that may be used to fulfill UMD liberal education program requirements.

** For teaching biology majors, these 7 credits may also satisfy a portion of the electives for the major field requirement.

Exit Standards

Students must successfully complete a student teaching experience and meet other competencies required for Minnesota teacher licensure.

Teaching Mathematics

Faculty Coordinator: Pagnucco

B.A.S.

The B.A.S. 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

See admission requirements under Teacher Licensure Requirements.

Degree Requirements

Requirements for the B.A.S. in teaching mathematics include:

- Liberal education requirements
- Advanced writing requirement: Comp 3140—Advanced Writing: Human Services or Comp 3150—Advanced Writing: Science (3 credits)
- Major requirements (97 credits):
Lower division coursework (18 credits),
upper division coursework (79 credits)

Required Courses

Lower Division (18)

CS 1511*—Computer Science I (5)

Educ 1101*—Education in Modern Society (3)

Math 1296*—Calculus I (5)

Math 1297—Calculus II (5)

Upper Division (79)

Educ 3412—The Computer in Education (4)

Educ 4381—Teaching American Indian Students (2)

Educ 4500—Professional Issues in Teaching (4)

EdSe 3204—General Instructional Methods (3)

EdSe 3205—Apprenticeship: Middle School (2)

EdSe 3206—Apprenticeship: Secondary School (2)

EdSe 4100—Human Relations in Classrooms (2)

EdSe 4222—Teaching Mathematics: Grades 5-12 (4)

EdSe 4501—Educational Psychology (3)

EdSe 4600—Student Teaching (12)
 EdSe 5120—Philosophy and Organization of Middle Schools (2)
 Hlth 3202—Drug Education (2)
 Math 3110—Foundations of Mathematics and Geometry (5)
 Math 3280—Differential Equations with Linear Algebra (4)
 Math 3299—Intermediate Analysis (3)
 Math 3355—Discrete Mathematics (4)
 Math 3941—Undergraduate Colloquium (1)
 Math 5371—Abstract Algebra I (3)
 Stat 3611—Introduction to Probability and Statistics (4)
 Electives at the 3xxx-4xxx level (13)

* Courses that may be used to fulfill UMD liberal education program requirements.

Exit Standards

Students must successfully complete a semester of student teaching and meet other competencies required for Minnesota teacher licensure.

Minor Requirements (24-26)

Effective August 1, 2001, the state of Minnesota will no longer permit secondary teachers to teach in the area of their minor. Teachers must have completed all requirements for a major in order to be licensed to teach in Minnesota at the high school level.

Students with a major in elementary/middle school education who complete this minor are licensed to teach in this area for grades K-8.

Required Courses

Lower Division

Math 1160*—Finite Mathematics and Introduction to Calculus (5)
 and Math 1250—Precalculus Analysis (4)
 or Math 1296*—Calculus I (5)
 and Stat 3611—Introduction to Probability and Statistics (4)
 Stat 1411—Introduction to Statistics (3)

Upper Division

EdSe 4222—Teaching Mathematics: Grades 5-12 (4)
 or other mathematics methods course approved by adviser
 Math 3110—Foundations of Mathematics and Geometry (5)
 Math 3280—Differential Equations with Linear Algebra (4)
 * Courses that may be used to fulfill UMD liberal education program requirements.

Teaching Physical Sciences

Adviser: Boman (Education)

B.A.S.

The B.A.S. in teaching physical sciences is offered by the Department of Education in conjunction with the Departments of Chemistry and Physics. This major prepares students to teach physical sciences, chemistry, and physics in grades 5 through 12.

Admission Requirements

See admissions requirements under Teacher Licensure Requirements.

Degree Requirements

The Minnesota Board of Teaching currently is revising the science teaching licensure requirements. Please see the Department of Education for revisions in this major.

Requirements for the B.A.S. in teaching physical sciences include:

- Liberal education requirements
- Advanced writing requirement: Comp 3140—Advanced Writing: Human Services (3 credits)
- Major requirements (91-92 credits):
 Lower division coursework (38 credits),
 upper division coursework (53-54 credits)

Required Courses

Lower Division (38)

Chem 1151*—General Chemistry I (5)
 Chem 1152—General Chemistry II (5)
 Educ 1101*—Education in Modern Society (3)
 Math 1296*—Calculus I (5)
 Phys 1201*—Mechanics (4)
 Phys 1202—Heat and Electricity (4)
 Phys 1203—Magnetism, Waves, and Optics (4)
 Chem 2222—Quantitative Analysis (4)
 Chem 2521—Organic Chemistry I (4)

Upper Division (53-54)

Educ 3412—The Computer in Education (4)
 Educ 4234—Science, Technology, and Society (3)
 Educ 4381—Teaching American Indian Students (2)
 Educ 4500—Professional Issues in Teaching (3)
 EdSe 3204—General Instructional Methods (3)
 EdSe 3205—Apprenticeship: Middle School (2)
 EdSe 3206—Apprenticeship: Secondary School (2)
 EdSe 4100—Human Relations in Classrooms (2)
 EdSe 4255—Teaching Science: Grades 5-12 (3)
 EdSe 4501—Educational Psychology (3)
 EdSe 4600—Student Teaching (12)
 EdSe 5120—Philosophy and Organization of Middle Schools (2)
 Hlth 3202—Drug Education (2)
 Phys 2021—Relativity and Quantum Physics (4)
 Phys 2031—Quantum Physics Laboratory (1)

Select two (5-6) from:

Engr 2026—Dynamics (3)

Phys 2001—Oscillations (2)

Phys 3061—Instrumentation (3)

Phys 5061—Experimental Methods (3)

* Courses that may be used to fulfill UMD liberal education program requirements.

Exit Standards

Students must successfully complete a semester of student teaching and meet other competencies required for Minnesota teacher licensure.

Minor Requirements (28)

Effective August 1, 2001, the state of Minnesota will no longer permit secondary teachers to teach in the area of their minor.

Teachers must have completed all requirements for a major in order to be licensed to teach in Minnesota at the high school level.

Required Courses

Lower Division

Chem 1151*—General Chemistry I (5)

and Chem 1152—General Chemistry II (5)

or Chem 1161*—Honors Course: General Chemistry I (5)

and Chem 1162—Honors Course: General Chemistry II (5)

Chem 2222—Quantitative Analysis (4)

Chem 2521—Organic Chemistry I (4)

Upper Division

Educ 3412—The Computer in Education (4)

Educ 4234—Science, Technology, and Society (3)

EdSe 4255—Teaching Science: Grades 5-12 (3)

See also teaching physics minor

* Courses that may be used to fulfill UMD liberal education program requirements.

Teaching Physics

Minor Only

Effective August 1, 2001, the state of Minnesota will no longer permit secondary teachers to teach in the area of their minor. Teachers must have completed all requirements for a major in order to be licensed to teach in Minnesota at the high school level.

Requirements

The teaching physics minor requires 22 credits of lower division coursework and 13-14 credits of upper division coursework, for a total of 35-36 credits.

Required Courses

Lower Division (22)

Math 1296*—Calculus I (5)

Phys 1201*—Mechanics (4)

Phys 1202—Heat and Electricity (4)

Phys 1203—Magnetism, Waves, and Optics (4)

Phys 2021—Relativity and Quantum Physics (4)

Phys 2031—Quantum Physics Laboratory (1)

Upper Division (13-14)

Educ 3412—The Computer in Education (4)

Educ 4234—Science, Technology and Society (3)

EdSe 4255—Teaching Science Grades 5-12 (3)

Phys 3099—Physics Tutoring

or Phys 5090—Physics Seminar (1)

One from next four:

Engr 2026—Dynamics (3)

Phys 2001—Oscillations (2)

Phys 3061—Instrumentation (3)

Phys 5061—Experimental Methods (3)

* Courses that may be used to fulfill UMD liberal education program requirements.

Teaching Science (Middle School)

B.A.S.

The B.A.S. in teaching science (middle school) is offered by the Department of Education in conjunction with the Departments of Biology, Chemistry, Geology, and Physics. This major (97-98 credits) is for students who intend to teach general science in grades 5-9.

Admission Requirements

See admissions requirements under Teacher Licensure Requirements.

Degree Requirements

The Minnesota Board of Teaching currently is revising the science teaching licensure requirements. Please see the Department of Education for revisions in this major.

Requirements for the B.A.S. in teaching science (middle school) include:

- Liberal education requirements
- Advanced writing requirement: Comp 3140—Advanced Writing: Human Services (3 credits)
- Major requirements (98-99 credits): Lower division coursework (47-48 credits), upper division coursework (51 credits)

Required Courses**Lower Division (47-48)**

- Ast 1040*—Introductory Astronomy (3)
 Biol 1761—Human Anatomy
 or Biol 4767—Comparative Anatomy of Vertebrates
 or Hlth 2040—Principles of Human Physiology (4)
 Biol 1011*—General Biology I (5)
 Biol 1012—General Biology II (5)
 Chem 1113*—Introduction to General, Organic, and Biological Chemistry I (5)
 Chem 1114—Introduction to General, Organic, and Biological Chemistry II (5)
 Educ 1101*—Education in Modern Society (3)
 Geol 1110*—Introductory Geology (3)
 Math 1160*—Finite Mathematics and Introduction to Calculus (5)
 or Math 1250*—Precalculus Analysis (4)
 Phys 1001*—Introduction to Physics I (5)
 Phys 1002—Introduction to Physics II (5)

Upper Division (51)

- Educ 3412—The Computer in Education (4)
 Educ 4234—Science, Technology, and Society (3)
 Educ 4381—Teaching American Indian Students (2)
 Educ 4500—Professional Issues in Teaching (3)
 EdSe 3204—General Instructional Methods (3)
 EdSe 3205—Apprenticeship: Middle School (2)
 EdSe 3206—Apprenticeship: Secondary School (2)
 EdSe 4100—Human Relations in Classrooms (2)
 EdSe 4255—Teaching Science: Grades 5-12 (3)
 EdSe 4501—Educational Psychology (3)
 EdSe 4600—Student Teaching (12)
 EdSe 5120—Philosophy and Organization of Middle Schools (2)
 Geol 2311—Mineralogy and Petrology I (4)
 Geol 2312—Mineralogy and Petrology II (4)
 Hlth 3202—Drug Education (2)

* Courses that may be used to fulfill UMD liberal education program requirements.

Exit Standards

Students must successfully complete a semester of student teaching and must meet other competencies required for Minnesota teacher licensure.

Teaching Science (Elementary/Middle School)

Minor Only

The teaching science minor provides an academic specialty area for those seeking Minnesota teacher licensure for kindergarten through grade eight. Students with a major in elementary/middle school education who complete this minor will be licensed to teach in this area at that level.

Requirements (22)

At least one of the following sequences (6-10):

- Biol 1011-1112—General Biology I-II
 or Chem 1113-1114—Introduction to General, Organic, Biological Chemistry
 or Chem 1151-1152—General Chemistry I-II (10)
 Geol 1110—Introductory Geology (3)
 and Ast 1040—Introduction to Astronomy (3)
 or Geol 1110—Introductory Geology (3)
 and Geol 2610—Oceanography (3)
 Phys 1001-1002—Introduction to Physics I-II (10)
 or Phys 1201-1202—Mechanics, Heat, Electricity (8)

At least 3 credits from each of the following three categories. Credits may include the course sequence used to fulfill requirements above.

- Category 1—Biology (3)
 Category 2—Chemistry or Physics (3)
 Category 3—Geology or Astronomy (3)

A minimum of 4 credits of approved science education courses from Educ 4163, 4234, 5236, 5555, 5570, and/or EIED 3425

Additional electives from Ast, Biol, Chem, Geol, or Phys to bring the total for the minor to 22 credits.

Teaching Social Studies

B.A.A.

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 seven areas: anthropology, economics, geography, history, political science, psychology, and sociology. Students then select one of these areas in which to complete an upper division concentration. Students complete additional coursework in education. Minnesota issues a broad area social studies teaching license, rather than a license to teach in a specific area such as history or geography.

Admission Requirements

See admission requirements under Teacher Licensure Requirements.

Degree Requirements

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

- Liberal education requirements
- Advanced writing requirement: Comp 3140—Advanced Writing: Human Services (3 credits)
- Major requirements (100 credits): Lower division courses in each of the seven social studies areas (35-36 credits, some courses also fulfill liberal education requirements), upper division courses in an area of concentration (18 credits), other education and social studies courses (51-52 credits).

Required Courses

Social Studies Lower Division (33)

- Anth 1602—Prehistoric Cultures
- or Anth 1604—Cultural Anthropology (4)
- Econ 1003—Economics and Society
- or Econ 1022—Principles of Economics: Macro
- or Econ 1023—Principles of Economics: Micro (3)
- Geog 1202—World Regional Geography
- or Geog 1304—Human Geography (3)
- Geog 1414—Physical Geography (4)
- Hist 1207—Dawn of Modern Europe
- or Hist 1208—Europe in the Modern Age (3)
- Hist 1304—American Heritage
- or Hist 1305—American Challenges (3)
- Pol 1011—American Government and Politics (3)
- Pol 1050—International Relations
- or Pol 1500—Introduction to Comparative Politics
- or Pol 1610—Politics, Society (3)
- Psy 1003—General Psychology (4)
- Soc 1101—Introduction to Sociology (3)

Social Studies Upper Division

Non-Western History (3-4)

- Select one course:*
- AmIn 2115—Chippewa History and Culture (3)
- Hist 3462—History of Modern Japan (3)
- Hist 3463—History of Modern China (3)
- Hist 3515—Modern Africa (3)
- Hist 3516—Society and Culture in 20th-Century Africa (3)
- Pol 3520—Chinese Government and Politics (4)
- Pol 3560—Latin American Government and Politics (4)
- Pol 3570—The Third World and Development (3)
- Span 2540*—Latino Literatures and Cultures (3)

Social Studies Concentration (18)

Select *one* of the seven social science fields and complete the 18-credit concentration as specified for each field below.

Required Education Courses

- Educ 1101*—Education in Modern Society (3)
- Educ 3412—The Computer in Education (4)
- Educ 4234—Science, Technology, and Society (3)
- Educ 4381—Teaching American Indian Students (2)
- Educ 4500—Professional Issues in Teaching (3)
- EdSe 3204—General Instructional Methods (3)
- EdSe 3205—Apprenticeship: Middle School (2)
- EdSe 3206—Apprenticeship: Secondary School (2)
- EdSe 4100—Human Relations in Classrooms (2)
- EdSe 4501—Educational Psychology (3)
- EdSe 4244—Teaching Social Studies: Grades 5-12 (3)
- EdSe 4600—Student Teaching (12)
- EdSe 5120—Philosophy and Organization of Middle Schools (2)
- Hlth 3202—Drug Education (2)

Anthropology Concentration (18)

- Anth 4651—The Development of Anthropological Theory (4)
- Soc 3151—Research Methods and Analysis (3)
- Electives in 3xxx or 4xxx Anth courses (11)

Economics Concentration (18)

- Econ 1022*—Principles of Economics: Macro (3)
- Econ 1023*—Principles of Economics: Micro (3)
- Electives in 3xxx, 4xxx, or 5xxx courses (12)

Geography Concentration (17-18)

- Geog 3401—Weather and Climate (4)
- Geog 3702—Geography of United States and Canada (3)
- or Geog 3707—Geography of Minnesota (2)
- Geog 5612—Field Techniques (4)
- One topical cultural geography course from 3104, 3113, 3143 (4)
- or one topical economic geography course from 3332, 3342, 3352 (4)

Elective at 3xxx or above (3)

History Concentration (18)

Choose from the following (no more than 8 cr in any one group):

Group I: American History

- Hist 2357*—Women in American History (3)
- Hist 3361—The American City (3)
- Hist 3365—American Society and Culture (3)
- Hist 3367—Civil Rights Movement: Recent America (3)
- Hist 3384—American Foreign Relations I (3)
- Hist 3385—American Foreign Relations II (3)

Group II: European History

- Hist 2265*—Russia in the 20th Century (3)
- Hist 3239—Europe in the Age of Renaissance and Reformation: 1348-1648 (3)
- Hist 3241—Europe in Revolution: 1789-1948 (3)
- Hist 3242—Europe in Ascendance: 1848-1914 (3)
- Hist 3243—Europe in Crisis in the 20th Century (3)
- Hist 3256—Making of Modern Britain (3)
- HmCl 3021—The Age of the Heroes: Homer and His World (3)
- HmCl 3031—Roman Republic (3)

- HmCl 3041—Roman Empire (3)
- HmCl 3055—Ancient Near East (3)
- HmCl 3151—Ancient Egyptian Culture (3)
- HmCl 3333—From Homer to Alexander in Archaic and Classical Greece (3)

Group III: Asian History or Other Non-U.S., Non-European History

- Hist 3461—History of Tradition of East Asia to 1800 (3)
- Hist 3462—History of Modern Japan (3)
- Hist 3463—History of Modern China (3)
- Hist 3491—History of Modern Asia (3)
- Hist 3510—History of Pre-Colonial Africa (3)
- Hist 3515—Modern Africa (3)
- Hist 3516—Society and Culture in 20th-Century Africa (3)
(this course may not be counted toward the upper division Non-Western History category if it is counted toward the history concentration)

Political Science Concentration (18)

Choose from the following (no more than 8 credits in any one group):

Category I: American Politics

- Pol 3001—Introduction to American Public Policy (3)
- Pol 3020—State Government (3)
- Pol 3030—Urban Government and Politics (3)
- Pol 3040—Women and Politics (3)
- Pol 3070—Civil Liberties (3)
- Pol 3080—Environment and Politics (3)
- Pol 3130—Judicial Process (3)
- Pol 3140—American Political Parties and Elections (3)
- Pol 3150—American Constitutional Law I (4)
- Pol 3151—American Constitutional Law II (4)
- Pol 3170—Political Interest Groups and Individuals (3)
- Pol 3221—Introduction to Public Administration (3)
- Pol 3310—Public Opinion and Propaganda (3)

Category II: International Politics

- Pol 3400—Contemporary Issues in World Politics (4)
- Pol 3402—American and Foreign Defense Policy (3)
- Pol 3415—International Law (4)
- Pol 3426—Politics of International Organizations (4)
- Pol 3460—International Political Economy (4)

Category III: Comparative Politics

- Pol 3510—Russian and Soviet Politics and Government (4)
- Pol 3517—Western European Political Systems (4)
- Pol 3520—Chinese Government and Politics (4)
- Pol 3570—Third World and Development (3)

Category IV: Political Theory

- Pol 3610—Political Economy: Introduction (4)
- Pol 3625—Democratic Theory (4)
- Pol 3640—Theory and Practice of Nonviolence (4)
- Pol 3651—History of Western Political Thought I (4)
- Pol 3652—History of Western Political Thought II (4)
- Pol 5610—Contemporary Political Theory (3)

Psychology Concentration (18)

- Psy 2021*—Developmental Psychology (4)
- Psy 2223*—Gender in Society (4)
- Psy 3021—Experimental Design and Methodology (4)

- Psy 3111—Theories of Personality (3)
- Psy 3121—Abnormal Psychology (4)
- Psy 3201—Social Psychology (3)
- Psy 3211—Group Dynamics (3)
- Psy 3215—Topics in Human Sexuality (3)
- Psy 3371—Child and Adolescent Psychology (3)
- Psy 3611—Learning and Cognition (3)

Sociology Concentration (18)

- Soc 2111—Sociological Theory (3)
- Soc 3151—Research Methods and Analysis (3)
- Soc 3701—Social Psychology (3)
- Soc 3831—Organization and Society
or Soc 3821—Sociology of Community (3)
- Soc 3901—Social Change/Social Policy (3)
- Elective at 3xxx or 4xxx level (3)
- * Courses that may be used to fulfill UMD liberal education program requirements.

Exit Standards

Students must successfully complete a student teaching experience and meet other competencies required for Minnesota licensure.

Teaching Spanish

B.A.A.

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.

Admission Requirements

See admission requirements under Teacher Licensure Requirements.

Degree Requirements

Requirements for the B.A.A. in teaching Spanish include:

- Liberal education requirements. Students also are encouraged to take Engl 1907—Introduction to Literature for liberal education credit (Category 9), Psy 2021—Developmental Psychology for liberal education credit (Category 6), and Comm 2929—Intercultural Communication for liberal education credit (Category 8). Spanish majors and minors are exempted from the campus-wide requirement for international perspectives courses.
- Advanced writing requirement: Comp 3140—Advanced Writing: Human Services (3 credits)
- Requirements for the major (83 credits) include:
Course requirements as listed below.
Study abroad is strongly encouraged.

Students also complete a series of education courses in the Department of Education designed to meet the requirements for Minnesota teacher licensure, including a full semester of student teaching experience.

Students must pass the oral proficiency exam, maintain a 3.00 GPA in Spanish courses taken, complete the education courses and Lang 4044, and have the permission of the Spanish faculty and the Department of Education before being placed for their student teaching experience.

The core program in language skills (listening, speaking, reading, writing) is common to all majors and minors in Spanish. Students may be exempted from part or all of the core program requirements if they have previously completed Spanish language coursework. Exemptions are determined by the Department of Foreign Languages and Literatures, based on acceptance of transfer credits and personal interviews. Generally students complete the advanced Spanish language course (Span 2301) before enrolling in upper division Spanish courses in literature, culture, and teaching methodology.

Required Courses

Lower Division (23)

Educ 1101*—Education in Modern Society (3)
 Span 1101*—Beginning Spanish I (4)
 Span 1102*—Beginning Spanish II (4)
 Span 1201*—Intermediate Spanish I (4)
 Span 1202*—Intermediate Spanish II (4)
 Span 2301*—Advanced Spanish (4)

Upper Division (60)

Educ 3412—The Computer in Education (4)
 Educ 4500—Professional Issues in Teaching (3)
 EdSe 3204—General Instructional Methods (3)
 EdSe 3205—Apprenticeship: Middle School (2)
 or EIEd 3425—Collateral Fields: Field Experiences (2)
 EdSe 3206—Apprenticeship: Secondary School (2)
 EdSe 4100—Human Relations in Classrooms (2)
 EdSe 4600—Student Teaching (12)
 EdSe 5120—Philosophy and Organization of Middle Schools (2)
 EIEd 3113—Learning Environments and Diverse Learning Communities(4)
 Hlth 3202—Drug Education (2)
 Lang 4044—Language Teaching Methods (4)
 Upper division Spanish courses (20), including one culture course taught in Spanish and
 Span 3042—Hispanic American Civilization and Culture
 or Span 3044—Spanish Civilization and Culture (4)
 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.

* Courses that may be used to fulfill UMD liberal education program requirements.

Exit Standards

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

Students must also successfully complete a semester of student teaching and meet other competencies required for Minnesota teacher licensure.

Minor Requirements (31)

Effective August 1, 2001, the state of Minnesota will no longer permit secondary teachers to teach in the area of their minor. Teachers must have completed all requirements for a major in order to be licensed to teach in Minnesota at the high school level.

Students with a major in elementary/middle school education who complete this minor will be licensed to teach in this area from grades K-8.

Lang 4044—Language Teaching Methods (4)

Span 1101*—Beginning Spanish I (4)

Span 1102*—Beginning Spanish II (4)

Span 1201*—Intermediate Spanish I (4)

Span 1202*—Intermediate Spanish II (4)

Span 2301*—Advanced Spanish (4)

Upper division Spanish courses (7)

Students must complete the oral proficiency exam in Spanish, which may be repeated until successful completion is achieved.

* Courses that may be used to fulfill UMD liberal education program requirements.