The College of Education and Human Service Professions emphasizes the use of technology for teaching and learning.
College of Education and Human Service Professions (CEHSP)

Dean: Paul N. Deputy
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. 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, 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 Social Work.

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

Admission to Upper Division Programs
Students majoring in any teacher licensure program, communication sciences and disorders, exercise science, recreation, or community health education are admitted to CEHSP as pre-majors.

Admission to a major is contingent on submission of evidence that the student has completed prerequisite courses, earned a satisfactory GPA, taken appropriate tests, made plans for the rest of the academic program, and in some majors, participated in a personal interview to review these matters. Standards are set by the individual departments, and students should consult their adviser or department office for information.

Students applying to programs that do not have upper division processes will be admitted to the major for the first registration and remain in the program as long as minimum GPA requirements for graduation are maintained. Students who fall below the minimum are monitored by their advisers.

Academic Standing

Good Academic Standing
Students who have 20 or more completed credits (including credits outside the University and credits by exam) must have a 2.00 minimum overall GPA to be in good academic standing in CEHSP. Students who have attempted fewer than 20 credits (at UMD or elsewhere) must have a 1.80 minimum overall GPA to be in good academic standing. Credits taken outside the University are not calculated into the University 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 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 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 UMD Continuing Education or summer school. Students who have been academically dismissed must receive permission from the college office in order to register through Continuing Education. Students may not make up grade point deficiencies outside the
University of Minnesota Duluth. 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.

**Grievance Procedure**

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

**College Honors**

At UMD, a maximum of 15 percent of the graduating class can graduate with college honors. In CEHSP, the top 3 percent of the graduating class is designated *summa cum laude*, the next 5 percent *magna cum laude*, and the next 7 percent *cum laude*. The 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, Continuing Education, and summer session.

**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 (CE)**

The college coordinates CE courses, conferences, and institutes in conjunction with CE. Both undergraduate- and graduate-level credits may be earned through CE. In-service educators may apply credits earned through CE to the M.Ed. program and, with Graduate School approval, to Graduate School programs. For more information, contact CE, 104 Darland Administration Building (218-726-6797).

**Degrees Offered**

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

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

**Majors**

Teaching communication arts/literature
Teaching French
Teaching German
Teaching social studies (with one of the following concentrations)
  - Anthropology
  - Economics
  - Geography
  - History
  - Political science
  - Psychology
  - Sociology
  - 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 work with young children or teach in elementary and selected secondary education fields and offers the nonteaching fields of communication sciences and disorders, community health education, exercise science, psychology, and recreation.

**Majors**

Communication sciences and disorders
Early childhood studies
Elementary/middle school teacher education
Exercise science (with one of the following concentrations)
  - Athletic training
  - Health and fitness
  - Exercise and sport science
  - Special area of interest
Health education (with one of the following concentrations)
  - Community health
  - School health
Physical education
Psychology
Recreation with the outdoor education concentration
Teaching earth and space sciences
  - Optional environmental education concentration
Teaching life science
  - Optional environmental education concentration
Teaching mathematics
Teaching physical sciences (with one of the following concentrations)
  - Chemistry
  - Physics
Colleges and Schools

Minors
Coaching
Health education
Psychology
Recreation-outdoor education
Teaching communication arts/literature (elementary/middle school)
Teaching French (elementary/middle school)
Teaching German (elementary/middle school)
Teaching mathematics (elementary/middle school)
Teaching science (elementary/middle school)
Teaching social studies (elementary/middle school)
Teaching Spanish (elementary/middle school)

Teaching minors can only be combined with the elementary/middle school major.

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.
- 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.
- Degree candidates must complete at least 30 degree credits at UMD. At least 20 of the last 30 degree credits immediately before graduation must have been taken at UMD.

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

Master of Education (M.Ed.)
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.

An M.Ed. Partnerships Cohort two-year program is offered through CEHSP in close cooperation with Continuing Education. The M.Ed. Cohort Program is a group of students who progress together through the core courses. The M.Ed. cohorts on the Duluth campus as well as on limited locations around the state provide a customized quality program for practicing educators within a supportive network of faculty and professional colleagues.

Program requirements for each M.Ed. cohort are unique, adapting to the professional needs and requirements of specific educational districts, regions, and educators. Applications for admission to an M.Ed. cohort are due June 30 for fall. Contact the Continuing Education Office at UMD for more details (218-726-6797).

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 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 9 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 an approved concentration and have a notation placed on their diplomas and transcripts. An approved concentration requires at least 15 graduate credits.

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 Sylvan Learning Center. Call 1-800-GRE-CALL or 218-723-1494 to schedule an appointment.

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.

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

- A baccalaureate degree (B.A.A., B.A.S., B.F.A. in art education, or B.M. in music education) including a Minnesota Board of Teaching-approved 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 to initial licensure until they pass the PPST.
- Successful completion of other tests required by the Minnesota Board of Teaching.
- Students must apply to the Department of Education for admission to all teacher education programs. Students in art education, health education, music education, and physical education must also apply to the content area department.

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
Art education (See School of Fine Arts)
Early childhood studies
Elementary/middle school teacher education
Health education
Music education (See School of Fine Arts)
Physical education
Teaching communication arts/literature
Teaching earth and space sciences
Teaching French
Teaching German
Teaching life science
Teaching mathematics
Teaching physical sciences
Teaching social studies
Teaching Spanish

Additional Teacher Licensure Programs
Early childhood/special education (See Special Education)
Emotional behavioral disorders (See Special Education)
Learning disabilities (See Special Education)
Teaching English to Speakers of Other Languages (TESOL)
(See Secondary and K-12 Teacher Education)
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 based on criteria established by the Department of Education that are consistent with Minnesota policies as well as standards established by the National Council for Accreditation in Teacher Education (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. Students must submit a completed application, 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. 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 and demonstrate acceptable professional performance in their field experiences. To be eligible 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.

Exit Standards

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

Personal Liability Insurance

Students must have personal liability insurance while they are working in public school classrooms. This is usually obtained most economically with a student membership in Education Minnesota. Applications are available in Montague 120.

Transfer Students

Students who have completed part 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 upon completion of an approved teaching major program are available in the CEHSP Student Affairs Office.

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

Secondary and K-12 Teacher Licensure Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tr>
<td>EdSe 3204</td>
<td>General Instructional Methods</td>
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<td>EdSe 3205</td>
<td>Apprenticeship: Middle School</td>
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</tr>
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<td>EdSe 4100</td>
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<tr>
<td>EdSe 4400</td>
<td>Professional Development Seminar</td>
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</tr>
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<td>EdSe 4501</td>
<td>Educational Psychology</td>
<td>3</td>
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<td>EdSe 4600</td>
<td>Student Teaching</td>
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<tr>
<td>EdSe 5120</td>
<td>Philosophy and Organization of the Middle School</td>
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<td>Educ 1101</td>
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<td>Educ 3412</td>
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<tr>
<td>Educ 4381</td>
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<td>2</td>
</tr>
<tr>
<td>Educ 4500</td>
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<td>1</td>
</tr>
<tr>
<td>Hlth 3202</td>
<td>Drug Education</td>
<td>2</td>
</tr>
</tbody>
</table>

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

- Grades of C- or better in all courses in the teaching major(s) and minor(s)
- 2.50 GPA both overall and in major courses
- Completion of a minimum of 85 percent of teaching major courses
- 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 student teaching. Student teaching is normally done in the senior year.

Secondary teaching programs lead to licensure in the state of Minnesota in grades 5-12 in the following majors:
- Teaching communication arts/literature
- Teaching earth and space science
- Optional environmental education concentration
- Teaching life science
- Optional environmental education concentration
- Teaching mathematics
- Teaching physical science
  - Chemistry
  - Physics
- Teaching social studies
  - Anthropology
  - Economics
  - Geography
  - History
  - Political science
  - Psychology
  - Sociology

Kindergarten through grade 12 licensure majors include:
- Physical education
- School health education
- Teaching French
- Teaching German
- Teaching Spanish

Postbaccalaureate Contracts

CEHSP has a Postbaccalaureate Student Contract 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 contract also can be used by persons who 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 is 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.

License Application

Teaching license applications may be obtained from the CEHSP Student Affairs Office, 115 Bohannon Hall (218-726-7156). The completed application, required fees, evidence of passing scores on all tests required by the Board of Teaching, Federal Bureau of Investigation (FBI) background check, finger printing, and official transcripts 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.

Departments

Communication Sciences and Disorders (CSD)

Professor: Mark I. Mizuko (department head); Associate Professors: Faith C. Loven, Cindy S. Spillers; Assistant Professors: Kent Bronson, Amy Meredith; Clinic Coordinator: LaVonne Levar

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.

Education (Educ)

Professors: Helen L. Carlson, David A. McCarthy, Linda Miller-Cleary (Engl); Associate Professors: Francis A. Gulbrandsen, Nedra A. Hazareesingh, June E. Kreutzkampf, Bruce H. Munson, Thomas D. Peacock, Gwen Perun, Helen Rallis (department head), Mary Kay Rummel, Terrie M. Shannon; Assistant Professors: Manuel T. Barrera III, Linda L. Grover, Joyce Strand, Kay Wohlhuter
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.

Health, Physical Education, and Recreation (HPER)

Professor: Eugene S. Ley; Associate Professors: John R. Keener, Georgia L. Keeney, Edmond F. Lundstrom, Duane Millsagle, Mark E. Nierengarten (department head); Assistant Professors: Donald T. Collins, Kenneth Gilbertson, Morris Levy, Ladona Tornabene; Instructor: Jane Carlson

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

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.

Psychology

B.A.S.

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

The Department of Psychology offers the B.A.S. in psychology and a M.A. degree in counseling psychology (see Graduate School).

Degree and Licensure Programs

Coaching

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 (4)

CC 3116—Care and Prevention of Sport 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)

2 credits from CC 3170 through 3179

Hlth 1470*—Human Nutrition (3)

Hlth 1600—Basic First Aid (2)

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

** Physical education majors only.
Communication Sciences and Disorders (CSD)

B.A.S.
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 approval of the candidacy papers constitutes formal admission to the undergraduate program. To have candidacy papers approved, students must have completed at least 54, but not more than 70, semester credits and have a minimum overall GPA of 2.80. Students with 70 credits who have not filed candidacy papers will have a hold placed on their records and will not be able to register for classes.

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

Maintenance Standards
Undergraduates, with approved candidacy 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, Continuing Education, 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)
• Major requirements (81-87 credits): lower and upper division major requirements (73-79), 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 in the next column.

Required Courses
CSD 1100*—Phonetics (2)
CSD 2230*—Human Communication Disorders (3)
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)
CSD 3200—Articulation and Phonological Disorders (3)
CSD 3230—Diagnostic and Treatment Methods in Communication Disorders (2) course must be repeated (4)
CSD 4197—Clinical Practicum in Communication Disorders (3) course must be repeated (6)
CSD 4200—Introduction to Fluency Disorders (2)
CSD 4400—Hearing Disorders and Evaluation (3)
CSD 4197—Clinical Practicum in Communication Disorders (3)

Required Courses From Other Programs
Biol 1011*—General Biology I (5)
or Biol 1001*—Biology and Society (4)
Comm 1112*—Public Speaking
or Comm 1222*—Interpersonal Communication (3)
Comp 1120*—College Writing (3)
Hlth 2040—Principles of Human Physiology (3)
or Phsl 3011—General Physiology (4)
Ling 1811*—Introduction to Language (3)
Math Requirement—Contingent on results of math placement tests
Phys 1001*—Introduction to Physics I (5)
or Phys 1011—Ideas in Physics (4)
Psy 1003*—General Psychology (4)
Psy 2021*—Developmental Psychology (4)
Psy 3020—Statistical Methods (4)
Social science course (3-5) from approved departmental list

Electives (8 cr)**
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 5005—American Sign Language Studies V (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
ECh 5010—Programs for Education of Young Children: Birth-Age Eight (4)
ECh 5050—Observing and Guiding Behavior: Birth-Age Eight (4)
EduC 5340—Interacting With Diverse Families (3)
EduC 5650—Families in Crisis (3)
EduC 5381—Teaching American Indian Students (2)
EdSe 4100—Human Relations in Classrooms (2)
EdSe 5100—Human Rights in Classrooms (2)
SpEd 5103—Infants and Toddlers With Special Needs (4)
SpEd 5105—Young Children With Special Needs: Ages 3-8 (4)
SpEd 5381—Behavior Management Strategies (4)
SpEd 5382—Advanced Theory and Practice in Emotional/Behavioral Disorders (4)
SpEd 5433—Foundations in Special Education (4)
SpEd 5435—Parent and Professional Communication and Collaboration (4)
* 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 any two of the following courses to fulfill the elective requirement. Other education courses may be used with advisor’s approval.

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)
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 through 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 through 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 students’ 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 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 sophomore year. A student transferring from another institution must apply for admission and may be admitted with advanced standing. Decisions regarding transfer of credits are made on an individual basis.

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 fifth Friday of the semester before student teaching. Applications are available in the Field Experience Office. 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; acceptable performance in field experiences, including student teaching; and successful completion of all tests required by the Board of 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)
- Major requirements (95-97 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)
ECh 1000—Human Development (3)
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 (67-68)
Courses taken before the block courses (6-7)
Art 3806—Early Childhood Art (1)
Comm 3210—Group Communication (4)
Psy 3211—Group Dynamics (3)
Music 3603—Music for Early Childhood (1)
PE 3750—Movement Experience for the Young Child (1)

Block 1 (17)
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)
ECh 4400—Professional Development Seminar (1)
SpEd 3103—Infants and Toddlers With Special Needs (4)

Block 2 (15)
ECh 3020—Literacy, Literature and Mathematics: Birth-Age Eight (5)
ECh 3030—Inquiry Social Studies and Science Learning: Birth-Age Eight (5)
Elementary/Middle School Teacher Education

**Faculty:** Hazareesingh, Munson, Perun, 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 for elementary/middle school.

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.

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

**Elementary/Middle School Teacher Education**

**Faculties:** Hazareesingh, Munson, Perun, 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 for elementary/middle school.

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 between ages 5 and 13 in a supervised setting
- Three references from people who have observed the applicant working with groups of children
- Completion of 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 second 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. Students are responsible for scheduling an interview to document fulfillment of all prerequisites, including completion of all elementary major courses except for ElEd 4400, Educ 4500 and ElEd 4600, which are taken concurrently.

Assignment to schools for the professional semester is made by the program faculty 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, have acceptable ratings from both the classroom and University supervisors for all field experiences, including student teaching performance, and complete a portfolio documenting competence in the Minnesota Standards of Effective Practice. Students must pass all tests required by the Minnesota Board of Teaching.

This program prepares students 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:

- Liberal education requirements. Specific courses are required in the following categories:
  
  Category 1: Comp 1120—College Writing (3)
  Category 2: A course with a Math or Stat designator
  Category 3: Comm 1112—Public Speaking (3) is recommended
  Category 6: At least one course (elementary/middle school education majors must complete a course in communications in this category)
  Category 7: Educ 1101—Education in Modern Society (3)
  Category 9: At least one course—elementary/middle school education majors must choose from:
    
  Category 10: Art 1002—Introduction to Art (3)

- Advanced writing requirement: Comp 3140—Advanced Writing: Human Services (3)

- Major requirements
  
  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 communication arts/literature (27 credits)
  Teaching French (elementary/middle school) (32 credits)
  Teaching German (elementary/middle school) (32 credits)
  Teaching mathematics (elementary/middle school) (21-23 credits)
  Teaching science (elementary/middle school) (22-26 credits)
  Teaching social studies (elementary/middle school) (25 credits)
  Teaching Spanish (elementary/middle school) (31 credits)
Requirements for each of the above minors are listed following the requirements for the major below.

**Required Courses**

**Lower Division (20)**

The following courses must be completed and final grades received before applying for admission to the upper division major.

- Art 1002*—Introduction to Art (3)
- Educ 1000—Human Development (3)
- Educ 1100*—Human Diversity (3)
- Educ 1101*—Education in Modern Society (3)
- ElEd 1010—Introduction to Elementary Education (3)
- 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 (19)**

- Art 3810—Art in Elementary Education (2)
- Comp 3140—Advanced Writing: Human Services (3)
- 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 or Hlth 3202—Drug Education (2)
- Mu 3601—Elementary School Music Teaching (2)
- PE 3126—Elementary School Physical Education (2)

**Block I—** *(all must be taken concurrently) (17)*

- ElEd 3113—Learning Environments and Diverse Learning Communities (4)
- ElEd 3325—Language and Literacy (4)
- ElEd 3331—Children’s Literature and Integrated Creative Arts (4)
- ElEd 3355—Critical Thinking: Elementary Mathematics (4)
- ElEd 4400—Professional Development Seminar (1)

**Block II—** *(all must be taken concurrently) (17)*

- ElEd 4344—Teaching Science and Environmental Education (4)
- ElEd 4345—Instructional Strategies, Assessment, and Management (4)
- ElEd 4366—Teaching Social Studies and Environmental Education (4)
- ElEd 4400—Professional Development Seminar (1)
- SpEd 5310—Adapting for Diverse Learners in General Education Settings (4)

**Block III—** *(all must be taken concurrently) (14)*

- Educ 4500—Professional Issues in Teaching (1)
- ElEd 4400—Professional Development Seminar (1)
- ElEd 4600—Student Teaching (12)

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

**Exit Standards**

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

**Elementary/Middle School Minors**

Students with a major in elementary/middle school education who complete any of the following minors will be licensed to teach in that area from kindergarten through grade eight.

**Teaching Communication Arts/Literature Minor Requirements (27)**

- EdSe 5215—Teaching Reading and Literature: Grades 5-12 (5)
- Engl 1582*—Introduction to World Literatures (3)
- Engl 3501—British Literature I (4)
- Engl 3563—American Literature I (4)
- Engl 3564—American Literature II (4)
- Engl 5902—Teaching Language, Cognition, and Writing (4)
- Ling 1811*—Introduction to Language (3)

**Teaching French Minor Requirements (32)**

- 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)

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

**Teaching German Minor Requirements (32)**

- 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.

**Teaching Mathematics Minor Requirements (21-23)**

Choose two of the following:

- Math 1160*—Finite Mathematics and Introduction to Calculus (5)
- Math 1250*—Precalculus Analysis (4)
- Math 1290*—Calculus for the Natural Sciences (5)
- Math 1296*—Calculus I (5)
- Math 1297—Calculus II (5)
Choose two of the following statistics courses:
Stat 1411*—Introduction to Statistics (3)
Stat 2411*—Statistical Methods (3)
Stat 3611—Introduction to Probability and Statistics (4)

Complete the following courses:
Edu 4226—Geometry for Teachers Grades 5-8 (3)
Edu 4227—Number Theory for Teachers Grades 5-8 (3)

Teaching Science Minor Requirements (22-26)
At least one of the following sequences (8-10):
Biol 1011-1012—General Biology I-II (10)
or
Chem 1113*-1114—Introduction to General, Organic, Biological Chemistry (10)
or
Chem 1151*-1152—General Chemistry I-II (10)
or
Phys 1001*-1002—Introduction to Physics I-II (10)
or
Phys 1201*-1202—Mechanics, Heat, Electricity (8)

Complete the following courses:
Ast 1040*—Introductory Astronomy (3)
Biol 1001*—Biology and Society (4) (not needed if Biol sequence was taken)
Chem 1102*—Aspects of Chemistry (3) (not needed if Chem sequence was taken)
Educ 4234—Science, Technology, and Society (3)
Phys 1011*—Ideas in Physics (3) (not needed if Physics sequence was taken)

Teaching Social Studies Minor Requirements (26)
Econ 1003*—Economics and Society
or
Econ 1022*—Principles of Economics: Macro
or
Econ 1023*—Principles of Economics: Micro (3)
Educ 4234—Science, Technology, and Society (3)
Geog 1202*—World Regional Geography
or
Geog 1304*—Human Geography (3)
Geog 1414*—Physical Geography (4)
Hist 1304*—U.S. History Part I: 1607-1877 (3)
Hist 1305*—U.S. History Part II: 1865-Present (3)
Pol 1011*—American Government and Politics (3)
Soc 1101*—Introduction to Sociology (4)

Teaching Spanish Minor Requirements (31)
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.

Exercise Science
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 clinical and non-clinical 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
Please refer to CEHSP admission requirements. All transferring students must meet with the exercise science faculty coordinator before transfer into the major will be considered. Admittance to certain concentrations and degrees may be regulated to meet accreditation standards.

Degree Candidacy
Students are admitted to exercise science as “pre-majors.” Degree candidacy is contingent upon all of the following: (1) completing Biol 1011, Comp 1120, Chem 1113 or 1151, Hlth 1470, 2030, 2040, Math 1160 or higher, Phys 1001, and Psy 1003; (2) being within one semester of completing all University liberal education requirements; (3) academic adviser's approval of the specific courses to meet the concentration requirements. Such courses are taken in addition to the core courses and are specific to each exercise science concentration.

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

*Credits and GPA are defined as cumulative GPA and include all credits and GPA points on the student's record, including those transferred from other programs and institutions.
Maintenance Standards
To continue as an exercise science major or pre-major, students must make satisfactory academic progress (as outlined above) and demonstrate acceptable professional performance in their classroom, laboratory, research, and internship experiences. Students who have been admitted to the major must maintain a GPA of 2.50. Majors whose GPA falls below 2.50 are placed on department academic probation.

Department Academic Probation
Students placed on department academic probation with less than 60 credits must raise GPAs to the minimum values listed above under “Academic Progress.” Majors or pre-majors who have earned more than 60 credits have one additional semester (including Continuing Education and summer school) to raise their GPA to 2.50. Students failing to meet any listed GPA standard will be permanently dismissed from the degree program. Students dismissed after being placed on department academic probation cannot complete their undergraduate degree in exercise science at UMD. Alternatives to the established probation and dismissal procedures may be established by department action on a case-by-case basis.

Degree Requirements
• Core degree course requirements
• Liberal education and composition requirements
• Final project requirement
• Concentration requirement

Required Core Courses (all concentrations)
PEP 3020—Motor Learning (2)
PEP 3030—Human Biomechanics (4)
PEP 3040—Exercise Physiology (4)
PEP 3400—Exercise Testing and Prescription (3)
PEP 3470—Sports Nutrition (3)
PEP 4996—Internship (3-12)
or
HPER 4999—Senior Project (6-12)

Required Courses From Other Programs
Biol 1011*—General Biology I (5)
Hlth 1470*—Human Nutrition (3)
Hlth 2030—Applied Human Anatomy (4)
Hlth 2040—Principles of Human Physiology (3)
Math 1160*—Finite Mathematics and Introduction to Calculus (5)
Phys 1001*—Introduction to Physics I (5)
Psy 1003*—General Psychology (4)
Psy 3020—Statistical Methods (4)

Note: Students may substitute a higher numbered course with the same designator for the required courses above, with approval of their academic adviser. (For example, Phys 1011*—Ideas in Physics could be substituted for Phys 1001*—Introduction to Physics I.)

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

Concentration
Students must select one of the 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 (HPER 4999) 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.

Athletic Training Concentration
Students completing this degree after Dec. 31, 2003 will not be eligible for the N.A.T.A. certification examination without completing additional graduate coursework in a Commission on Accreditation of Allied Health Education Programs (CAAHEP) approved graduate program.

Admission
The number of students admitted to the athletic training concentration is limited by CAAHEP accreditation standards. Applicants must meet all UMD application requirements and must also have an ACT score of at least 21. Accepted students must meet with the athletic training program director as a part of the campus orientation session and must enroll in PEP 2610 and Biol 1011 for the fall semester of their freshman year. Pre-majors must take PEP 2620, Psy 1003, and Chem 1102 in the spring semester of their freshman year. Students who fulfill these course requirements, meet requirements performing observation, and make normal academic progress will be allowed to apply to continue as a pre-major in their second year. Applications for continuance are due by June 15 following the end of the freshman year.

Students seeking to transfer into the concentration from other colleges at UMD or from other institutions must have a minimum of 30 credits completed with a cumulative GPA of 2.50. These 30 credits must include courses
equivalent to three of the following five courses: Biol 1011, Phys 1001, Chem 1102, Math 1160 and Psy 1003. Accepted transfer students are considered pre-majors until they have completed all of the five preceding courses as well as PEP 2610 and 2620. When these courses are completed transferring pre-majors may compete with other pre-majors for continuation in the year program.

Candidacy
The Written Criteria for Admittance to Athletic Training Candidacy specifies the number and type of observational hours that must be completed; number and type of letters of recommendation required; number and type of interviews to be conducted; and type of written application required. Admittance to exercise science degree candidacy for this concentration is competitive and is based on cumulative GPA, major course GPA, and review and ranking of candidates by the exercise science program coordinator and designated departmental members.

Required Courses
Chem 1102*—Aspects of Chemistry (3-4)
Hlth 1100*—Health and Wellness Strategies for Life (3)
Math 1160*—Finite Mathematics and Introduction to Calculus (5)
PEP 2610—Introduction to Athletic Training (2)
PEP 2620—Essentials of Athletic Training and Emergency Care (2)
PEP 3021—Exercise Adherence (2)
PEP 3600—Techniques of Athletic Training I (3)
PEP 3610—Therapeutic Exercise (3)
PEP 3620—Techniques of Athletic Training II (4)
PEP 3630—Administrative Aspects of Athletic Training (2)
PEP 3632—Advanced Athletic Training Techniques (2)
PEP 3640—Principles of Therapeutic Modalities (3)
PEP 3650—Administration of Athletic Training (3)
PEP 3997—Athletic Training Practicum (3)
PEP 4996—Internship (4)
* Courses that may be used to fulfill UMD liberal education program requirements.

Approved Additional Required Courses (22)
The academic adviser will help students select additional courses with PEP and related designators that apply to the concentration’s focus. The adviser must approve registration for any courses that are to be counted as a part of the concentration before the student registers for the course. 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, Hlth, Psy, or Rec designators.

Exercise and Sport 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 clinical exercise physiologist 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
• Liberal education and composition requirements
• Final project requirement

Required Courses
CC 3116—Care and Prevention of Sport Injuries (3)
Chem 1113*—Introduction to General, Organic, and Biological Chemistry I (5)
HPER 3100—Risk Management (2)
PEP 3021—Exercise Adherence (2)
PEP 3402—Principles of Strength and Conditioning Programs (3)
PEP 3500—Facilities Management (3)
* Courses that may be used to fulfill UMD liberal education program requirements.

Required Courses
Chem 1102*—Aspects of Chemistry (3-4)
Hlth 1100*—Health and Wellness Strategies for Life (3)
Math 1160*—Finite Mathematics and Introduction to Calculus (5)
PEP 2610—Introduction to Athletic Training (2)
PEP 2620—Essentials of Athletic Training and Emergency Care (2)
PEP 3021—Exercise Adherence (2)
PEP 3600—Techniques of Athletic Training I (3)
PEP 3610—Therapeutic Exercise (3)
PEP 3620—Techniques of Athletic Training II (4)
PEP 3630—Administrative Aspects of Athletic Training (2)
PEP 3632—Advanced Athletic Training Techniques (2)
PEP 3640—Principles of Therapeutic Modalities (3)
PEP 3650—Administration of Athletic Training (3)
PEP 3997—Athletic Training Practicum (3)
PEP 4996—Internship (4)
* Courses that may be used to fulfill UMD liberal education program requirements.

Health and Fitness Concentration
The bachelor of applied science (B.A.S.) in exercise science with a concentration in health fitness prepares students for professional involvement with clients in clinical, commercial, corporate, and service agency fitness and health programs. The curriculum prepares students to demonstrate the knowledge, skills, and abilities outlined by the American College of Sports Medicine (ACSM) for professionals in clinical and health-related programs. Completion of the degree program does not ensure ACSM certification.
Required Courses
Chem 1151*—General Chemistry I (5)
PEP 3021—Exercise Adherence (2)
or  PEP 3404—Clinical Exercise Physiology (2)
or  PEP 5301—Techniques and Research in Computerized Videography (3)
Pep 5700—Research in Exercise Science (3)

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

Approved Additional Required Courses (28-29)
The academic adviser will help students select additional courses with PEP and related designators that apply to the concentration’s focus. The adviser must approve registration for any courses that are to be counted as a part of the concentration before the student registers for the course. 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.

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 athletic training, health fitness, 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
- Liberal education and composition requirements
- Final project requirement

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.

Family Education—Parent Education
Completion of the 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 (4)
or  Psy 3211—Group Dynamics (3)
ECh 4011—Parent Education (4)
ECh 4251—Parenting (3)
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)

* 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.

Health Education (Hlth)
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 Option

Admission Requirements and Academic Progress

Pre-community health majors who complete 45 credits with a GPA of 2.50 or higher are admitted to upper division. Students whose GPA drops below the 2.50 minimum GPA required to graduate are monitored by faculty advisers and/or the coordinator of the program. Students whose GPA is below the minimum for two consecutive semesters may be dismissed from the major, as it is highly unlikely they will meet the standard for graduation from the program.

Maintenance Standards

To continue as a health education—community option 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 option include:

- Liberal education requirements
- 2.50 GPA both overall and in major courses
- Advanced writing requirement: Comp 3140—Advanced Writing: Human Services (3) 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) and courses required from other programs (27 credits)

The community health concentration (21 credits or more) 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 (17)
Hlth 1100*—Health and Wellness: Strategies for Life (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 (3)

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 Science (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)

A minor or 6 credits of approved electives

Required Courses From Other Programs (28)
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 (4)

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

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 Option

Admission Requirements and Academic Progress
Pre-school health majors must maintain a 2.50 GPA overall and in the major for admission to the teacher education program and for graduation. All pre-majors whose GPA falls below 2.50 are monitored by faculty advisers and the program coordinator.

Admission requirements for school health are detailed in the Secondary and K-12 Teacher Education section of this catalog.

Maintenance Standards
To continue as a health education—school option 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 option 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 option include:

- Liberal education requirements
- Advanced writing requirement: Comp 3140—Advanced Writing: Human Services (3) or other approved advanced composition course
- 2.50 GPA both overall and in major courses
- Major requirements (106 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) and courses required from other programs (31 credits)

The school health education concentration (35 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 that department.

Required Courses

Lower Division (17)
- Hlth 1100—Health and Wellness: Strategies for Life (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 (3)

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 Science (3)

School Health Education Concentration (35)
- EdSe 3204—General Instructional Methods (4)
- EdSe 3205—Apprenticeship: Middle School (2)
- EdSe 3206—Apprenticeship: Secondary School (2)
- EdSe 4400—Professional Development Seminar (1)
- EdSe 4501—Educational Psychology (3)
- EdSe 4600—Student Teaching (12)
- EdSe 5120—Philosophy and Organization of the Middle School (2)
- Educ 3412—The Computer in Education (4)
- Educ 4381—Teaching American Indian Students (2)
- Educ 4500—Professional Issues in Teaching (1)
- Hlth 5161—School Health Programs: Early Childhood Through Middle School (2)

Required Courses From Other Programs (31)
- 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 (4)
* Courses that may be used to fulfill UMD liberal education program requirements.

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

Required Courses

Lower Division (25)
Hlth 1100*—Health and Wellness: Strategies for Life (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 (3)
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 Science (3)
* Courses that may be used to fulfill UMD liberal education program requirements.

Physical Education

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 monitored by academic advisers. Students with two consecutive semesters below the minimum GPA requirements may be dismissed from the program.

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:

- Liberal education requirements (35 credits)
- 31 lower division credits within the major
- Advanced writing requirement: Comp 3140—Advanced Writing: Human Services (3)
- A 2.50 GPA both overall and within major courses
- Major requirements (84-90 credits)
  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 (31)
Hlth 1100*—Health and Wellness: Strategies for Life (3)
Hlth 1600—Basic First Aid (2)
Hlth 2030**—Applied Human Anatomy (4)
Hlth 2040—Principles of Human Physiology (3)
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 Dancing
or PEP 1302—Teaching Folk Dance (1)
PEP 1500—Teaching Cross Country Skiing
or PEP 1504—Teaching Skating (1)
PEP 1600—Teaching 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)
** Biol 1761—Human Anatomy (4) may be substituted for Hlth 2030—Applied Human Anatomy (4)

Upper Division (29)
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 (4)
PEP 3040—Exercise Physiology (4)
PEP 3700—Measurement and Evaluation in Physical Education (3)
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 (24-30)
Biol 1011*—General Biology I (5)
or Biol 1001*—Biology and Society (4)
Chem 1102*—Aspects of Chemistry (3)
Comp 1120*—College Writing (3)
Educ 1101*—Education and Modern Society (3)
Math 1160*—Finite Mathematics and Introduction to Calculus (5)
or Equivalent on Math Placement Examination
Psy 1003*—General Psychology (4)
Psy 2021*—Developmental Psychology (4)
Soc 1101*—Introduction to Sociology (4)

Upper Division (31)
EdSe 3205—Apprenticeship: Middle School (2)
EdSe 3206—Apprenticeship: Secondary School (2)
EdSe 4100—Human Relations in Classrooms (2)
EdSe 4400—Professional Development Seminar (1)
EdSe 4501—Educational Psychology (3)
EdSe 4600—Student Teaching (6)
EdSe 5120—Philosophy and Organization of the Middle School (2)
Educ 3412—The Computer in Education (4)
Educ 4381—Teaching American Indian Students (2)
Educ 4500—Professional Issues in Teaching (1)
ELEd 4600—Student Teaching (6)
* Courses that may be used to fulfill UMD liberal education program requirements.

**Exit Standards**

Students must complete a full semester of student teaching in a public school setting. Student teaching is divided equally between elementary (ElEd 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)**

**B.A.S.**

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:

- Liberal education requirements. Biol 1001—Biology and Society (4) or Biol 1011—General Biology must be used to fulfill Category 4.
- 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
- 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 Behavior (4)
- Psy 3621—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)
Colleges and Schools

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 2000 or higher (20-24)
* Courses that may be used to fulfill UMD liberal education program requirements.

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 2xxx or higher (10)
At least 8 credits of the minor must be completed in residence at UMD.
* Courses that may be used to fulfill UMD liberal education program requirements.

Recreation—Outdoor Education
B.A.S.
The bachelor of applied science (B.A.S.) in recreation prepares students for professional careers in outdoor education allowing them to work in nonformal outdoor education settings such as nature centers; city, state, or national parks; and college outdoor programs, or for commercial agencies. Core components include program planning and delivery, education methods, physical skills development, management, facilities coordination, evaluation, and principles of recreation. The recreation major is a four-year curriculum including one full semester of field placement in 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/or 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.

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

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)
- GPA of 2.50 both overall and in major courses
- Major requirements:
  - Lower and upper division courses in outdoor education (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
Biol 1011*—General Biology (5)
Comm 1112*—Public Speaking (3)
Psy 1003*—General Psychology (4)
Hlth 3620—Wilderness First Response (3)
Hlth 1700—Advanced First Aid (3)
Hlth 2030—Applied Human Anatomy (4)
Hlth 2040—Principles of Human Physiology (3)
PE 1xxx—Electives (2)
PEP 1xxx—Electives (2)
PEP 1507—Electives (2)
Rec 1000—Introduction to Recreation (4)
Rec 1203—Outdoor Skills I (2)
Rec 1204—Outdoor Skills II (2)

Upper Division Core (33)
Educ 4163—Outdoor Education Methods (3)
Educ 5236—Environmental Education for Teachers (2)
HPER 3100—Risk Management (2)
HPER 3200—Research and Evaluation in Health Science (3)
Psy 3524—Basic Helping Skills (4)
Rec 2300—Recreation Programming (3)
Rec 3310—Recreation Leadership (2)
Rec 3341—Field Interpreting Techniques I (3)
Rec 3342—Field Interpreting Techniques II (3)
Rec 4315—Recreation Management (3)
Rec 4996—Recreation Internship (12)

Approved Electives (23)
Biol xxxx—field biology courses
Educ 4601—Wilderness Philosophy (2)
Educ 5165—Theories and Models in Outdoor Education (2)
Education and Human Service Professions

Educ 5991—Independent Study (Environmental Issues Investigation) (3)
Geol 3xxx or 5xxx—field geology courses
HPER 3000—Organization and Administration of Health, Physical Education, and Recreation (3)
PE 3470—Sports Nutrition (3)
Pep 3020—Motor Learning (2)
PEP 3030—Human Biomechanics (4)
PPEP 3040—Exercise Physiology (4)
Psy 3211—Group Dynamics (3)
Rec 3320—Recreational Sports (3)
Rec 3327—Life Fitness Programs and Events Management (3)
Rec 3330—Outdoor Recreation (3)
Rec 3331—Organization of Environmental Education Centers (2)
Rec 4410—Ropes Course Management (3)
Rec 4991—Independent Study (1-4)
Rec 4992—Readings in Recreation (1-4)
Rec 4998—Recreation Seminar (1-3)
Rec 5320—G.I.S. Management for the Recreation Professional (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. All required coursework must be completed prior to enrollment in Rec 4996—Internship. In addition, no grades lower than C- in courses required for the major are allowed.

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 (23)
Lower Division Core (11)
Hlth 3620—Wilderness First Response (3)
or Hlth 1700—Advanced First Aid (3)
Pep 1507—Teaching Outdoor Skills (2)
Pep 1xxx electives (2)
Rec 1000—Introduction to Recreation (4)
Upper Division Core (12)
Rec 2300—Recreation Programming (3)
Rec 4997—Recreation Practicum (3)
HPER 3200—Research and Evaluation in Health Science (3)
Approved upper division Rec electives (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 Secondary and K-12 Teacher Education.

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) or Comp 3140—Advanced Writing: Human Services (3) or Engl 3115—Writing Fiction (4) or Engl 3121—Writing Poetry (4) or Engl 5116—Advanced Writing of Fiction (4) or Engl 5122—Advanced Writing of Poetry (4)
- 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 (84)
British period course (4)
Comm 5300—Teaching Methods in Communication (3)
Educ 3412—Computers in Education (4)
Educ 4381—Teaching American Indian Students (2)
Educ 4500—Professional Issues in Teaching (1)
EdSe 3204—General Instructional Methods (4)
EdSe 3205—Apprenticeship: Middle School (2)
EdSe 3206—Apprenticeship: Secondary School (2)
EdSe 4100—Human Relations in Classrooms (2)
EdSe 4400—Professional Development Seminar (1)
EdSe 4501—Educational Psychology (3)
EdSe 4600—Student Teaching (12)
EdSe 5120—Philosophy and Organization the Middle School (2)
EdSe 5215—Teaching Reading and Literature: Grades 5-12 (5)
Engl 3501—British Literature I (4)
Engl 3563—American Literature I (4)
Colleges and Schools

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 (4)
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.

Teaching Earth and Space Sciences

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

Students have the option of also completing the environmental education concentration with this major. This concentration enhances the students’ major by integrating environmental education into formal (pre-K-12) as well as non-formal education settings such as parks and nature centers. 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 admission requirements under Secondary and K-12 Teacher Education.

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

- Liberal education requirements
- Advanced writing requirements: Comp 3140—Advanced Writing: Human Services (3)
- Major requirements (113 credits): Lower division coursework (57 credits), upper division coursework (51 credits)

Required Courses

Lower Division (57)
- Ast 1040—Introductory Astronomy (3)
- 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 (4)
- Geol 2110—Earth History (3)
- Geol 2300—Basic Mineralogy and Petrology (4)
- Geol 2350*—Earth’s Resources (3)
- Geol 2610*—Oceanography (3)
- Math 1250*—Precalculus Analysis (4)
- Phys 1001*—Introduction to Physics I (5)
- Phys 1002—Introduction to Physics II (5)

Upper Division (51)
- Comp 3140—Advanced Writing: Human Services or Comp 3150—Advanced Writing: Science (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 (1)
- EdSe 3204—General Instructional Methods (4)
- 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 4400—Professional Development Seminar (1)
- EdSe 4501—Educational Psychology (3)
- EdSe 4600—Student Teaching (12)
- EdSe 5120—Philosophy and Organization of the Middle School (2)
- Geog 3401—Weather and Climate (3)
- Geol 4110—Advanced Earth Science for Teachers (2)
- Hlth 3202—Drug Education (2)
* Courses that may be used to fulfill UMD liberal education program requirements.

Optional Environmental Education Concentration Requirements
- Art 1002*—Introduction to Art or Art 1600—Photography I (3)
- Educ 4163—Outdoor Education Methods (2)
- Educ 4601—Wilderness Philosophy (2)
- Educ 5236—Environmental Education for Teachers (2)
- Hlth 1700—Advanced First Aid (3)
- Hlth 3620—Wilderness First Response (3)
- Rec 1203—Outdoor Skills I (2)
- Rec 1204—Outdoor Skills II (2)
- Rec 3310—Recreation Leadership (2)
- Rec 3341—Field Interpretive Techniques I (3)
- Rec 3342—Field Interpretive Techniques II (3)
- Rec 4997—Practicum (3)
Three credits (3) from the following courses:
PE 1512*—Fishing Skills (1)
PE 2240—Lifeguarding Today (1)
PEP 1505—Teaching Whitewater Kayaking (1)
PEP 1506—Teaching Sea Kayaking (1)
PEP 1507—Teaching Outdoor Skills (2)
PEP 1508—Teaching Rock Climbing (1)
PEP 1509—Teaching Canoeing (1)
PEP 1520—Teaching Alpine Skiing (1)

Seven credits (7) from the following:
Biol 2803*—Issues in Global Ecology (3)
Biol 3603—Plant Taxonomy (3)
Biol 4701—Invertebrate Biology (3)
Biol 4731—Entomology (3)
Biol 4761—Ichthyology (3)
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 semester of student teaching and must meet other competencies required for Minnesota teacher licensure.

Teaching English to Speakers of Other Languages (TESOL)

This program (27-30 credits) is for students intending to seek licensure to teach English to speakers of other languages (TESOL) in kindergarten to grade twelve. This licensure is an endorsement that can be added on to early childhood, elementary, or secondary licensure. Students who do not already hold a current teaching license must complete additional educational coursework, including a full semester of student teaching. See the Department of Education for further details.

Admission Requirements
See Admission Requirements description under Secondary and K-12 Teacher Education.

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)
ElEd 4650—Student Teaching in Individual Subjects K-8 (6)
or EdSe 4600—Student Teaching (6)
Engl 5811—Introduction to Modern English (4)
or Ling 1811*—Introduction to Language (3)
Ling 3195—Special Topics in Linguistics
or Psy 3661—Psychology of Language (3)
Ling 5802—Applied Linguistics (4)

Students who already are licensed at the secondary level will complete:
ElEd 3331—Children’s Literature and Integrated Creative Arts (4)

Students who already are licensed at the early childhood or elementary level will complete ONE of the following courses:
EdSe 5215—Teaching Reading and Literature, Grades 5-12 (5)
or Engl 5902—Teaching Language, Cognition, and Writing (4)
or Engl 5922—Teaching Literature and Communication (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 (6 credits) and demonstrate other competencies required for Minnesota teacher licensure.

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 Secondary and K-12 Teacher Education.

Degree Requirements
Requirements for the B.A.A. in teaching French include:
• Liberal education requirements. Students are encouraged to take the following: Engl 1907—Introduction to Literature (Category 9), Psy 2021—Developmental Psychology, and Comm 2929—Intercultural Communication (Category 6). 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)
Colleges and Schools

• Major requirements (85 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 Lang 4044.

  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 (62)
  Educ 3412—The Computer in Education (4)
  Educ 4381—Teaching American Indian Students (2)
  Educ 4500—Professional Issues in Teaching (1)
  EdSe 3204—General Instructional Methods (4)
  EdSe 3205—Apprenticeship: Middle School (2)
  or ElEd 3425—Collateral Fields: Field Experiences (2)
  EdSe 3206—Apprenticeship: Secondary School (2)
  EdSe 4100—Human Relations in Classrooms (2)
  EdSe 4400—Professional Development Seminar (1)
  EdSe 4600—Student Teaching (12)
  EdSe 5120—Philosophy and Organization of Middle Schools (2)
  ElEd 4345—Instructional Strategies, Assessment, and Management (4)
  Hlth 3202—Drug Education (2)
  Lang 4044—Language Teaching Methods (4)
  Upper division French courses (16), 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.

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 Secondary and K-12 Teacher Education.

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

• Liberal education requirements. Students are encouraged to take the following: Engl 1907—Introduction to Literature (Category 9), Psy 2021—Developmental Psychology, and Comm 2929—Intercultural Communication (Category 6). 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)
• Major requirements (85 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 Lang 4044.

**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 (62)**
- Educ 3412—The Computer in Education (4)
- Educ 4381—Teaching American Indian Students (2)
- Educ 4500—Professional Issues in Teaching (1)
- EdSe 3204—General Instructional Methods (4)
- EdSe 3205—Apprenticeship: Middle School (2)
  or  ElEd 3425—Collateral Fields: Field Experiences (2)
- EdSe 3206—Apprenticeship: Secondary School (2)
- EdSe 4100—Human Relations in Classrooms (2)
- EdSe 4400—Professional Development Seminar (1)
- EdSe 4600—Student Teaching (12)
- EdSe 5120—Philosophy and Organization of Middle School (2)
- ElEd 4345—Instructional Strategies, Assessment, and Management (4)
- Hlth 3202—Drug Education (2)
- Lang 4044—Language Teaching Methods (4)
- Upper division German courses (16), 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.

**Teaching Life Science**

**B.A.S.**

The B.A.S. degree in teaching life science is offered by the Department of Education in conjunction with the Department of Biology. This major (115 credits) prepares students to teach all science areas in grades 5-8 and to teach life science in grades 9 through 12.

Students have the option of also completing the environmental education concentration with this major. The B.A.S. in teaching life science with the environmental education concentration is offered by the Department of Education in conjunction with the Department of Health, Physical Education, and Recreation. This concentration enhances the students’ major by integrating environmental education into formal (pre-K-12) as well as non-formal education settings such as parks and nature centers. This concentration must be taken in conjunction with the teaching life science or teaching earth and space science majors. The concentration is noted on the students’ diploma.

**Admission Requirements**

See admissions requirements under Secondary and K-12 Teacher Education.

**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) or Comp 3150—Advanced Writing: Science
- Major requirements (113 credits): Lower division coursework (59 credits), upper division coursework (54 credits)

**Required Courses**

**Lower Division (59)**
- Ast 1040*—Introductory Astronomy (3)
- 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)
- Biol 2801—General Ecology (3)
Biol 2802—Ecology Laboratory (2)
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 (4)
Math 1250*—Precalculus Analysis (4)
Phys 1001*—Introduction to Physics I (5)
Phys 1002—Introduction to Physics II (5)

Upper Division (54)
Biol 4801—Evolution (2)
Comp 3140—Advanced Writing: Human Services (3)
or Comp 3150—Advanced Writing: Science (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 (1)
EdSe 3204—General Instructional Methods (4)
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 4400—Professional Development Seminar (1)
EdSe 4501—Educational Psychology (3)
EdSe 4600—Student Teaching (12)
EdSe 5120—Philosophy and Organization of Middle Schools (2)
Geol 4110—Advanced Earth Science for Teachers (2)
Phsl 3011—General Physiology (4)
or Phsl 5601—Physiology of Organic Systems I (4)

Optional Environmental Education Concentration Requirements
Art 1002*—Introduction to Art
or Art 1600—Photography I (3)
Educ 4163—Outdoor Education Methods (3)
Educ 4601—Wilderness Philosophy (2)
Educ 5236—Environmental Education for Teachers (2)
Hlth 1700—Advanced First Aid (3)
or Hlth 3620—Wilderness First Response (3)
Rec 1203—Outdoor Skills I (2)
Rec 1204—Outdoor Skills II (2)
Rec 3310—Recreation Leadership (2)
Rec 3341—Field Interpretive Techniques I (3)
Rec 3342—Field Interpretive Techniques II (3)
Rec 4997—Practicum (3)

Three credits (3) from the following courses:
PE 1512*—Fishing Skills (1)
PE 2240—Lifeguarding Today (1)
PEP 1505—Teaching Whitewater Kayaking (1)
PEP 1506—Teaching Sea Kayaking (1)
PEP 1507—Teaching Outdoor Skills (2)
PEP 1508—Teaching Rock Climbing (1)
PEP 1509—Teaching Canoeing (1)
PEP 1520—Teaching Alpine Skiing (1)

Seven credits (7) from the following:
Biol 2803*—Issues in Global Ecology (3)
Biol 3603—Plant Taxonomy (3)
Biol 4701—Invertebrate Biology (3)
Biol 4731—Entomology (3)
Biol 4761—Ichthyology (3)
Biol 4763—Ornithology (3)
Biol 5833—Stream Ecology (4)
Biol 5861—Lake Ecology (3)
Geog 3401—Weather and Climate (3)
Geol 5210—Glacial and Quaternary Geology (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.

Teaching Mathematics

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 Secondary and K-12 Teacher Education.

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)
- Major requirements (89 credits): Lower division coursework (18 credits), upper division coursework (71 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 (71)
Educ 3412—The Computer in Education (4)
Educ 4381—Teaching American Indian Students (2)
Educ 4500—Professional Issues in Teaching (1)
EdSe 3204—General Instructional Methods (4)
EdSe 3205—Apprenticeship: Middle School (2)
EdSe 3206—Apprenticeship: Secondary School (2)
Education and Human Service Professions

EdSe 4100—Human Relations in Classrooms (2)
EdSe 4222—Teaching Mathematics: Grades 5-12 (4)
EdSe 4400—Professional Development Seminar (1)
EdSe 4501—Educational Psychology (3)
EdSe 4600—Student Teaching (12)
EdSe 5120—Philosophy and Organization of the Middle School (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 (6)
Choose 2 from the following:
Educ 4226—Geometry for Teachers in Grades 5-8 (3)
Educ 4227—Number Theory for Teachers in Grades 5-8 (3)
Math 4326—Linear Algebra (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.

Teaching Physical Sciences

Chemistry Concentration (B.A.S.)
Students can choose to complete the chemistry concentration or the physics concentration.

The B.A.S. degree in teaching physical sciences—chemistry concentration is offered by the Department of Education in conjunction with the Department of Chemistry. This major (114 credits) prepares students to teach all science areas in grades 5 through 8 and to teach chemistry in grades 9 through 12.

Admission Requirements
See admissions requirements under Secondary and K-12 Teacher Education.

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

- Liberal education requirements
- Advanced writing requirement: Comp 3140—Advanced Writing: Human Services or Comp 3150—Advanced Writing: Science (3)

- Major requirements (112 credits): Lower division coursework (56 credits), upper division coursework (56 credits)

Required Courses

Lower Division (56)
Ast 1040*—Introduction to Astronomy (3)
Biol 1011*—General Biology I (5)
Biol 1012—General Biology II (5)
Chem 1151*—General Chemistry I (5)
Chem 1152—General Chemistry II (5)
Chem 2222—Quantitative Analysis (3)
Chem 2223—Quantitative Analysis Lab (1)
Chem 2521—Organic Chemistry I (4)
Chem 2522—Organic Chemistry II (4)
Educ 1101*—Education in Modern Society (3)
Geol 1110*—Introductory Geology (4)
Math 1250*—Pre-calculus Analysis (4)
Phys 1001*—Introduction to Physics I (5)
Phys 1002—Introduction to Physics II (5)

Upper Division (56)
Chem 3322—Biochemistry (3)
Chem 3324—Biochemistry Lab (1)
Chem 4632—Physical Chemistry (4)
Comp 3140—Advanced Writing: Human Services or Comp 3150—Advanced Writing: Science (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 (1)
EdSe 3204—General Instructional Methods (4)
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 4400—Professional Development Seminar (1)
EdSe 4501—Educational Psychology (3)
EdSe 4600—Student Teaching (12)
EdSe 5120—Philosophy and Organization of the Middle School (2)
Hlth 3202—Drug Education (2)
Geol 4110—Advanced Earth Science for Teachers (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.

Physics Concentration (B.A.S.)
The B.A.S. degree in teaching physical sciences—physics concentration is offered by the Department of Education in conjunction with the Department of Physics. This major (113 credits) prepares students to teach all science areas in grades 5 through 8 and to teach physics in grades 9 through 12.
Admission Requirements
See admission requirements under Secondary and K-12 Teacher Education.

Degree Requirements
The requirements for the B.A.S. in teaching physical sciences—physics concentration include:
• Liberal education requirements
• Advanced writing requirement: Comp 3140—Advanced Writing: Human Services or Comp 3150—Advanced Writing: Science (3)
• Major requirements (110-111 credits): Lower division coursework (59-60 credits), upper division coursework (51 credits)

Required Courses
Lower Division (59-60)
Ast 1040*—Introduction to Astronomy (3)
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)
CS 1131*—Introduction to Programming in FORTRAN (3) or CS 1135*—Introduction to Programming in FORTRAN 77 (2)
Educ 1101*—Education in Modern Society (3)
Geol 1110*—Introductory Geology (4)
Math 1296*—Calculus I (5)
Math 1297—Calculus II (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 Lab (1)

Upper Division (51)
Comp 3140—Advanced Writing: Human Services or Comp 3150—Advanced Writing: Science (3)
Educ 3412—The Computer in Education (4)
Educ 4324—Science, Technology, and Society (3)
Educ 4381—Teaching American Indian Students (2)
Educ 4500—Professional Issues in Teaching (1)
EdSe 3204—General Instructional Methods (4)
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 4400—Professional Development Seminar (1)
EdSe 4501—Educational Psychology (3)
EdSe 4600—Student Teaching (12)
EdSe 5120—Philosophy and Organization of Middle Schools (2)
Geol 4110—Advanced Earth Science for Teachers (2)
Hlth 3202—Drug Education (2)
Phys 3061—Instrumentation (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.

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 Secondary and K-12 Teacher Education.

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)
• Major requirements (100 credits): Lower division courses in each of the seven social studies areas (34 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 (34)
Anth 1602*—Prehistoric Cultures or Anthropology (4)
Anth 1604*—Cultural Anthropology (4)
Econ 1003*—Economics and Society or Economics (4)
Econ 1022*—Principles of Economics: Macro or Principles of Economics: Micro (3)
Geog 1202*—World Regional Geography or Geography (3)
Geog 1414*—Physical Geography (4)
Hist 1207*—Dawn of Modern Europe
or Hist 1208*—Europe in the Modern Age (3)
Hist 1304*—U.S. History Part I: 1607-1877 (3)
or Hist 1305*—U.S. History Part II: 1865-Present (3)
Pol 101*—American Government and Politics (3)
Pol 1050*—International Relations
or Pol 1500*—Introduction to Comparative Politics
or Pol 1610*—Politics and Society (3)
Psy 1003*—General Psychology (4)
Soc 1101*—Introduction to Sociology (4)

Social Studies Upper Division

Non-Western History (3-4)
Select one course:
Amln 2115—Chippewa History and Culture (3)
Hist 2515—Precolonial Africa (3)
Hist 3462—History of Modern Japan (3)
Hist 3463—History of Modern China (3)
Hist 3516—Society and Culture in 20th-Century Africa (3)
Pol 3570—The Third World and Development (3)
Span 2540*—Latino Literatures and Cultures (3)

Required Education Courses
EdSe 3204—General Instructional Methods (4)
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 4502—Teaching Social Studies: Grades 5-12 (3)
EdSe 4500—Professional Development Seminar (1)
EdSe 4600—Student Teaching (12)
EdSe 5120—Philosophy and Organization of the Middle School (2)
Hist 3202—Drug Education (2)

Social Studies Concentration (18)
Select one of the seven social science fields and complete the 18-credit concentration as specified for each field below.

Anthropology Concentration (18)
Anth 4651—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 Econ courses (12)

Geography Concentration (17-18)
Geog 3401—Weather and Climate (3)
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 3342, 3352 (4)
Elective Geog course at 3xxx or above (3)

History Concentration (18)
Choose from the following (no more than 8 cr in any one group):

Group I: United States 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: 1789-1848 (3)
Hist 3242—Europe in Ascendancy: 1848-1914 (3)
Hist 3243—Europe in Crisis in the 20th Century (3)
Hist 3256—Making of Modern Britain (3)

Group III: Asian History, African History or Other Non-U.S., Non-European History
Hist 2515*—Precolonial Africa (3)
Hist 3463—History of Modern China (3)
Hist 3491—History of Modern Asia (3)
Hist 3515—Modern Africa (3)
Hist 3516—Society and Culture in 20th-Century Africa (3)

Hist 3601—Colonial Latin America (3)

Political Science Concentration (18)
Choose from the following (no more than 8 credits in any one group):

Category I: United States Politics
Pol 3001—American Public Policy (3)
Pol 3020—State Government (3)
Pol 3040—Women and Politics (3)
Pol 3080—Environment and Politics (3)
Pol 3130—The 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—Public Administration and Policy Analysis (3)
Colleges and Schools

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 3426—Politics of International Organization and Law (4)

Category III: Comparative Politics
Pol 3510—Russian and Eastern European Politics (4)
Pol 3517—Western European Political Systems (4)
Pol 3570—Third World and Development (3)

Category IV: Political Theory
Pol 3610—Political Economy: An Introduction (4)
Pol 3625—Democratic Theory (4)
Pol 3651—History of Western Political Thought I (4)
Pol 3652—History of Western Political Thought II (4)

Psychology Concentration (18)
Choose 18 credits from the following:
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 Behavior (3)

Sociology Concentration (18)
Soc 2111—Sociological Theory (4)
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 Soc course 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 Secondary and K-12 Teacher Education.

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

- Liberal education requirements. Students are encouraged to take the following: Engl 1907—Introduction to Literature (Category 9), Psy 2021—Developmental Psychology, and Comm 2929—Intercultural Communication (Category 6). 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)
- Requirements for the major (85 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 Lang 4044.

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 (62)
Educ 3412—The Computer in Education (4)
Educ 4381—Teaching American Indian Students (2)
Special Education Licensure Programs

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

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

Students interested in an emotional behavioral disorders or learning disabilities typically earn licensure 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 have their applications reconsidered the following semester.

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. Students must pass all tests required by the Minnesota Board of Teaching.

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.
Early Childhood/Special Education Licensure

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 licensure program in early childhood/special education (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.

For students who do not hold an early childhood teaching license the following courses or their equivalents must be taken to demonstrate the achievement of the Minnesota Board of Teaching Standards of Effective Practice. (21 credits)

- **ECh 4400**—Professional Development Seminar (1)
- **Educ 1000**—Human Development (3)
- **Educ 1100**—Human Diversity (3)
- **Educ 1101**—Education in Modern Society (3)
- **ECh 3050**—Observing and Guiding Behavior: Birth-Age Eight (4)
- **ECh 3030**—Inquiry, Social Studies, and Science Learning: Birth-Age Eight (5)
- **Hlth 5161**—School Health Programs: Early Childhood Through Middle School (2)

**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 (6)
- **ECh 5010**—Programs for Education of Young Children: Birth-Age Eight (4)
- **ECh 5020**—Literacy, Language, and Mathematics: Birth-Age Eight (5)

**Early Childhood Special Education (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)

* 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.

Emotional Behavioral Disorders (EBD) Licensure

The emotional behavioral disorders (EBD) licensure program (43 credits) requires 18 credits in special education core courses and 25 credits in the emotional behavioral disorders specialization. In addition, candidates may need 5-20 credits in prerequisite courses, depending on their educational background.

Prerequisite Courses

*Students with elementary education backgrounds must complete (5):*
- **EdSe 5111**—Secondary Curriculum and Administration (2)
- **Psy 3371**—Child and Adolescent Psychology (3)

*Students with secondary education backgrounds must complete (13):*
- **Educ 1000**—Human Development (3)
- **ElEd 3325**—Language and Literacy (4)
- **ElEd 3355**—Critical Thinking: Elementary Mathematics (4)
- **ElEd 5401**—Elementary School Curriculum (2)

*Students with no prior background in teacher education must complete:*
- **Educ 1000**—Human Development (3)
- **Educ 1100**—Human Diversity (3)

or
- **EdSe 4100**—Human Relations in Classrooms (2)
- **EdSe 5111**—Secondary Curriculum and Administration (2)
- **ElEd 3325**—Language and Literacy (4)
- **ElEd 3355**—Critical Thinking: Elementary Mathematics (4)
- **ElEd 5401**—Elementary School Curriculum (2)
- **Hlth 3202**—Drug Education (2)

Emotional Behavioral Disorders Licensure Program

**Special Education Core (18)**
- **SpEd 5204**—Special Education Assessment: Mild Disabilities (4)
- **SpEd 5433**—Foundations in Special Education (4)
- **SpEd 5434**—Assistive and Computer Technology for Teaching (3)
- **SpEd 5435**—Parent and Professional Communication and Collaboration (4)
- **SpEd 5555**—Assessment and Instruction of Culturally and Linguistically Diverse Exceptional Learners (3)

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

Exit Standards
Students must successfully complete a student teaching experience and must meet other competencies required for Minnesota licensure. Students must pass all tests required by the Board of Teaching.

Learning Disabilities (LD) Licensure
The learning disabilities (LD) licensure program (43 credits) requires 18 credits in special education core courses and 25 credits in the learning disabilities specialization. In addition, candidates may need 5-20 credits in prerequisite courses, depending on their prior educational background.

Prerequisite Courses
Students with elementary education backgrounds must complete (5):
EdSe 5111—Secondary Curriculum and Administration (2)
Psy 3371—Child and Adolescent Psychology (3)

Students with secondary education backgrounds must complete (15):
Educ 1000—Human Development (3)
ElEd 3325—Language and Literacy (4)
ElEd 3355—Critical Thinking: Elementary Mathematics (4)
ElEd 5401—Elementary School Curriculum (2)
Hlth 3202—Drug Education (2)

Students with no prior background in teacher education must complete:
Educ 1000—Human Development (3)
Educ 1100*—Human Diversity (3)
or EdSe 4100—Human Relations in Classrooms (2)
EdSe 5111—Secondary Curriculum and Administration (2)
ElEd 3325—Language and Literacy (4)
ElEd 3355—Critical Thinking: Elementary Mathematics (4)
ElEd 5401—Elementary School Curriculum (2)
Hlth 3202—Drug Education (2)

Learning Disabilities Licensure Program
Special Education Core (18)
SpEd 5204—Special Education Assessment: Mild Disabilities (4)
SpEd 5433—Foundations in Special Education (4)
SpEd 5434—Assistive and Computer Technology for Teaching (3)
SpEd 5435—Parent and Professional Communication and Collaboration (4)
SpEd 5555—Assessment and Instruction of Culturally and Linguistically Diverse Exceptional Learners (3)

Learning Disabilities Specialization Core (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)
* Courses that may be used to fulfill UMD liberal education program requirements.

Exit Standards
Students must successfully complete a student teaching experience and must meet other competencies required for Minnesota licensure. Students must pass all tests required by the Board of Teaching.