

This is the College of Education and Human Service Professions section of the 1997-1999 University of Minnesota, Duluth Catalog

College of Education and Human Service Professions (CEHSP)

Dean: H. Mitzi Doane
125 Bohannon Hall, (218) 726-7131
Associate Dean: Edmond Lundstrom
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The faculty and administrative officers of the College of Education and Human Service Professions are dedicated to preparing highly qualified leaders in human service professions, including education, social work, allied clinical health, mental health, and selected human service fields. Students are prepared for employment in industry, school and non-school educational settings, community agencies, and government.

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

Teacher Licensure Programs

The teacher licensure programs were granted full continuing accreditation by the National Council for Accreditation of Teacher Education and the Minnesota Board of Teaching. Individual college programs also plan their programs for recognition and accreditation by individual professional organizations.

Admission to Upper Division Programs

In addition to the freshman or lower division admission process, students majoring in this college must apply for admission to an upper division program. Admission is contingent on submission of evidence that the student has completed prerequisite courses, earned a satisfactory GPA, taken appropriate tests, made plans for the rest of the academic program, and

participated in a personal interview to review these matters. Standards are set by the individual departments, and students should consult their adviser or department office for information.

Students who have not been admitted to a program may not file upper division papers. Unless otherwise noted, it is recommended that students apply for upper division during the quarter in which 80 credits are completed. When completed and on file, the upper division papers are considered to be an agreement between the student and the college; they are used as the basis for a credit check before graduation. Students who have completed 105 or more credits and have not filed their upper division papers will have a hold placed on their registration until their upper division papers have been completed.

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

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

Academic Standing

Good Academic Standing

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

Probation

Students with a cumulative GPA lower than that required for good academic standing will be placed on academic probation. Students on academic probation will have two quarters of day school attendance to attain the overall GPA required to avoid dismissal. All students with more than one quarter of probation must negotiate an academic contract with the CEHSP Student Affairs Office. Students should consider a lighter load or repeating D or F courses to improve their GPA. Probationary

students are strongly encouraged to seek advice from their faculty adviser, peer adviser, or staff in the college's Student Affairs Office.

Dismissal

Students who fail to attain the required minimum cumulative GPA after two quarters of day school attendance, following the quarter of initial probation, are subject to dismissal. No student will be academically dismissed before attempting 40 credits. Extenuating circumstances could be taken into consideration at the request of the student before dismissal. Students are notified by mail of this action.

Readmission After Dismissal

Readmission will not be granted before one academic year has passed from the date of dismissal. Readmission is granted when the required minimum cumulative GPA for good academic standing has been attained through University College or summer school. Students may not make up grade point deficiencies outside the University of Minnesota. Petition information is available at the CEHSP Student Affairs Office, 113 Bohannon Hall.

Appeal and Petition

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

Collegiate Honors

Students may graduate with *cum laude*, *magna cum laude*, or *summa cum laude* honors. The cumulative GPAs required for the three honors categories are available at the college's Student Affairs Office.

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

Department Honors Programs

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

Student Affairs Office

Information about admission, orientation, advisement, scholastic standing, change of college, change of major, graduation honors, and grievance and appeal procedures may be obtained from the Student Affairs Office, 113 Bohannon Hall (218/726-7156). Applications for licensure and postbaccalaureate contract forms for baccalaureate degree students seeking licensure or certification are also available in this office.

Continuing Education

The college has an office that coordinates University College (UC) courses, conferences, and institutes. Both undergraduate- and graduate-level credits may be earned through UC. In-service educators may apply credits earned through UC to the M.Ed. program and, with Graduate School approval, to Graduate School programs. For more information, contact UC, 117 Bohannon Hall (218/726-6797).

Degrees Offered

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

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

- Exercise Science
- Music Education
- Teaching English
- Teaching French
- Teaching German
- Teaching Social Studies
- Teaching Spanish

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

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

This degree program prepares students to teach in elementary and secondary education and offers the nonteaching fields of communication

sciences and disorders, psychology, and recreation. Majors include:

Communication Sciences and Disorders
 Early Childhood Studies
 Elementary Education
 Health Education
 Kindergarten-Elementary Education
 Physical Education
 Psychology
 Recreation
 Teaching Middle School-Jr. High School Science
 Teaching Earth Science
 Teaching Life Science
 Teaching Mathematics
 Teaching Physical Science

Minors include:

Coaching
 Early Childhood Studies
 English (Elementary)
 Health Education
 Music (Elementary)
 Physical Education
 Recreation
 Social Science (Elementary)
 Teaching Chemistry
 Teaching Earth Science
 Teaching Elementary School Science
 Teaching English
 Teaching French
 Teaching German
 Teaching Life Science
 Teaching Mathematics
 Teaching Physics
 Teaching Spanish

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

Requirements for the B.A.A. and B.A.S.—

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, health education, or physical education must apply to both the Department of Education and the content area department. Requirements for the B.A.A. and B.A.S. include the following:

- Completion of at least 57 credits in liberal education course work as prescribed in Policies and Procedures.
- Completion of one or more majors with a minimum GPA of 2.50 in each or as required by individual departments. Students must apply to the department(s) offering the major for acceptance into the program.

- A minimum GPA of 2.50 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 a minimum of 180 degree credits (music education B.A.A. requires 194 credits). The credit requirement is specified individually by each major program. Recommended electives and required supporting courses are described for each major.
- Compliance with all general requirements governing the granting of degrees at UMD. Students should review their degree status early in their senior year in the Registrar's Office.
- A minimum of 45 credits earned while in residence in the college. Thirty of the last 45 credits of the degree requirements must be earned in residence in the college.

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

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

Master of Education (M.Ed.)

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

*General Information—*The master of education is a professional graduate degree awarded by the college. The degree program provides an opportunity for educators in school or non-school settings to improve their professional competencies. Each candidate's program is individually tailored to meet identified needs and interests.

*Admission—*The master of education program is for educators in school and non-school settings. Admission is based on (1) the Graduate Record Examination (GRE) General Test or a portfolio that documents professional competence and professional goals, (2) the undergraduate scholastic record, (3) evaluations by supervisors, and (4) availability of courses and faculty. International students must present a TOEFL score of 500 or higher.

*Application—*Applications for admission may be obtained by writing to the Director, M.Ed.

Program, 125 Bohannon Hall, University of Minnesota, Duluth, MN 55812. Applications submitted must include one official copy of transcripts of all college work, the completed application, the application fee, and test results or portfolio.

Application Fee—A nonrefundable application fee of \$25.00 is required of each applicant. Checks for the fee should be made payable to the University of Minnesota.

Graduate Record Examination—The GRE may be taken at UMD. Contact Career Services, 255 Darland Administration Building, University of Minnesota, Duluth, MN 55812 for dates and applications.

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

Registration—Students who wish to enroll during the academic year should consult the official *Class Schedule* for registration instructions and deadlines. For extension course registration, consult the *University College Bulletin*. For summer session registration, consult the *UMD Summer Session Bulletin*. To request these bulletins, call (218) 726-8113.

Degree Program—A program is planned by an advisement committee with the candidate's goals, needs, and interests in mind. A core of foundation studies for a minimum of 15 credits is required. A program must contain a minimum of 45 graduate credits, including a field research project for a minimum of 6 credits. Graduation requirements include successful completion of an approved program of study and a field project and final paper which meet the approval of the student's M.Ed. faculty committee and the M.Ed. director. All degree requirements must be completed within seven years.

Graduate courses taken before admission may count toward the program if approved by the advisement committee and director. A minimum of 30 credits must be completed after admission to the program.

Only courses at the 5xxx and 8xxx levels are graduate-level courses. Students cannot earn a second major or upgrade a minor to a major in the M.Ed. program unless a

satisfactory program for this purpose can be developed using graduate offerings and meeting graduate standards.

Students may complete a concentration and have the notation (with concentration in _____) placed on their diplomas and transcripts. A concentration requires a minimum of 15 graduate credits in a specific area, e.g., early childhood studies, special education, environmental education, or technology.

Transfer Credits—A maximum of 12 quarter credits may be transferred to a degree program from an accredited graduate institution with approval from the advisement committee and program director. There is no limit on the number of credits that may be earned in University College. All credits in an M.Ed. program from University College, other institutions, and UMD are included on the transcript with a notation of their origin.

Graduate School—The M.A. in educational psychology is for those interested in obtaining counselor certification for school and agency settings. The M.A. in communication disorders prepares students for professional licensure or certification in speech-language pathology, audiology, or education of the hearing impaired. A master of social work (M.S.W.) is also available. For more information, see the Graduate School section of this bulletin.

Teacher Licensure Requirements

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

Students seeking a teaching license must complete a program approved by the Minnesota Board of Teaching; the college will then recommend that an appropriate license be issued. Approved programs are available in pre-kindergarten, kindergarten-elementary, elementary and secondary teaching, health education, adapted physical education, counseling, parent education, early childhood family education, special education, and English as a second language.

Requirements for a teaching license at the prekindergarten, elementary, and secondary levels include completion of:

- A B.A.A. or B.A.S. degree, including an NCATE and Minnesota Board of Teaching approved teaching major
- An approved program in drug education (Hlth 3202 or 5160)
- An approved course in human relations (see requirement listed for each teaching major)
- The Pre-Professional Skills Test (PPST) is required for initial Minnesota licensure. Students are encouraged to take the PPST during their freshman or sophomore year. They must have taken it before they can be admitted to upper division education courses. Students cannot be recommended for initial licensure until they have achieved passing scores on the PPST.

Students wishing to teach in secondary schools need to select an appropriate teaching major. These majors are designated as teaching _____ or _____ education, e.g., teaching English or health education. Students wishing to pursue majors in art education, health education, music education, or physical education must apply for admission to both the Department of Education and the content area department. All majors approved for secondary or K-12 teaching are listed in the bachelor of applied arts (B.A.A.) or bachelor of applied science (B.A.S.) section for CEHSP.

Students may also wish to pursue a minor or special area field that leads to teacher licensure. If a student elects to complete a minor applicable to teacher licensure for either the B.A.A. or B.A.S., it must be in connection with a teaching major for either of the programs. While licensure in a minor may enhance opportunity for initial employment, there are restrictions on its continued use. Students should consult with their adviser or the appropriate department head for special requirements.

Students seeking a teaching license who have already completed a baccalaureate program need to develop a postbaccalaureate student contract evaluation specifying the additional course work necessary to meet the requirements of the approved teaching licensure program. More information and applications are available from the college's Student Affairs Office.

Forms for applying for a teaching license may be obtained from the Student Affairs Office, 113 Bohannon Hall (218/726-7156). The completed application form, required fee, evidence of passing scores on the Pre-Professional Skills Tests, 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.

Adapted Physical Education (D/APE)

(Department of Health, Physical Education & Recreation and Department of Education)

Faculty Coordinator: Mark E. Nierengarten

Note: This concentration will not be available after spring 1999. Students should make every effort to complete their program by that time.

The sequence of courses listed in the concentrations below has been approved by the Minnesota State Board of Teaching as a licensure program to prepare students to teach developmental/adapted physical education (D/APE). Students must be B.A.S. majors in physical education. Both the undergraduate and graduate D/APE concentrations as well as the concentration in special education (41 credits) must be taken if the candidate is seeking licensure in developmental/adapted physical education. Some courses may only be offered alternate years. Students should contact the faculty coordinator concerning class availability.

D/APE Undergraduate Concentration (14)

PEP 3103—D/APE Sensory, Ortho (3)
 PEP 3105—D/APE Develop Delay (3)
 PEP 3610—Therapeutic Exercise (3)
 PEP 3710—Motor Development (4)
 PEP 3711—Clin Exp: Develop (1)

D/APE Graduate Concentration (15)

PEP 5100—Found Adapt PE (3)
 PEP 5101—Program Adapted PE (3)
 PEP 5102—Assessment Adapt PE (3)
 PEP 5910—Intern D/APE Dev De (3)
 PEP 5912—Intern D/APE Sens O (3)

Special Education Concentration (12)

Educ 5433—Foundations in CFD (4)
 Educ 5435—Sys Persp C & F Prog (4)
 SpEd 5202—Behav Analysis/Spec Ed (4)

Chemistry Teaching

Teaching Chemistry Minor

This program (38 credits) is for students who want to teach less than half time in chemistry in grades 7-12. This minor may be taken in combination with any teaching major.

Lower Division (15)

Chem 1110-1111-1112
or 1130H-1131H-1132H—General Chemistry (15)

Upper Division (23)

Chem 3210—Intro Quant Analysis (5)
Chem 3512-3513—Organic Chemistry (10)
Educ 5234—Sci, Technol, Soc (4)
EdSe 5255—Teaching Sec Sci (4)

Coaching

(Department of Health, Physical Education & Recreation)
Faculty Coordinator: Don Collins

Coaching Certification (CC)

Note: Students must have been admitted to this program before December 31, 1996, before enrolling in the following courses.

The coaching certification (18 cr) provides students with an opportunity to develop coaching and managerial skills consistent with current state standards.

CC 3100—Sport Sci Coaches (3)
or PEP 3030—Human Biomechanics (4)*
CC 3116—Care, Prev Sport Inj
or PEP 3600—Sport Inj Assess, Mgt (4)*
CC 3160—Psy Aspects of Coach (2)
CC 3161—Adm Aspects of Coach (2)
CC 3900—Coaching Practicum (1)
Specific Coaching Strategies
4 credits from CC 3171 through 3179, CC 3270 through 3272
2 credits from PE 1800-1816 (Officiating)

* *Physical education majors only*

Coaching Minor

The coaching minor (25-26 cr) 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 & Recreation. Postbaccalaureate students seeking a coaching minor should have their transcript evaluated by the HPER department.

CC 3100—Sport Sci Coaches (3)
or PEP 3030—Human Biomechanics (4)*
CC 3116—Care, Prev Sport Inj
or PEP 3600—Sport Inj Assess, Mgt (4)*
CC 3160—Psy Aspects of Coach (2)
CC 3161—Adm Aspect of Coach (2)
Specific Coaching Strategies
4 credits from CC 3171 through 3179, CC 3270 through 3272
Hlth 1470—Human Nutrition (3)
Hlth 1610—Emergency First Response (3)
CC 3150—Coaching Methods (3)
CC 3900—Coaching Practicum (1)

* *Physical education majors only*

Communication Sciences and Disorders (CSD)

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

To meet the many and expanding challenges within the communication disorders field, the department offers high quality education and clinical training at the undergraduate and graduate level. 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 allied health care settings.

The program includes the study of phonetics, the anatomy and physiology of the speech and hearing mechanisms, the normal development of speech and language, and the nature of disorders of speech, hearing, and language and their management.

Admission Requirements

Students who wish to obtain an undergraduate degree in communication sciences and disorders must be formally admitted to the Communication Sciences and Disorders program. Department and Registrar approval of the upper division papers constitutes formal admission to the undergraduate program. To have upper division papers approved, students must have completed at least 80, but not more than 105 quarter credits, and have a minimum overall GPA of 2.80. Students who have 105 credits and have not filed upper division papers will have a hold placed on their records and will not be able to register for classes.

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

Maintenance Standards

Undergraduates who have approved upper division papers and have been formally admitted to the program must maintain an overall GPA of at least 2.80. Students with an overall GPA below 2.80 are placed on department academic probation. Once on probation, students have two quarters (including day school, UC, and summer school) to raise their GPA to 2.80 or higher. If students fail to raise their GPA within two quarters, 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 department 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 pathologist for school settings (pre-kindergarten to grade 12) must complete a preparation program that has been approved by the Minnesota Board of Teaching. Students interested in licensure for school settings should consult with the Department of Communication Sciences and Disorders.

Professional Certification

Students interested in professional licensure or certification in speech-language pathology, audiology, or education of the hearing impaired should contact the department director of graduate studies. They also should refer to the Graduate School for the master of arts degree program in communication disorders. The graduate program is accredited in speech-language pathology by Education Standards Board of the American Speech-Language-Hearing Association, the National Council for Accreditation of Teacher Education, and by the Minnesota Board of Teaching. Interested individuals are encouraged to contact the

department office for information concerning program modifications that may not be included in this bulletin.

Major (B.A.S.)

This major offers training in the fundamentals of human communication and communication disorders. For the B.A.S., students must complete lower and upper division courses (120 credits) as recommended by the academic adviser.

Lower Division (42)

Biol 1012—Human Anatomy (5)
 Biol 1102—Biology, Society (5)
 CSD 1990—Intro to Phonetics (4)
 Comm 1112—Public Speaking (4)
 Ling 1811—Intro to Language (4)
 Hlth 1000—Developing Wellness (3)
 Hlth 1905—Prin Hum Physiology (5)
 Math 1156—Finite Mathematics (4)
 Phys 1010—Ideas in Physics (3)
 Psy 1003—General Psychology (5)

Upper Division (78)

CSD 3111—Intro Commun Disord (3)
 CSD 3211—Fundam of Spch Sci (4)
 CSD 3214—Hearing Science (4)
 CSD 3311—Articul Disturbance (4)
 CSD 3411—Organic Disorders (4)
 CSD 3510—Stuttering (4)
 CSD 3711—Intro to Audiology (3)
 CSD 3811—Aural Rehab (3)
 CSD 3905—Observation (2)
 CSD 3906—Clinical Methods (5)
 CSD 3910—Clinical Procedures (6)
 CSD 5080—Diag Appra Comm Dis (2)
 CSD 5110—Normal Lang Develop (4)
 CSD 5210—Lang Disord, Child (4)
 CSD 5575—Voice, Voice Distur (4)
 Comp 3140—Adv Writ: Human Serv
 or Comp 3150—Adv Writ: Science
 or Comp 3160—Adv Writ: Soc Sci (4)
 EdSe 5100—Human Relations Class (3)
 Hlth 3202—Drug Education (2)
 Psy 3020—Basic Stat Methods (5)

Electives (8)—3xxx or 5xxx in CSD or one or more of the following courses approved for teaching licensures (Educ 1101, Educ 5433, Educ 5435, Educ 5500)

Early Childhood Studies (ECh)

(See Department of Education)

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

The early childhood studies programs have interdisciplinary curricula that prepare students for work in a variety of settings. Graduates find employment in nursery schools, child care

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, special education/early childhood education, community resources, and organizational management and supervision.

Employment in most early child care programs in Minnesota requires pre-kindergarten licensure. There are two ways to obtain preparation for licensure at the undergraduate level: through a B.A.S. degree program with a major in early childhood studies or through a baccalaureate degree program with a major in another field and a minor in early childhood studies. The early childhood studies major also leads to Minnesota licensure in special education/early childhood or early childhood family education, depending on the student's preference.

An international exchange program with Växjö University in Sweden is available for early childhood studies majors and minors during spring quarter of each academic year.

Admission Requirements

The number of candidates admitted to candidacy in the programs each year is based on availability of suitable child care sites for practical experience. Candidates are selected on the basis of an overall GPA of at least 2.50, three references, a personal written statement as indicated on the application form, and satisfactory completion of the Comprehensive Test of Basic Skills (CTBS). CTBS tests are administered the second Saturday of fall, winter, and spring quarters. Students must register for the CTBS test in 120 Montague Hall during the first week of the quarter. An entrance interview may be requested by the faculty selection committee. Students must furnish evidence that they have taken the Pre-Professional Skills Test (PPST) required by the state of Minnesota before beginning upper division education courses. Before application for licensure, students must have passed the PPST. An overall GPA of at least 2.70 must be attained before student teaching. Applications, including all supporting documents, are due by 4:00 p.m. on the third Friday of each quarter for

admission the following quarter. Students interested in the major are advised to apply during their freshman year; those interested in the minor, as early in their college careers as possible. 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 their field experiences) will have their candidacy rescinded.

Exit Criteria

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

Grievance Procedure

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

Personal Liability Insurance

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

Major (B.A.S.)

Students must complete the University's liberal education requirements, including specific course selections as follows: Psy 1003, Soc 1200, Comp 3140.

Completion of the early childhood studies major (115 credits minimum) satisfies the requirements for pre-kindergarten licensure in Minnesota. Students must complete an academic collateral field or academic minor (18 credits minimum).

Lower Division (13-14)

ECh 1025—Observ Devel Yg Ch (2)
 Educ 1000—Human Develop (4)
 or Psy 3331—Developmental Psych (5)
 Educ 1100—Human Diversity (4)
 Hlth 1470—Human Nutrition (3)

Upper Division (58)

Art 3806—Early Childhood Art (2)
 CSD 5110—Normal Lang Develop (4)
 ECh 3106—Prog for Young Ch (4)
 ECh 5233—Comm Arts Curricula (4)
 ECh 5235—Cog, Soc Skills Curr (4)
 ECh 5594—Early Ed Adm (3)
 Educ 3322—Children's Lit (3)
 Educ 5433—Foundations in CFD (3)
 Educ 5435—Sys Persp C & F Prog (4)
 Hlth 5160—ECh EIEd Hlth Progr (3)
 Mu 3626—Mu for Early Child (2)
 PEP 3750—Move Exp Young Ch (2)
 Psy 5500—Parenting (4)
 SpEd 5202—Behav Analysis/Spec Ed (4)
 SpEd 5203—Assess in Spec Ed (4)
 SpEd 5361—Infan, Tod Sp Need (4)
 SpEd 5362—Presch Spec Needs (4)

Practica (10)

Students must complete practica with at least two different age groups of preschool children for a total of 9 credits.

ECh 5553—Pract Group Setting (9)
 Educ 5301—Student Tchg Sem (1)

Study Fields (16)

Choose one area of specialty for a minimum of 16 credits:

Early Childhood Family Education
 Special Education Early Childhood

Early Childhood Family Education

Completion of this study field when accompanying the early childhood major will result in recommendation for early childhood family educator licensure in addition to prekindergarten licensure.

Comm 3020—Group Communication (4)
 or Psy 3211—Group Dynamics (3)
 ECh 5400—Phil ECh Fam Educ (1)
 FamL 5325—Educating Adults (3)
 FamL 5620—Tch Parent/Child Develop (3)
 FamL 5800—Pract Parent Educ (3)
 Psy 3400—Marriages & Families (4)

Special Education Early Childhood

Completion of this study field when accompanying the early childhood major will result in recommendation for special education early childhood licensure in addition to the pre-kindergarten licensure.

CSD 5479—Child Lang Dis (3)
 SpEd 5363—Early Spec Educ Cur (4)
 SpEd 5600—Spec Area Practicum (9)

Collateral Field (18)

A collateral field combines courses and experiences to better prepare students to teach in a special area of interest. A student *must complete the following requirements.*

- A minimum of 18 credits.
- The student must select a collateral field from one of the following areas: (a) *Academic*—an

area of study in which UMD offers a minor. The academic area requires a minimum of 18 credits of course work. Students may select from any minor offered at UMD. (b) *Self-designed*—an area of study that is a combination of other areas or an area that is not an academic minor (e.g., diversity issues, art-speech-theater, program administration).

- The course work that makes up the collateral field must be approved by the student's adviser. Prerequisites for courses included in the collateral field must be met by the student or waived by the appropriate department. There is no additional requirement regarding A-F or S-N grading. There is no minimum number of upper division credits required.
- The collateral field must be listed on the student's upper division application and must be approved by the student's adviser and the academic department or area in which it is to be completed. Changes in the collateral field are permitted following normal procedure. Completion of all requirements for a collateral field will be noted on the student's transcript.

See also requirements for B.A.A. and B.A.S. and Teacher Licensure Requirements.

Minor

When associated with a degree major in another field, completion of the early childhood studies minor (44-45 credits) satisfies the requirements for pre-kindergarten licensure in Minnesota. Students will be admitted to the minor on a space-available basis. Applications are available in the Department of Education.

Art 3806—Early Childhood Art (2)
 ECh 1025—Obser Devel Yg Ch (2)
 ECh 3106—Prog for Young Ch (4)
 ECh 5233—Comm Arts Curricula (4)
 ECh 5235—Cog, Soc Skills Curr (4)
 ECh 5553—Pract Group Setting (9)
 Educ 1000—Human Development (4)
 or Psy 3331—Developmental Psych (5)
 Educ 1100—Human Diversity (4)
 Educ 5301—Student Tchg Sem (1)
 Hlth 5160—ECh EIEd Hlth Progr (3)
 Mu 3626—Mu for Early Child (2)
 PEP 3750—Move Exp Young Ch (2)
 At least 3 credits from:
 ECh 5594—Early Ed Adm (3)
 Educ 5433—Foundations in CFD (4)
 Psy 5500—Parenting (4)
 SpEd 5362—Presch Spec Needs (4)

See also Teacher Licensure Requirements.

Earth Science Teaching

Adviser: Boman (Education)

Teaching Earth Science Major (B.A.S.)

This program (141 credits) prepares students to teach earth science, geology, astronomy, and meteorology and to apply for a Minnesota teaching license in earth science, grades 7-12.

Lower Division (63)

Ast 1040—Intro Astronomy (4)
 Biol 1111—General Biol (5)
 Biol 1113—Plant Biol (5)
 Chem 1110-1111—General Chemistry (10)
 Educ 1101—Educ in Mod Society (4)
 Geog 1413—Physical Geography (5)
 Geol 1110—Introductory Geol (5)
 Geol 3320—Intro Mineral (3)
 Geol 3324-3325-3326—Min, Pet I-II-III (12)
 Math 1250—Pre-Calc Analysis (5)
 Phys 1101—Intro to Physics (5)

Upper Division (78)

Comp 3140—Adv Writ: Human Serv (4)
 Educ 5234—Sci, Technol, Soc (4)
 Educ 5301—Student Teach Sem (1)
 Educ 5381—Tch American Indian (4)
 Educ 5412—Computers in Educ (4)
 Educ 5500—Prof Issues Tch (4)
 EdSe 3203—Sec Sch Apprentice (4)
 EdSe 3204—Gen Instruct Method (4)
 EdSe 3501—Educ Psychology (4)
 EdSe 5100—Hum Relations Class (3)
 EdSe 5255—Teaching Sec Sci (4)
 EdSe 5300—Student Teaching (14)
 Geog 3412—Weather and Climate (4)
 Geol 3120—Geology of North Am (3)
 Geol 3131—Oceanography (4)
 Geol 3200—Geomorphology (4)
 Geol 5010—Adv Earth Sci Tch (3)
 Geology elective numbered 3xxx or above (4)
 Hlth 3202—Drug Education (2)

See Teacher Licensure Requirements and CEHSP degree requirements.

See also Life Science Teaching, Outdoor Education concentration.

Teaching Earth Science Minor

This program (72-73 credits) is for students who intend to teach less than half time in earth science, geology, meteorology, or astronomy in grades 7-12. This teaching minor may be taken in combination with any teaching major.

Lower Division (44)

Ast 1040—Intro Astronomy (4)
 Biol 1111—General Biol (5)
 Biol 1113—Plant Biol (5)
 Chem 1105-1106—Gen, Organ, Biol Chem (10)
 Geog 1413—Physical Geography (5)

Geol 1110—Introductory Geol (5)
 Math 1250—Pre-Calc Analysis (5)
 Phys 1101—Intro to Physics (5)

Upper Division (28-29)

Educ 5234—Sci, Technol, Soc (4)
 Educ 5412—Computers in Educ (4)
 EdSe 5255—Teaching Sec Sci (4)
 Geog 3412—Weather and Climate (4)
 Geol 3131—Oceanography (4)
 or Geol 3120—Geology of North Am (3)
 Geol 3300—Basic Mineral, Petro (5)
 Geology electives numbered 3000 or above (4)

Education

Professors: Thomas G. Boman, Helen L. Carlson, David A. McCarthy; *Associate Professors:* Francis A. Guldbrandsen, Nedra A. Hazareesingh, Joan M. Karp, Clayton E. Keller, June E. Kreutzkamp, Linda Miller-Cleary (Engl), Bruce H. Munson, Thomas D. Peacock, Gwen Perun, Elizabeth P. Quintero, Helen Rallis, Mary Kay Rummel, Terrie M. Shannon (department head); *Assistant Professors:* Lyle Pagnucco, Noell W. Reinhiller

The department offers programs for the baccalaureate degree or licensure in early childhood studies; elementary or kindergarten-elementary, secondary education, K-12 education; and special education. See alphabetical listing for each program's specific admission, retention, and exit requirements.

The Department of Education has adopted the Learner-Sensitive Teacher model, and each program emphasizes the four themes of diversity, collaboration, reflection, and empowerment.

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.

Elementary Education (EIEd)

(See Department of Education)

Faculty: Carlson, Hazareesingh, Keller, Munson, Pagnucco, Peacock, Perun, Quintero, Reinhiller, Rummel

Successful completion of this program qualifies students to teach grades 1-6 in any Minnesota elementary school. The major (102 credits minimum) 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, teaching strategies in a practicum setting, and a practical experience. As part of the program, the student is required to develop an individualized course of study that includes an approved collateral field or an academic minor area. Additional teaching minors and collateral fields are also available. Students will be better prepared for employment if they have both depth and breadth of preparation through course work and areas of special interest.

Because of the personalized nature of programs for elementary education and kindergarten-elementary education majors, freshman and transfer students should contact their elementary education advisers early in their first quarter.

Admission to Candidacy Requirements

Revised admissions requirements will be available in the office of the Department of Education beginning September 1, 1997. The revised requirements will also appear in the bulletin addendum.

Maintenance Standards

To continue as elementary education or kindergarten-elementary education majors, students must make satisfactory academic progress (grades of C- or better in all required courses in the major) and demonstrate acceptable teaching skills in their field experiences. Faculty reviews all kindergarten and elementary education majors quarterly. Students who do not meet program standards may be dropped from the program. Students who need accommodations because of a disability or a special need should consult their program adviser and the Access Center.

Professional Quarter

Application for the professional quarter (student teaching experience) must be made the quarter before student teaching. Applications are available in 120 Montague. The student is

responsible for scheduling an interview to document fulfillment of all prerequisites, including completion of all elementary upper division courses except for Educ 5500. All incompletes must be cleared before filing application. The student is also responsible for having a minimum GPA of at least 2.70 at the beginning of the assignment.

Assignment to schools for the professional quarter will be made by the coordinator of field experiences in consultation with administrators and teachers of Duluth and area schools. Students may be required to establish residence in communities where they have been assigned. To ensure adequate student teaching supervision, the number of students accepted each quarter 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 quarter. Elementary and kindergarten-elementary students will be placed as determined by availability of sites and supervisors.

Liberal Education Requirements (60)*

Students must complete the University's liberal education distribution requirements, including the specific course selections identified below. A list of recommended courses in each category is available from the department office.

Suggested liberal education courses: Art 1002, Biol 1102, Chem 1101, Comm 1222, DN 1500, Geol 1110, Phys 1010, SpEd 1357.

Composition Requirements

Comp 1120—College Writing (5)
Comp 3140—Adv Writ: Human Serv (4)

Category I (8-18)

At least one communications course and one philosophy course, if a philosophy course is not selected in Category III

Category II (8-18)

At least one course that includes a separate laboratory section

Category III (11-18)

At least one history (Hist) course and at least one geography (Geog) course, and one philosophy course, if a philosophy course is not selected in Category I

Category IV (8-18)

At least one literature course from the Department of English and one art course. (Art 1002 is a prerequisite for Art 3810 and Mu 1002 is a prerequisite for Mu 3621, which are required for elementary education majors.)

* Courses in composition and courses taken as part of an academic collateral field may not be counted toward the 60 credits. Courses taken as part of an academic minor may be counted toward the 60 credits.

Elementary Education Lower Division Courses (26)

Art 1002—Intro to Art (4)
 Educ 1000—Human Develop (4)
 Educ 1100—Human Diversity (4)
 Educ 1101—Educ Modern Society (4)
 Hlth 1610—Emer First Aid Response (3)
 Math 1141—Math El Ed I (5)*
 Mu 1611—Music Fundamentals (2)

Elementary Education Upper Division Courses (76)

Upper division course options for any quarter

Art 3810—Art in Elem Educ (5)
 Educ 3322—Children’s Lit (3)
 (Before or concurrent with Block 2)
 Hlth 5160—ECh ElEd Hlth Progr (3)
 Mu 3621—Ele Sch Mu Tch (3)
 PE 3126—Elem School Phy Ed (4)
 SpEd 5305—Except in Classrm (3)

Upper Division Courses in Block Sequence

Block 1 (concurrent registration)
 Educ 3333—Lng Environ, Act Res (3)
 ElEd 3113—Teach Strategies I (5)
 ElEd 3375—Teaching Comm I (3)
 SpEd 5610—Mainstream Practicum (1)

Block 2 (concurrent registration)
 Educ 5382—Tchg Am Indian I (2)
 ElEd 3115—Teaching Strategies II (3)
 ElEd 3355—Tchg Math-Elem (3)
 ElEd 3376—Teaching Comm II (3)
 SpEd 5610—Mainstream Practicum (1)

Block 3 (concurrent registration)
 Educ 5383—Tchg Am Indian II (2)
 ElEd 3117—Teaching Strategies III (3)
 ElEd 3344—Sci, Envir Ed (3)
 ElEd 3366—Soc Stds, Envir Ed (3)
 SpEd 5610—Mainstream Practicum (1)

Last quarter before or after student teaching

Educ 5500—Prof Issues Tch (4)

Block 4

Educ 5301—Student Teach Sem (1)
 ElEd 5508—Prof Tchg Exp Elem (14)

To fulfill the state of Minnesota Board of Teaching requirements in first aid, students must take Hlth 1610—Emergency First Response or have certification in Red Cross First Aid and CPR or take an approved first aid and CPR course.

* *Depending on their math placement test score, students may be required to successfully complete Math 1001 or Math 1003 (5 cr) before registering for Math 1141. Credits for Math 1001 and Math 1003 do not count toward minimum credits required for graduation.*

Academic Minor or Approved Collateral Field (minimum 18 cr)

In addition to the above requirements, all students majoring in elementary or kindergarten-elementary must complete an academic minor or approved collateral field. Contact the Department of Education for descriptions.

A collateral field with its focus on academic coursework better prepares students to teach in a special area of interest. A student must complete the requirements below.

- A minimum of 18 credits in an approved selection of courses must be completed for a collateral field. Courses and credits that are used to fulfill liberal education requirements or required supporting courses may not be used to fulfill collateral field requirements. See also Requirements for B.A.A. and B.A.S.

Elementary Education Major (B.A.S.)

Successful completion of this program qualifies students to teach grades 1-6 in any Minnesota elementary school. The major (102 credits minimum) provides a good foundation for programs leading to licensure as a special education teacher, an elementary principal, or an elementary school counselor, or for non-school-related occupations requiring skill in working with children.

Kindergarten-Elementary Education Major (B.A.S.) (additional 15 credits)

Successful completion of this program qualifies a student to teach kindergarten and grades 1-6 in any Minnesota elementary school. The major (117 credits minimum) provides a good foundation for programs leading to licensure as a prekindergarten teacher, special education teacher, elementary principal, or elementary school counselor, or for non-school-related occupations requiring skill in working with young children or with parents of young children. In addition to the courses required for elementary licensure, the following courses are required for adding kindergarten licensure:

ECh 3106—Prog for Young Chil (4)
 ElEd 5509—Prof Tchg Kdg Env (7)
 ElEd 5595—Kindergarten Ed (4)

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 elementary education courses, and have acceptable ratings from both the classroom and University supervisors for student teaching performance.

Emergency Medical Services

(Department of Health, Physical Education & Recreation)
Note: This program will not be available after spring 1999.
 Students should make every effort to complete their program by that time.

The following sequence of courses (20 credits) prepares students to take the state examination for emergency medical technician (EMT) certification, administered by the State Department of Health. Students may also qualify for the American Red Cross advanced instruction rating in first aid and American Heart Association cardiopulmonary resuscitation (CPR) certification.

Hlth 1610—Emer First Response (3)
 Hlth 1700—Advanced First Aid (3)
 Hlth 1702—Tch Cardiopul Resus (2)
 Hlth 1703—Tch Adv First Aid (2)
 Hlth 1800—Emergen Med Care I (4)
 Hlth 1801—Emergen Med Care II (4)
 Hlth 1805—Emergen Care Pract (2)

English Teaching

English as a Second Language (ESL)

This program (39 credits) is required of students intending to seek teacher licensure in ESL at either elementary or secondary levels. Students must also complete all CEHSP core requirements as well as two years or the equivalent of foreign language study.

Anth 5628—Language, Culture (4)
 CSD 5110—Normal Lang Develop (4)
 Educ 5350—Tchg ESL Reading (3)
 Engl 5811—Intro to Modern Engl (4)
 Engl 5930—Methods, P in TESL (4)
 Lang 3801—Tchg Nonnative Lang (4)
 Ling 3101—Intro to Phonology
 or CSD 1990—Intro to Phonetics (4)
 Ling 3102—Intr Morphol, Syntax (4)
 Ling 5831—Sociolinguistics (4)
 Ling 5842—Applied Linguistics (4)

See Teacher Licensure Requirements and Requirements for the B.A.A. and B.A.S.

Teaching English Major (B.A.A.)

This program (107 credits) is required of students seeking teacher licensure as Minnesota secondary school English teachers. Comp 1120—College Writing may not be applied to the credits required for the major. No minor is required.

Lower Division (16)

Educ 1101—Educ in Mod Society (4)
 Engl 1563, 1564—American Literature (8)
 Engl 1582—Intro to World Lit (4)

Upper Division (91)

EdSe 5212—Lit for Adoles (4)
 EdSe 5215—Reading Sec Schools (4)
 Engl 3906—Meth Literary Study (4)
 Engl 5712—Oral Interpret Lit (3)
 Engl 5811—Intro Modern Engl (4)
 Engl 5902—Comp for Tchs I (4)
 Engl 5922—Teaching Lang Arts (4)
 Ling 5842—Applied Linguistics (4)
 One course from each of the following three categories (12):
 History of British Literature: Engl 3503, 3504, 3505
 Major British and American Authors: Engl 3223, 3480, 3574, 5222, 5312, 5331, 5574, 5580
 Advanced Writing: Comp 3100, Engl 3115, 3121, 5116, 5122
 Electives from the following areas, to be approved by adviser (8):
 American Indian studies, American literature, British literature, communications, humanities, journalism, linguistics, minority literature, theatre, women writers
 Educ 5301—Student Teach Sem (1)
 Educ 5381—Tch American Indian (4)
 Educ 5500—Prof Issues Tch (4)
 EdSe 3203—Sec Sch Apprentice (4)
 EdSe 3204—Gen Instruct Method (4)
 EdSe 3501—Educ Psychology (4)
 EdSe 5100—Hum Relations Class (3)
 EdSe 5300—Student Teaching (14)
 Hlth 3202—Drug Education (2)

See Teacher Licensure Requirements and CEHSP degree requirements.

Teaching Secondary School English Minor

This program (55 credits) is required of students seeking to add licensure to teach English in Minnesota secondary schools to a major licensure area. Comp 1120—College Writing may not be applied.

Lower Division (16)

Engl 1563, 1564—American Literature (8)
 Engl 1582—Intro to World Lit (4)
 Ling 1811—Intro to Language (4)

Upper Division (39)

EdSe 5215—Reading Sec Schools (4)
 Engl 3906—Meth Literary Study (4)
 Engl 5712—Oral Interpret Lit (3)
 Engl 5902—Comp for Tchs I (4)
 Engl 5922—Teaching Lang Arts (4)
 Ling 5842—Applied Linguistics (4)
 One course from each of the following categories (16):
 History of British Literature: Engl 3503, 3504, 3505 (4)
 Major British and American Authors: Engl 3223, 3480, 3574, 5222, 5312, 5331, 5574 (4)
 Advanced Writing: Comp 3100; Engl 3115, 3121, 5116, 5122 (4)
 American Indian Studies: Amln 3260; EHS 5100 (4)

Teaching Elementary School English Minor

This minor (32 credits) provides a program of studies in English for prospective elementary school teachers.

Lower Division (16)

Engl 1563, 1564—American Literature (8)
 One course from (4):
 Engl 1582; HmCl 1021, 1022, 1023
 Ling 1811—Intro to Language (4)

Upper Division (16)

Engl 3906—Meth Literary Study (4)
 One course from (4):
 Engl 3503, 3504, 3505—English Literature
 Two additional English courses, one numbered 3xxx
 or above (8)

Comm 3020—Group Communication (4)
 or Psy 3211—Group Dynamics (3)
 ECh 1025—Observ Devel Yg Ch (2)
 ECh 5400—Phil ECh Fam Educ (1)
 Educ 1000—Human Development (4)
 Educ 1100—Human Diversity (4)
 FamL 5325—Educating Adults (3)
 FamL 5620—Tch Parent/Child De (3)
 FamL 5800—Pract Parent Educ (3)
 Hlth 3202—Drug Education (2)
 Psy 3400—Marriages and Families (4)
 Psy 5500—Parenting (4)

Family Life (FamL)

(See Department of Education)
 Faculty: Shannon, Watts (PMH)

**Family Education/Early Childhood
 Family Educator Licensure
 Program (48-49)**

Completion of this licensure program (48-49 credits) in addition to a degree major in another field will satisfy requirements by the Minnesota Board of Teaching. Early childhood family educators will be prepared to teach parents and/or children as well as plan and coordinate an instructional program that addresses the cognitive, emotional, social, and physical needs of parents and children in a family education program.

Comm 3020—Group Communication (4)
 or Psy 3211—Group Dynamics (3)
 ECh 1025—Observ Devel Yg Ch (2)
 ECh 3106—Prog for Young Ch (4)
 ECh 5233—Comm Arts Curricula (4)
 ECh 5235—Cog, Soc Skills Curr (4)
 ECh 5400—Phil ECh Fam Educ (1)
 ECh 5553—Pract Group Setting (3)
 Educ 1000—Human Development (4)
 Educ 1100—Human Diversity (4)
 FamL 5325—Educating Adults (3)
 FamL 5620—Tch Parent/Child De (3)
 FamL 5800—Pract Parent Educ (3)
 Hlth 3202—Drug Education (2)
 Psy 3400—Marriages and Families (4)
 Psy 5500—Parenting (4)

**Family Education/Parent Educator
 Licensure Program (33-34)**

Completion of this licensure program (33-34 credits) in addition to a degree major in another field will satisfy requirements by the Minnesota State Board of Teaching. Parent educators will be prepared to teach parents and/or parent-child interaction as well as plan and coordinate the instructional, emotional, cultural, social, and physical needs of parents and children in a family education program.

French Teaching

Teaching French Major (B.A.A.)

The B.A.A. major in teaching French is offered through the Department of Education in conjunction with the Department of Foreign Languages and Literatures.

This major (72-104 credits) prepares students to teach French in secondary schools.

Lower Division (4-36)

Core program—See B.A. requirements, CLA
 Educ 1101—Educ in Mod Society (4)

Upper Division (68)

Educ 5301—Student Teach Sem (1)
 Educ 5381—Tch American Indian (4)
 Educ 5500—Prof Issues Tch (4)
 EdSe 3203—Sec Sch Apprentice (4)
 EdSe 3204—Gen Instruct Method (4)
 EdSe 3501—Educ Psychology (4)
 EdSe 5100—Hum Relations Class (3)
 EdSe 5300—Student Teaching (14)
 Hlth 3202—Drug Education (2)
 Lang 3801—Tch Nonnative Lang (4)

See Teacher Licensure Requirements.

Plus 24 credits of upper division courses in French; with prior approval of the student's adviser, a maximum of 5 credits directly relevant to the student's program may be taken in other departments. Some of the 24 credits may be transferred from another college or earned abroad, but at least 8 must be taken in the department. Each student is encouraged to write a research paper in the senior year.

A student majoring in teaching French must pass an oral proficiency exam, which should be taken at the end of Fr 3002. The exam may be repeated if needed. The B.A.A. candidate must pass the oral proficiency exam and have completed Lang 3801 before being admitted to EdSe 5300. All B.A.A. majors in teaching French must complete student teaching in French for licensure.

Teaching French Minor

This minor (12-44 credits) is for students planning to teach French in secondary schools.

Lower Division (0-32)

Core program—See B.A. requirements, CLA

Upper Division (12)

Lang 3801—Tch Nonnative Lang (4)
Fr courses (8)

The B.A.A. candidate must pass the oral proficiency exam and have completed Lang 3801 before being admitted to EdSe 5300. All B.A.A. minors in teaching French must complete student teaching in French for licensure.

German Teaching

Teaching German Major (B.A.A.)

The B.A.A. major in teaching German is offered through the Department of Education in conjunction with the Department of Foreign Languages and Literatures.

This major (72-103 credits) prepares students to teach German in secondary schools.

Lower Division (4-35)

Core program—See B.A. requirements, CLA
Educ 1101—Educ in Mod Society (4)

Upper Division (68)

Educ 5301—Student Teach Sem (1)
Educ 5500—Prof Issues Tch (4)
Educ 5381—Tch American Indian (4)
EdSe 3203—Sec Sch Apprentice (4)
EdSe 3204—Gen Instruct Method (4)
EdSe 3501—Educ Psychology (4)
EdSe 5100—Hum Relations Class (3)
EdSe 5300—Student Teaching (14)
Hlth 3202—Drug Education (2)
Lang 3801—Tch Nonnative Lang (4)
See Teacher Licensure Requirements.

Plus 24 credits of upper division courses in German; with prior approval of the student's adviser, a maximum of 5 credits directly relevant to the student's program may be taken in other departments. Some of the 24 credits may be transferred from another college or earned abroad, but at least 8 must be taken in the department. Each student is encouraged to write a research paper in the senior year.

A student majoring in teaching German must pass an oral proficiency exam, which should be taken at the end of Ger 3002. The exam may be repeated if needed. The B.A.A. candidate must pass the oral proficiency exam and have completed Lang 3801 before being admitted to EdSe 5300. All B.A.A. majors in teaching German must complete student teaching in German for licensure. Students are encouraged to take Ling 1811.

Teaching German Minor

This minor (12-40 credits) is for students planning to teach German in secondary schools.

Lower Division (0-28)

Core program—See B.A. requirements, CLA

Upper Division (12)

Lang 3801—Tch Nonnative Lang (4)
German courses (8)

The B.A.A. candidate must pass the oral proficiency exam and have completed Lang 3801 before being admitted to EdSe 5300. All B.A.A. minors in teaching German must complete student teaching in German for licensure.

Health, Physical Education & Recreation (HPER)

Professors: Joann M. Johnson, Eugene S. Ley; *Associate Professors:* Donald K. Haynes, John R. Keener, Georgia L. Keeney, Edmond F. Lundstrom, James S. Malosky, Mark E. Nierengarten (department head); *Assistant Professors:* Donald T. Collins, Mary M. Mullen, Donald P. Roach;
Instructor: Jim Knapp

The mission of this department is to prepare students as professional health educators, physical educators, and recreation specialists. These professionals promote healthful lifestyles for the purpose of conserving and improving the human organism. The department believes that a healthy lifestyle originates in prevention rather than rehabilitation.

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 bulletin under these headings: Adapted Physical Education, Coaching Certification, Coaching Minor, Emergency Medical Services, Exercise Science (B.A.A.), Health Education (School and Community Options), Physical Education (B.A.S.), and Recreation. Students should check the admission and graduation requirements for each of the individual programs.

Health Education (Hlth)

(Department of Health, Physical Education & Recreation)

Faculty Coordinator: Georgia L. Keeney

The health education program (117-132 total credits) prepares graduates to practice in various settings, including schools, community agencies, hospitals, and businesses. The functions of health educators in these settings are to assess, plan, implement, deliver, administer, and evaluate programs that seek to conserve or improve health and wellness. Students must select either the school health education or community health education concentration.

Community Health Education Concentration

The concentration in community health education requires 117 to 120 total credits.

Admission Requirements—Refer to Admission Procedures. Students transferring from other colleges or academic units must have a minimum GPA of 2.00 to transfer into the college. Students seeking to transfer should contact the CEHSP Student Affairs Office for procedural information. All students must apply for admission to upper division after completing the lower division program listed. A 2.50 GPA is required to be admitted to upper division. It is recommended that students apply for upper division during the quarter in which 80 credits are completed.

Academic Progress—Students within the community health education concentration must maintain a 2.50 GPA for admission to upper division. Eligibility to pursue course work does not imply eligibility to programs, continued candidacy, or graduation from degree programs that require a 2.50 GPA.

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

Transfer Students—Students who have completed part or all of an approved program at another institution should contact the faculty coordinator or adviser to find out to what extent their courses meet UMD requirements (see Admission Requirements above).

School Health Education Concentration

The concentration (132 credits) in school health education meets the Minnesota Board of Teaching licensure requirements as well as program standards of the National Council for Accreditation of Teacher Education (NCATE). All students must apply for admission to upper division after completing the lower division program listed. It is recommended that students apply for upper division during the quarter in which 80 credits are completed.

Admission Requirements—Refer to Admission Procedures. Students transferring from other colleges or academic units must have a minimum GPA of 2.00 to transfer into the college. Students seeking to transfer should contact the CEHSP Student Affairs Office for procedural information.

Academic Progress—Students within the B.A.S. teaching major must maintain a 2.50 GPA for admission to the upper division in compliance with NCATE standards. Eligibility to pursue course work does not imply eligibility to programs, continued candidacy, or graduation from degree programs that require a 2.50 GPA.

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

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

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

Major (B.A.S.)

Lower Division (52)

These courses must be completed with a minimum GPA of 2.50 to apply for upper division status.

Biol 1102—Biology, Society (5)
 Chem 1101—Aspect of Chemistry (5)
 Comm 1112—Public Speaking (4)
 Educ 1100—Human Diversity (4)
 Hlth 1000—Developing Wellness (3)
 Hlth 1104—Hlth Sci Terminol (3)
 Hlth 1470—Human Nutrition (3)
 Hlth 1700—Advanced First Aid (3)
 Hlth 1701—Cardiopul Resus (2)
 Hlth 1903—Applied Human Anat (5)
 Hlth 1905—Prin Hum Physiol (5)
 Psy 1003—General Psychology (5)
 Soc 1100—Soc, Social Problems (5)

Upper Division (65-80)

Students must be granted upper division status before enrolling in the following courses.

Requirements for admittance to the upper division can be obtained from the department or the CEHSP Student Affairs Office.

Comp 3140—Adv Writ: Human Serv
 or Comp 3170—Organizational Writ (4)
 Hlth 3101—Community Health (3)
 Hlth 3115—Consumer Hlth Ed (3)
 Hlth 3116—Epidem Comm Hlth (3)
 Hlth 3117—Prin of Sex Educ (4)
 Hlth 3150—Health Program Eval (3)
 Hlth 3202—Drug Education (2)
 Hlth 3322—Found of Health Ed (4)
 Hlth 3401—Hlth Ed Meth Mater (4)
 HPER 3000—Org, Adm Hlth, Phy Ed (3)
 Psy 3331—Developmental Psych (5)

See also requirements for B.A.A. and B.A.S.

Field of Concentration

Students must complete either the school or community option:

School Health Education (42)

Educ 1101—Educ in Mod Society (4)
 Educ 5301—Student Teach Sem (1)
 Educ 5381—Tchg Am Indian (4)
 Educ 5500—Prof Issues Tch (4)
 EdSe 3203—Sec Sch Apprentice (4)
 EdSe 3204—Gen Instruct Method (4)
 EdSe 3501—Educ Psychology (4)
 EdSe 5300—Student Teaching (14)
 Hlth 5160—ECh EIEd Hlth Prog (3)

See also Teacher Licensure Requirements.

Additional student teaching may be required for students with more than one teaching major. Contact department for requirements.

Community Health Education (27-30)

Hlth 3450—Hlth Promotion Prog (3)
 Hlth 3950—Internship (12-15)
 Hlth 5500—Environ Health (3)

Electives from health or other approved areas, numbered 3xxx or above (9)

Emergency Medical Care Option (10)

Students may add Emergency Medical Care (EMT) certification to either concentration.

Hlth 1800—Emergen Med Care I (4)
 Hlth 1801—Emergen Med Care II (4)
 Hlth 1805—Emergen Care Pract (2)

Minor

The health education minor (52 credits) provides training in the health needs of the family, school population, and community.

Lower Division (26)

Hlth 1000—Developing Wellness (3)
 Hlth 1470—Human Nutrition (3)
 Hlth 1700—Advanced First Aid (3)
 Hlth 1701—Cardiopul Resus (2)
 Hlth 1903—Applied Human Anat (5)
 Hlth 1905—Prin Hum Physiol (5)
 Psy 1003—General Psychology (5)

Upper Division (26)

Hlth 3101—Community Health (3)
 Hlth 3115—Consumer Hlth Ed (3)
 Hlth 3116—Epidem Comm Hlth (3)
 Hlth 3117—Prin of Sex Educ (4)
 Hlth 3322—Found of Health Ed (4)
 Hlth 3401—Hlth Ed Meth Mater (4)
 Psy 3331—Development Psych (5)

Life Science Teaching

Adviser: Boman (Education)

Teaching Life Science Major (B.A.S.)

This program (143-155 credits) is for students who intend to teach and seek a Minnesota teaching license in life science, grades 7-12.

Lower Division (59-69)

Biol 1012—Human Anatomy
 or Biol 5517—Compar Anat Vertebr (5)
 Biol 1111—General Biology and
 Biol 1112—Animal Biology and
 Biol 1113—Plant Biology (15)
 Chem 1105-1106-1107—Gen, Organ, Biol Chem (15)
 or Chem 1110-1111-1112—General Chemistry (15)
 and Chem 3512-3513—Organic Chemistry (10)
 Educ 1101—Educ in Mod Society (4)
 Geol 1110—Introductory Geol (5)
 Hlth 1905—Prin Hum Physiol (5)
 Math 1250—Pre-Calc Analysis (5)
 Phys 1101—Intro to Physics (5)

Upper Division (84-86)

- Biol 3154—Prin of Genetics (4)
- Biol 3245—Cellular Biology (4)
- Biol 3774—General Ecology Lab (2)
- Biol 3775—General Ecology (4)
- Biology electives numbered 3xxx or above (7)
- Comp 3140—Adv Writ: Human Serv (4)
- Educ 5234—Sci, Technol, Soc (4)
- Educ 5301—Student Teach Sem (1)
- Educ 5381—Tch American Indian (4)
- Educ 5412—Computers in Educ (4)
- Educ 5500—Prof Issues Tch (4)
- EdSe 3203—Sec Sch Apprentice (4)
- EdSe 3204—Gen Instruct Method (4)
- EdSe 3501—Educ Psychology (4)
- EdSe 5100—Hum Relations Class (3)
- EdSe 5255—Teaching Sec Sci (4)
- EdSe 5300—Student Teaching (14)
- Two courses from:
 - Geol 3120—Geology of North Am (3)
 - Geol 3131—Oceanography (4)
 - Geol 3150—Environmental Geol (4)
 - Geol 3200—Geomorphology (4)
 - Geol 3300—Basic Mineral, Petro (5)
- Hlth 3202—Drug Education (2)
- See Teacher Licensure Requirements and CEHSP degree requirements.

Teaching Life Science Minor

This program (75-76 credits) is for students who intend to teach less than half time in the biological sciences, grades 7-12. This teaching minor may be taken in combination with any teaching minor.

Lower Division (40)

- Biol 1111—General Biology and
 - Biol 1112—Animal Biology and
 - Biol 1113—Plant Biology (15)
- Chem 1105-1106—Gen, Organ, Biol Chem (10)
- Geol 1110—Introductory Geol (5)
- Math 1250—Pre-Calc Analysis (5)
- Phys 1101—Intro to Physics (5)

Upper Division (35-36)

- Biol 3154—Prin of Genetics (4)
- Biol 3775—General Ecology (4)
- Biology electives numbered 3xxx or above (7)
- Educ 5234—Sci, Technol, Soc (4)
- EdSe 5255—Teaching Sec Sci (4)
- Educ 5412—Computers in Educ (4)
- Geol 3120—Geology of North Am (3)
 - or Geol 3131—Oceanography (4)
- Geol 3300—Basic Mineral, Petro (5)

Teaching Elementary School Science Minor

This minor (34 credits) is for elementary education majors who want to specialize in teaching elementary school science.

- At least one of the following sequences (9-15):
 - Biol 1111—General Biology and Biol 1112—Animal Biology
 - and Biol 1113—Plant Biology (15)

- Chem 1105-1106—Gen, Organ, Biol Chem (10)
- Chem 1110-1111-1112—General Chemistry (15)
- Chem 1130H-1131H-1132H—General Chemistry (15)
- Geol 1110—Introductory Geol (5)
 - and Ast 1040—Intro Astronomy (4)
- Geol 1110—Introductory Geol(5)
 - and Geol 3131—Oceanography (4)
- Phys 1101-1102—Intro to Physics (10)
- Phys 1101-1103—Intro to Physics (10)
- Phys 1107-1108—General Physics (10)

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

- Category I: Biology (4)
- Category II: Chemistry and/or physics (4)
- Category III: Geology and/or astronomy (4)

EIEd 3425—Coll Fld: Fld Exper (2)
 A minimum of six credits in approved science education courses such as Educ 3601, 5163, 5234, 5235, 5236; EIEd 5905.

Additional electives from courses listed above to complete the 34 credits.

Outdoor/Environmental Education Concentration

This concentration (47-52 credits) trains students planning careers in outdoor education for work in outdoor learning centers, parks, nature preserves, or commercial programs. Students learn to interpret natural and cultural phenomena in the outdoors. This concentration must be taken in conjunction with the teaching life science or teaching earth science majors.

The concentration field shall be listed on the student's Upper Division Application and must be approved by the student's adviser. A student in this concentration must meet the same GPA requirements for that of the major. The concentration will be noted on the student's diploma as follows:

- Major: Teaching Life Sciences or Teaching Earth Sciences
- Field of Concentration: Outdoor/Environmental Education

Lower Division (18-19)

- Art 1002—Intro to Art (4)
 - or Art 1605—Fundam of Photogr (3)
- Geog 1305—Environ Conser (4)
- Rec 1206—Fall Outdoor Rec (2)
- Rec 1207—Winter Outdr Rec (2)
- Rec 1208—Spring Outdoor Rec (2)
- Five (5) credits from the following:
 - PE 1208—Scuba Diving (1)
 - PE 1240—Lifeguarding (2)
 - PE 1500—Cross-Count Ski (1)
 - PE 1506—Sailing (1)
 - PE 1507—Flatwater Kayaking (1)
 - PE 1508—Canoeing (1)
 - PE 1512—Fishing Skills (1)

Upper Division (29-33)

- Educ 3601—Wilderness Phil (3)
 Educ 5163—Outdoor Ed Methods (3)
 Educ 5300—Practicum in Ed (5-9)
 Education electives (3):
 Educ 5235—Energy Educ for Tch (3)
 or Educ 5236—Environ Educ Tch (3)
 Hlth 3600—Wilder Emerg Care (5)
 or Hlth 1700—Advanced First Aid (3)
 and Hlth 1701—Cardiopul Resus (2)
 Elect 10 credits from the following (for teaching life science majors, these 10 credits may also satisfy a portion of the electives for the major field requirements):
 Biol 3170—Issue Global Ecol (3)
 Biol 5461—Plant Taxonomy (5)
 Biol 5523—Nat Hist of Invertebr (4)
 Biol 5524—Nat Hist of Vertebr (4)
 Biol 5526—Ichthyology (4)
 Biol 5527—Ornithology (5)
 Biol 5528—Mammalogy (4)
 Biol 5561—Intro Entomology (5)
 Biol 5674—Coral Reef Studies (3)
 Biol 5771—Stream Ecology (5)
 Biol 5773—Limnology (4)
 Biol 5775—Plant Ecology (5)
 Biol 5778—Ecol of Anim Popula (5)
 Biol 5779—Desert Ecology (3)

Mathematics Teaching

Faculty Coordinator: Pagnucco

Teaching Mathematics Major (B.A.S.)

This major (105 credits) is for students who plan to teach mathematics in secondary schools.

Lower Division (23)

- Educ 1101—Educ in Mod Society (4)
 Mathematics Core:
 Math 1296-1297-3298—Calculus I-II-III
 or Math 1596H-1597H-3598H—
 Honors Calculus I-II-III (15)
 Math 3320—Vectors, Matrices (4)

Upper Division (82)

- Comp 3140—Adv Writ: Human Serv
 or Comp 3150—Adv Writ: Science (4)
 Educ 5301—Student Teach Sem (1)
 Educ 5381—Tch American Indian (4)
 Educ 5412—Computers in Educ (4)
 Educ 5500—Prof Issues Tch (4)
 EdSe 3203—Sec Sch Apprentice (4)
 EdSe 3204—Gen Instruct Method (4)
 EdSe 3501—Educ Psychology (4)
 EdSe 5100—Hum Relations Class (3)
 EdSe 5222—Teaching Sec Math (5)
 EdSe 5300—Student Teaching (14)
 Hlth 3202—Drug Education (2)
 Math 3241—Fundam of Math (3)
 Math 3441—Contemp Geometry (4)
 Math 3555—Discrete Math (4)
 Math 3699—Interm Analysis (4)
 Math 5670—Abstract Algebra I (4)
 Stat 3562—Prob, Stat I (4)
 Electives in Math or Stat must include one course above 3030 and one 5xxx course (6)

The following lower division courses are strongly recommended as electives: Chem 1103-1104; Econ 1004-1005; Engr 3036; MT 1500; Phil 1018; Phys 1107-1108.

The following upper division courses are strongly recommended as electives: Biol 3154; EdSe 5225; MT 1500; Phil 5560.

See Teacher Licensure Requirements and CEHSP degree requirements.

Teaching Mathematics Minor

This minor (38 credits) is for students who plan to teach mathematics part time in secondary schools and who are pursuing majors acceptable for licensure for B.A.A. or B.A.S. degrees. Students are expected to complete part of their student teaching in mathematics.

Lower Division (19)

- Mathematics Core:
 Math 1296-1297-3298—Calculus I-II-III
 or Math 1596H-1597H-3598H—Honors Calculus I-II-III (15)
 Math 3320—Vectors, Matrices (4)

Upper Division (19)

- EdSe 5222—Teaching Sec Math (5)
 Educ 5412—Computer in Educ (4)
 Electives in Math or Stat above 3030 and one 5xxx course (10)

Middle School-Junior High School Science Teaching

Adviser: Boman (Education)

Teaching Middle School-Junior High School Science Major (B.A.S.)

This program (151-152 credits) prepares students who intend to teach life, physical, earth, or general science in grades 5-9 and who intend to seek a Minnesota teaching license in science, grades 5-9.

Lower Division (71-72)

- Ast 1040—Intro Astronomy (4)
 Biol 1012—Human Anatomy
 or Biol 5517—Compar Anat Vertebr
 or Hlth 1905—Prin Hum Physiol (5)
 Biol 1111—General Biology and
 Biol 1112—Animal Biology and
 Biol 1113—Plant Biology (15)
 Chem 1105-1106-1107—Gen, Organ, Biol Chem (15)
 Educ 1101—Educ in Mod Society (4)
 Geol 1110—Introductory Geol (5)
 Two courses from:
 Math 1160—Calc, Short Course (4)
 Math 1250—Pre-Calc Analysis (5)
 Stat 1565—Elementary Stat (4)
 Phys 1101-1102-1103—Intro to Physics (15)

Upper Division (80)

- Biology electives (4)
 Comp 3140—Adv Writ: Human Serv (4)
 Educ 5234—Sci, Technol, Soc (4)
 Educ 5301—Student Teach Sem (1)
 Educ 5381—Tch American Indian (4)

Educ 5412—Computer in Educ (4)
 Educ 5500—Prof Issues Tch (4)
 EdSe 3203—Sec Sch Apprentice (4)
 EdSe 3204—Gen Instruct Method (4)
 EdSe 3501—Educ Psychology (4)
 EdSe 5100—Hum Relations Class (3)
 EdSe 5255—Teaching Sec Sci (4)
 EdSe 5300—Student Teaching (14)
 Geog 3412—Weather and Climate (4)
 Geol 3120—Geology of North Am (3)
 Geol 3131—Oceanography (4)
 Geol 3200—Geomorphology (4)
 Geol 3300—Basic Mineral, Petro (5)
 Hlth 3202—Drug Education (2)
 See Teacher Licensure Requirements and CEHSP degree requirements.

Music Education

Major (B.A.A.)

Instrumental Music Education Emphasis

This emphasis is for those planning to teach classroom and instrumental music, grades K-12.

Core Requirements are listed under *Music, School of Fine Arts* (52).

Applied instruction, principal instrument—1xxx level (6). Students whose principal instrument is not a band or orchestral instrument must pass advanced proficiency exam in a band or orchestral instrument in addition to earning 6 cr on their principal instrument.

Applied instruction, principal instrument (5xxx level) (5)

Mu 1106—Jazz Improvisation (1)

Mu 1209—Jazz Studies

or Mu 1260—Ethnic, Folk Music

or Mu 1270—Survey of Am Music (4)

Mu 1300—Group Instr Applied Mu (guitar)

(or pass fretted instrument proficiency exam) (1)

Mu 1441—Intro Voc, Inst Tech (2)

Mu 1442—Percussion, Brass I (2)

Mu 1443—Single Reed, Brass II (2)

Mu 1444—String, Flute, Dbl Rd (2)

Mu 1791—Fundam Conducting (2)

Mu 3112—Instrumental Arrang (3)

Mu 3141—20th-C Elec Tech (2)

Mu 3142—20th-C Harmon Tech (2)

Mu 3143—20th-C Formal Tech (2)

Mu 3636—Tch Gen Music: Elem (3)

Mu 3637—Tch Gen Mus: Second (3)

Mu 3796—Instr Teach Meth I (3)

Mu 3797—Instr Teach Meth II (3)

Mu 3798—Instr Conduct I (1)

Mu 3799—Instr Conduct II (1)

Ensembles, 1xxx level

Mu 1501—Concert Band

or Mu 1505—Sympho Wind Ensem

or Mu 1551—Orchestra (6) (1 cr ea qtr)

Ensembles, 5xxx level

Mu 5501—Concert Band

or Mu 5505—Sympho Wind Ensem

or Mu 5551—Orchestra (5) (1 cr ea qtr)

Additional ensembles:

Mu 1503—Jazz Ensemble

or Mu 5544—Chamber Music

or Mu 5552—Chamber Orchestra (2)

Electives (9)

Proficiency exams: basic piano, fretted instrument, adv band or orchestral instrument

Courses in Education:

Educ 1101—Educ in Mod Society (4)

Educ 5381—Tch American Indian (4)

Educ 5500—Prof Issues Tch (4)

EdSe 3203—Sec Sch Apprentice (4)

EdSe 3501—Educ Psychology (4)

EdSe 5100—Hum Relations Class (3)

EIEd 3425—Coll Fld; Fld Exper (2)

Hlth 3202—Drug Education (2)

SpEd 5305—Except in Classrm (3)

Combined total of at least 15 cr in these three courses:

Educ 5301—Student Teach Sem (1)

EdSe 5300—Student Teaching (7)

EIEd 3508—Stu Tch Ind Sub K-6 (7)

For information about admission to the teacher licensure program, see College of Education and Human Service Professions.

Vocal Music Education Emphasis

This emphasis is for those planning to teach classroom and vocal music, grades K-12.

Core Requirements are listed under *Music, School of Fine Arts* (52).

Applied instruction

Voice, principal instrument

Mu 1311—Voice (6)

Mu 5311—Voice (5)

Mu 1322—Piano (3)

Keyboard, principal instrument

Mu 1321—Piano (6) (3 cr substitute for Mu 1424)

Mu 5321—Piano (5)

Mu 1312—Voice (3)

Instrumental, principal instrument

Principal Instrument (1xxx level) (6)

Principal Instrument (5xxx level) (5)

Mu 1312—Voice (3)

Mu 1106—Jazz Improvisation (1)

Mu 1209—Jazz Studies

or Mu 1260—Ethnic, Folk Music

or Mu 1270—Survey of Amer Mu (4)

Mu 1300—Group Instr Applied Mu (guitar)

(or pass fretted instrument proficiency exam) (1)

Mu 1418—Diction (Ital, Engl) (1)

Mu 1441—Intro Voc, Inst Tech (2)

Mu 1442—Percussion, Brass I

or Mu 1443—Single Reed, Bras II

or Mu 1444—String, Flute, Dbl Rd (2)

Mu 1791—Fundam Conducting (2)

Mu 3141—20th-C: Elec Tech (2)

Mu 3142—20th-C: Harmon Tech (2)

Mu 3143—20th-C: Formal Tech (2)

Mu 3636—Tch Gen Music: Elem (3)

Mu 3637—Tch Gen Mus: Second (3)

Mu 3792—Choral Conducting (2)

Mu 3793—Choral Tch Method I (3)

Mu 3794—Choral Tch Meth II (3)

Ensembles, 1xxx level

Mu 1511—University Singers

or Mu 1519—Concert Chorale (6) (1 cr ea qtr)

Ensembles, 5xxx level

Mu 5511—University Singers

or Mu 5519—Concert Chorale (5) (1 cr ea qtr)

Additional ensembles

- Mu 5510—Chamber Singers
- or Mu 5518—Jazz Choir
- or Mu 3521—Opera Workshop (5)

Electives (9)

Proficiency exams: adv piano, adv voice, fretted instrument

Courses in education:

- Educ 1101—Educ in Mod Society (4)
 - Educ 5381—Tch American Indian (4)
 - Educ 5500—Prof Issues Tch (4)
 - EdSe 3203—Sec Sch Apprentice (4)
 - EdSe 3501—Educ Psychology (4)
 - EdSe 5100—Hum Relations Class (3)
 - EIEd 3425—Coll Fld; Fld Exper (2)
 - Hlth 3202—Drug Education (2)
 - SpEd 5305—Except in Classrm (3)
- Combined total of at least 15 cr in these three courses:
- Educ 5301—Student Teach Sem (1)
 - EdSe 5300—Student Teaching (7)
 - EIEd 3508—Stu Tch Ind Sub K-6 (7)

For information about admission to the teacher licensure program, see College of Education and Human Service Professions.

Music (Elementary) Minor

This minor provides a program of studies in music for prospective elementary school teachers.

Required (35)

Applied instruction—if piano exemption exam is passed, candidate completes 3 cr in applied voice and the remaining 3 cr in applied elective (6)

- Mu 0000—Recital Attendance (0)
(to be taken concurrently with applied instruction)
- Mu 1114-1115-1116—Basic Music Theory (12)
- Mu 1202—Survey of Music Lit (4)
- Mu 1260—Ethnic, Folk Music (4)
- Mu 1511—University Singers
- or Mu 1519—Concert Chorale (6)
- Mu 3636—Tch Gen Mus: Elem (3)

Physical Education (PE)

(Department of Health, Physical Education & Recreation)

Faculty Coordinator: Mark Nierengarten

The physical education major (166-169 credits) meets the Minnesota Board of Teaching licensure requirements as well as program standards of the National Council for the Accreditation of Teacher Education (NCATE) for teaching grades K-12 in Minnesota. All students must apply for admission to upper division after completing the lower division program listed. It is recommended that students apply for upper division during the quarter in which 80 credits are completed.

Admission Requirements

Refer to Admission Procedures. Students transferring from other colleges or academic units must have a minimum GPA of 2.00 to

transfer into the college. Students seeking to transfer should contact the CEHSP Student Affairs Office for procedural information.

All students must apply for admission to upper division after completing the lower division program listed. A 2.50 GPA is required to be admitted to upper division. It is recommended that students apply for upper division during the quarter in which 80 credits are completed.

Academic Progress

Students within the B.A.S. teaching major must maintain a 2.50 GPA for admission to the upper division in compliance with NCATE standards. Eligibility to pursue course work does not imply eligibility to programs, continued candidacy, or graduation from degree programs that require a 2.50 GPA.

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 is also required when enrolled in PEP 1071, 3711, 3731, and 3970. This is usually 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 (see Admission Requirements above).

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. degree program in physical education is offered in conjunction with the Department of Education. Exit standards are published by the Department of Education under the heading *Secondary/K-12 Teacher Licensure Requirements*.

Major (B.A.S.)

Lower Division (72-74)

These courses must be completed with a minimum cumulative GPA of 2.50 before application for admission to upper division status in physical education.

- Anth 1604—Cultur Anthropology
 - or* Soc 1100—Soc, Social Problems (5)
 - Biol 1111—General Biology (5)
 - Chem elective (5)
 - Comp 1120—College Writing (5)
 - Educ 1101—Educ Modern Society (4)
 - Hlth 1000—Developing Wellness (3)
 - Hlth 1610—Emer First Response (3)
 - Hlth 1903—Applied Human Anat (5)
 - Hlth 1905—Prin Hum Physiol (5)
 - Math elective (3-5)
 - PE 1240—Lifeguarding (2)
 - PE 1244—WSI (3)
 - PEP 1000—Tch Elem Games (1)
 - PEP 1002—Tch Stunts Tumbling (1)
 - PEP 1004—Tch Rhythms (1)
 - PEP 1070—Elem PE Methods (4)
 - PEP 1071—Clin Exp: Elem (1)
 - PEP 1100—Tch Apparatus (1)
 - PEP 1200—Tch Track and Field (1)
 - Two courses from the following (2):
 - PEP 1300—Tch Ballroom Dance
 - PEP 1302—Tch Folk Dance
 - PEP 1304—Tch Square Dancing (1 cr)
 - PEP 1400—Tch Tennis (1)
 - PEP 1500—Tch Cross-Country Skiing
 - or* PEP 1502—Tch Alpine Skiing
 - or* PEP 1504—Tch Skating (1)
 - PEP 1600—Tch Physical Fit Wt Tr (1)
 - PEP 1700—Tch Soccer (1)
 - PEP 1710—Tch Volleyball (1)
 - PEP 1720—Tch Basketball (1)
 - PEP 1730—Tch Softball (1)
 - Psy 1003—General Psychology (5)
- See also Teacher Licensure Requirements.

Upper Division (94-95)

Students must be granted upper division status before enrolling in these courses.

- Comp 3140—Adv Writ: Human Serv (4)
- Educ 5301—Student Teach Sem (1)
- Educ 5381—Tch American Indian (4)
- Educ 5500—Prof Issues Tch (4)
- EdSe 3203—Sec Sch Apprentice (4)
- EdSe 3501—Educ Psychology (4)
- EdSe 5100—Hum Relations Class (3)
- EdSe 5300—Student Teaching (7)
- EIEd 3508—Student Tch and Sub K-6 (7)

Additional student teaching may be required for students with more than one teaching major. Contact department for requirements.

- Hlth 3202—Drug Education (2)
- HPER 3000—Org, Adm Hlth, Phy Ed (3)
- PE 3117—Sport, The Amer Soc (3)
- or* Soc 3960—Sociology of Sport (4)
- PEP 3000—Foundations of PE (5)
- PEP 3010—Adapted Physical Ed (3)
- PEP 3020—Motor Learning (3)
- PEP 3030—Human Biomechanics (4)
- PEP 3040—Exercise Physiology (4)
- PEP 3600—Sport Inj Asses, Mgt (4)
- PEP 3701—Assess Strat PE (5)
- PEP 3710—Motor Development (4)
- PEP 3711—Clin Exp: Develop (1)
- PEP 3720—Phy Ed Curriculum (3)
- PEP 3730—Sec PE Methods (4)
- PEP 3731—Clin Exper: Sec (1)
- PEP 3970—Supervised Tch: Col (2)
- Psy 3331—Developmental Psych (5)

Minor

The minor in physical education prepares students pursuing an elementary or secondary education licensure with a background in physical education methodology.

Exercise Science (ES)

(Department of Health, Physical Education & Recreation)

Faculty Coordinator: John Keener

The exercise science major (126-154 credits) prepares students for professional careers in athletic training, adult fitness, exercise science, and associated fields. Majors must select a concentration in athletic training, adult fitness, or exercise science. It is also possible for students to work with an adviser to develop a concentration in some other area related to exercise science. All students must apply for admission to upper division after completing the lower division core and concentration listed. The upper division concentration must correspond to the lower division concentration completed. Students should meet with their adviser or the faculty coordinator before selecting a concentration. It is recommended that upper division papers be filed during the quarter in which 80 credits are completed.

Admission Requirements

Refer to Admission Procedures. Students transferring from other colleges or academic units must have a minimum GPA of 2.00 to transfer into the college. Students seeking to

transfer should contact the CEHSP Student Affairs Office for procedural information. Transfer students must meet with the exercise science faculty coordinator before the transfer process can be completed.

Academic Progress

Students within the B.A.A. exercise science major must maintain a 2.50 GPA for admission to the upper division in compliance with departmental standards. Eligibility to pursue course work does not imply eligibility to programs, continued candidacy, or graduation from degree programs that require a 2.50 GPA.

Maintenance Standards

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

Transfer Students

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

Major (B.A.A.)

Lower Division (58-74)

(Pre-professional program)

These courses must be completed with a minimum GPA of 2.50 to apply for admission to upper division status in exercise science.

- Biol 1111—General Biology (5)
- Biol 1112—Animal Biology (5)
- Chem 1101—Aspects of Chemistry
or Chem 1110—General Chemistry (5)
- Comp 1120—College Writing (5)
- Hlth 1470—Human Nutrition (3)
- Hlth 1610—Emer First Response (3)
- Hlth 1903—Applied Human Anat (5)
- Hlth 1905—Prin Hum Physiol (5)
- Math 1156—Finite Mathematics (4)
- Psy 1003—General Psychology (5)

Select one concentration:

Adult Fitness (15)

- PE 1240—Lifeguarding (2)
- PE 1244—WSI (3)

- Approved elective from PE or PEP 1000-1799 (5)
- Soc 1100—Sociology, Social Problems (5)

Exercise Science (29)

- Biol 1113—Plant Biology (5)
- Chem 1111—General Chemistry (5)
- Chem 1112—General Chemistry (5)
- Math 1160—Calc: Short Course (4)
- Phys 1101—Intro to Physics (5)
- Phys 1102—Intro to Physics (5)

Athletic Training (13)

- Hlth 1104—Hlth Sci Terminology (3)
- Hlth 1800—Emergen Med Care I (4)
- Hlth 1801—Emergen Med Care II (4)
- Hlth 1805—Emergen Care Pract (2)

Upper Division (68-80)

Students must be granted upper division status before enrolling in these courses. A minimum GPA of 2.50 in lower division courses is required for admittance to the upper division. Contact department for other requirements.

- Comp 3140—Adv Writ: Human Serv
or Comp 3150—Adv Writ: Science (4)
- HPER 3000—Org, Adm Hlth, Phy Ed
or PE 3117—Sport, The Amer Soc (3)
- PE 3470—Prin Sport Nutr (3)
- PEP 3010—Adapted Physical Ed (3)
- PEP 3020—Motor Learning (3)
- PEP 3030—Human Biomechanics (4)
- PEP 3040—Exercise Physiology (4)

Concentration (must correspond to lower division):

Adult Fitness (47-56)

- PE 5470—Sport Nutrition (3)
- PEP 3400—Exercise Test, Prcpt (3)
- PEP 3500—Facilities Mgt (3)
- PEP 3940—Phy Ed Internship (6-12)
- Approved upper division PE or PEP electives (15)
- Psy 3020—Basic Stat Methods (5)
- Approved upper division Psy electives (12-15)

Athletic Training (44-50)

- Hlth 3202—Drug Education (2)
- PE 5470—Sports Nutrition (3)
- PEP 3600—Sport Ing Asses, Mgt (4)
- PEP 3610—Therapeutic Exercis (3)
- PEP 3900—Practicum: Phys Ed (6)
- PEP 3940—Phy Ed Internship (6-12)
- PEP 5600—Prev, Care Ath Inj (3)
- Electives from PEP 3500, 5200-5410, 5900 (9)
- Psy 3020—Basic Stat Methods (5)
- Psy 3231—Psy of Drug Use (3)

Exercise Science (46-52)

- Biol 3245—Cellular Biology (4)
- Chem 3311—Biochemistry (4)
- PE 5470—Sports Nutrition (3)
- PEP 3400—Exercise Test, Prcpt (3)
- PEP 5300—Adv Analy Hum Per (3)
- PEP 5310—Compute Videography (3)
- PEP 5400—Exp Exercise Physio (3)
- PEP 5410—Applied Physio (3)
- PEP 5820—Ind Study (6-12)
- PEP 5900—Seminar (3)
- Psy 3020—Basic Stat Methods (5)
- Approved upper division elective (6)

Special area of interest (minimum 64 cr)—Lower division core, upper division core, plus a minimum of an additional 64 cr of upper and lower division courses, approved by the department curriculum committee before filing upper division papers.

Physical Science Teaching

Adviser: Boman (Education)

Teaching Physical Science Major (B.A.S.)

This program (138 credits) is for students who intend to teach physical science, chemistry, and physics in secondary schools.

Lower Division (44)

Chem 1110-1111-1112
 or Chem 1130H-1131H-1132H—Gen Chem (15)
 Educ 1101—Educ in Mod Society (4)
 Math 1296-1297—Calculus I-II (10)
 Phys 1107-1108-1109—Gen Physics (15)

Upper Division (94)

Chem 3512-3513—Org Chem (10)
 or Chem 3540-3541-3542—Org Chem (13)
 Chem 3210—Intro Quant Analysis (5)
 Comp 3140—Adv Writ: Human Serv (4)
 Educ 5234—Sci, Technol, Soc (4)
 Educ 5301—Student Teach Sem (1)
 Educ 5381—Tch American Indian (4)
 Educ 5500—Prof Issues Tch (4)
 EdSe 3203—Sec Sch Apprentice (4)
 EdSe 3204—Gen Instruct Method (4)
 EdSe 3501—Educ Psychology (4)
 EdSe 5100—Hum Relations Class (3)
 EdSe 5255—Teaching Sec Sci (4)
 EdSe 5300—Student Teaching (14)
 Hlth 3202—Drug Education (2)
 Phys 3071—Physics Laboratory (1)
 Phys 3500—Modern Physics (4)
 Two courses from Phys or Engr (3-4)
 Sufficient electives from 3xxx and 5xxx chemistry and physics courses to bring the total to 42 upper division chemistry and physics credits. Strongly recommend: Phys 3098—Physics Tutorial Project (0-2)
 See Teacher Licensure Requirements and CEHSP degree requirements.

Physics Teaching

Teaching Physics Minor

This program (45-47 credits) is for students who wish to teach less than half time in physics, grades 7-12. This minor may be taken in combination with any teaching major.

Lower Division (25)

Math 1296-1297—Calculus I-II (10)
 Phys 1107-1108-1109—General Physics (15)

Upper Division (20-22)

Educ 5234—Sci, Technol, Soc (4)
 EdSe 5255—Teaching Sec Sch Sci (4)
 Phys 3071—Physics Laboratory (1)
 Phys 3098—Physics Tutor Proj
 or Phys 3981—Physics Seminar (1)
 Phys 3500—Modern Physics (4)
 Two courses from Psy or Engr (3-4)

Psychology and Mental Health (Psy)

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

This department is committed to excellence in teaching, research, and service. Its purposes are to offer students a firm grounding in the discipline; to contribute to the liberal education goals of the University; to provide the community with people trained to apply psychological principles constructively; to prepare students for advanced study; to contribute to the advancement of psychology through research and other scholarly activities; and to enhance the professional development of the staff.

Honors Program

Senior psychology majors who have a GPA of at least 3.25 in psychology and 3.00 overall are eligible for honors work. Honors work may be completed as an individual honors research project (Psy 3977), as an honors project (Psy 3997) under the direction of an adviser selected by the student, or by taking Honors Seminar (Psy 3995). Eligible students are urged to consult their adviser and program staff members before the end of their junior year.

Major (B.A.—CLA)

The psychology major (76 credits) for the B.A. in the College of Liberal Arts provides a firm grounding in the discipline. Students are prepared for graduate study leading to advanced degrees in psychology or for paraprofessional positions requiring the application of research and human service delivery skills. The program curriculum covers methods employed in the scientific study of behavior and surveys theories, findings, and applications in a variety of the discipline's many content areas. A relatively thorough analysis of learning, social, personality, and developmental processes is included, and students have the opportunity to select other content areas for more extensive study. In addition, a considerable portion of the curriculum is devoted to the development of research skills.

Lower Division (16)

Biol 1102—Biology and Society (5)
 Psy 1003—General Psychology (5)
 At least 3 credits each from computer science and philosophy (6)

Upper Division (60)

Comp 3160—Adv Writ: Soc Sci (4)
 Psy 3020—Basic Stat Methods (5)*
 Psy 3021-3022—Exper Design, Meth (10)
 Psy 3081—Systems of Psy (4)
 Psy 3111—Psy of Personality (4)
 Psy 3201—Social Psychology (4)
 Psy 3331—Developmental Psych (5)
 Psy 3611—Learning, Condition (4)
 Electives in psychology numbered above 3000 (20)

* *At least the equivalent of elementary algebra is required for 3020. Depending on their math placement score, students may be required to complete math credits that may not count toward minimum credits required for graduation.*

Minor

The minor (24 credits) in psychology provides a basic survey of psychological theories and findings with particular emphasis on applied human settings.

Lower Division (5)

Psy 1003—Gen Psychology (5)

Upper Division (19)

Psy 3331—Developmental Psychology (5)
 Electives in psychology numbered above 3xxx (excluding 3980 and 3990) (14)

Major (B.A.S.)

The bachelor in applied science (B.A.S.) psychology program focuses on the acquisition of skills and basic knowledge related to direct human services delivery. The program (187 credits) consists of four years of study, including two one-quarter internship placements in human service facilities. Admission is by application to the head of the Department of Psychology and Mental Health. The number of students will be limited, and students are encouraged to apply by the end of the freshman year. Admission to the program requires a 2.50 overall GPA. Enrollment in the senior internship also requires a 2.50 overall GPA. The program description includes all requirements for the B.A.S. degree.

Lower Division (74)

Biol 1102—Biology and Society (5)
 Comm 1202—Interpersonal Comm (3)
 Comp 1120—College Writing (5)
 Educ 1100—Human Diversity (4)
 Hlth 1610—Emer First Response (3)
 Psy 1003—General Psychology (5)

Psy 1101—Human Serv Seminar (1)
 Psy 3331—Development Psych (5)
 Soc 1100—Soc, Social Problems (5)
 Courses to complete liberal education requirement (38)

Upper Division (113)

Comp 3140—Adv Writ: Human Serv (4)
 Psy 3020—Basic Stat Methods (5)*
 Psy 3021-3022—Exper Design, Meth (10)
 Psy 3121—Abnormal Psychology (4)
 Psy 3211—Group Dynamics (3)
 Psy 3231—Psy of Drug Use (3)
 Psy 3524—Basic Help Skills (5)
 Psy 3821—Psy Measurement (3)
 Psy 3985—Fld Pl Spec Counsel (9)
 Psy 3986—Preprof Field Place (12)
 Psy electives numbered above 3000 (20)
 A minor field or supporting electives numbered above 3000 (35)

* *At least the equivalent of elementary algebra is required for 3020. Depending on their math placement score, students may be required to complete additional math credits that may not count toward minimum credits required for graduation.*

Recreation (Rec)

(Department of Health, Physical Education & Recreation)

Faculty Coordinator: Kenneth L. Gilbertson

Major (B.A.S.)

The recreation major (108 credits) provides students with knowledge and experiences necessary to furnish programming in recreational sport and outdoor recreation settings. It offers course work in human services, facility management, program design and evaluation, recreational sport in society, theories of recreation, and principles of recreation management. It also includes one full plus one partial quarter of field placement in recreational sport or outdoor recreation facilities.

Admission is by application to the Department of Health, Physical Education & Recreation and requires a 2.00 overall GPA. Enrollment in the senior internship and practicum requires an overall GPA of 2.50. Students are encouraged to apply by the end of their freshman year.

Lower Division (47)

Biol 1111—General Biology (5)*
 Comm 1112—Public Speaking (4)*
 Hlth 1000—Developing Wellness (3)
 Hlth 1700—Advanced First Aid (3)
 and Hlth 1701—Cardiopul Resuscitation (2)
 or Hlth 3600—Wilderness Emerg Care (5)
 Hlth 1903—Applied Human Anatomy (5)
 Hlth 1905—Prin Human Physiology (5)
 Psy 1003—General Psychology (5)*

- Rec 1000—Recreation and Leisure Today (5)
- Rec 1206—Fall Outdoor Rec (2)
- Rec 1207—Winter Outdoor Rec (2)
- Rec 1208—Spring Outdoor Rec (2)
- Electives (4) from PE 1200-1710*, PEP 1100-1730

Upper Division (61)

- Comp 3140—Adv Writ: Human Services
or Comp 3160—Adv Writ: Social Sciences (4)
 - Educ 5163—Outdoor Education Methods (3)
 - Hlth 3150—Health Program Eval (3)
 - HPER 3000—Org, Adm Hlth, Phy Ed (3)
 - HPER 3100—Risk Mgt, HPER Programs (3)
 - PEP 3500—Facilities Mgmt (3)
 - Rec 3300—Recreation Progr (3)
 - Rec 3310—Recreation Leadership (3)
 - Rec 3320—Recreational Sports (3)
 - Rec 3325—Life Fitness Prog Devel (3)
 - Rec 3900—Recreation Internship (15)
- Electives from the following, with approval of instructor and adviser (15)
- Educ 3601—Wilderness Philosophy (3)
 - Educ 5165—Models, Theories Outdoor Educ (2)
 - PE 3220—Ind Sports Training Prog (2)
 - PE 3470—Principles of Sports Nutrition (3)
 - PEP 3020—Motor Learning (3)
 - PEP 3030—Human Biomechanics (4)
 - PEP 3040—Exercise Physiology (4)
 - Rec 3327—Recreation Event Mgmt (3)
 - Rec 3350—Recreation Practicum (3)
 - Rec 3910—Recreation Seminar (3)
 - Rec 3950—Independent Study (1-6)
 - Rec 3952—Readings in Recreation/Leisure (1-6)
 - Soc 1500—Intro Social Science Res Methods (4)

* *Fulfills a liberal education requirement*

Minor (37)

Lower Division

- Hlth 1700—Advanced First Aid (3)
- Rec 1000—Rec, Leisure Today (5)
- Electives selected from Rec 1100 through 1999 or PE 1200 through 1799; all selections must be approved by the department (6)

Upper Division

- Rec 3300, 3350, 3600 (11)
- Electives, approved by the department, from courses numbered above 3000, including at least 9 Rec credits (12)

Science Teaching

- Teaching Chemistry Minor—
See Chemistry Teaching
- Teaching Earth Science Major and Minor—
See Earth Science Teaching
- Teaching Elementary School Science Minor—
See Elementary School Science Minor
- Teaching Life Science Major and Minor—
See Life Science Teaching
- Teaching Middle School-Junior High School
Science Major—See Middle School-Junior
High School Science Teaching

- Teaching Physical Science Major—
See Physical Science Teaching
- Teaching Physics Minor—See Physics Teaching

**Secondary Teacher
Education Program**

(Department of 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.

Although a teaching *minor* is not required for a B.A.A. or B.A.S. degree, students may find it makes them more employable. Currently, a school system may assign teachers no more than half time in their minor area, and a teaching minor must be upgraded to a teaching major within seven years of initial licensure. Students electing a teaching minor usually are required to take the methods course in that area and do part of their student teaching in that area. For details, consult an adviser or department head of the Department of Education.

Admission

Students entering the secondary and K-12 licensure program will be bound by the policies in effect at the time of application to the licensure program. Admission is noncompetitive but based on criteria established by the Department of Education. Admission standards are consistent with Minnesota policies and standards established by the National Council for Accreditation in Teacher Education (NCATE).

To be considered for admission, a student must have an overall GPA of at least 2.50 and at least 2.50 in those courses in the major completed at the time of application. Also required is performance at a criterion level on the Comprehensive Test of Basic Skills (CTBS) or passing scores on all parts of the PPST or 50 percentile on all parts of the ACT (national norms) or 50 percentile on the SAT (national norms) or 50 percentile on the GRE (education norms), a completed application, a current transcript, a personal statement of Why I Want to Be a Teacher, and a copy of APAS. To be considered for student teaching, a student must have maintained an overall and major GPA of

at least 2.50 and have no grades lower than a C- in major content courses. Specific program admission requirements and procedures may be obtained from the Department of Education. Students must preregister for student teaching the spring quarter before the academic year in which they expect to student teach.

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 will be accepted each quarter. Applications must be submitted by the end of the third week of the quarter before the quarter of admission.

Maintenance Standards

To continue as secondary education or K-12 education majors, students must make satisfactory academic progress, demonstrate acceptable professional performance in their field experiences, and demonstrate satisfactory accommodation of any physical or sensory limitations that have been identified in advance as conditions that need to be accommodated to perform the essential elements of the chosen teaching program. Determination of impairment, accommodation methods, and evaluations will be made in consultation with the student, the program adviser, and the Access Center. Students who do not meet these standards may be dropped from the program.

Exit Standards

Before being recommended for licensure, students must demonstrate satisfactory performance outcomes required by the program and have acceptable ratings from both the classroom and University supervisors for student teaching performance.

Personal Liability Insurance

Students must have personal liability insurance to protect them while they are working in public school classrooms. This is usually obtained most economically with a student membership in the Minnesota Education Association or in the Minnesota Federation of Teachers. 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.

Other Professional Concerns

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

Information on obtaining teaching positions is available from the Career Services office in the Darland Administration Building.

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

Students who desire special endorsements and licensure in coaching, special education, and other areas should refer to those sections in this bulletin.

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

Secondary/K-12 Teacher Licensure Requirements

Educ 1101—Educ in Mod Society (4)
 Educ 5301—Student Teach Sem (1)
 Educ 5381—Tch American Indian (4)
 Educ 5500—Prof Issues Tch (4)
 EdSe 3203—Sec Sch Apprentice (4)
 EdSe 3204—Gen Instruct Method (4)
 EdSe 3501—Educ Psychology (4)
 EdSe 5100—Hum Relations Class (3)
 EdSe 5300—Student Teaching (14)
 Hlth 3202—Drug Education (2)
 Methods of teaching in the licensure area (3-5)

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)
- A cumulative GPA of at least 2.50 in the major and an overall GPA of at least 2.50
- Completion of 75 percent of teaching major courses and 75 percent of teaching minor courses
- Recommendation of special methods instructor(s) and education department head
- Preregistration for student teaching in all quarters of an academic year will be during

the preceding spring quarter. This preregistration gives priority to students for placement in student teaching assignments.

Students preparing for secondary school licensure must spend at least one quarter in full-time student teaching in a junior 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 14 credits must be earned in this course plus 1 credit of student teaching seminar. Additional credits may be required for certain major/minor combinations. Student teaching is normally done in the senior year.

See also Teacher Licensure Requirements.

Social Studies Teaching

Faculty Coordinator: Rallis

The major (148-150 credits) prepares social studies teachers for secondary school teaching.

Social Studies Teaching Major (B.A.A.)

Social studies is an interdisciplinary major, requiring basic lower division course work (60-62 cr) from the seven areas of anthropology, economics, geography, history, political science, psychology, and sociology; an upper division concentration in one of the above areas (28 cr); a non-western history course (4); an American Indian teaching course (4); and a total of 8 additional credits in at least two other social science areas. To receive a Minnesota teaching license, students are required to take 44 credits of the professional education sequence. Minnesota issues a broad area social studies 7-12 teaching license, not a license to teach specific areas such as history or geography.

Lower Division (60-62)

Anth 1602—Prehist Cultures (5)
 Anth 1604—Cultur Anthropology (5)
 Econ 1004—Prin Econ: Micro (4)
 Econ 1005—Prin Econ: Macro (4)
 Geog 1201—World Regional Geog (4)
 Geog 1413—Physical Geography (5)

One from:

Hist 1304—American Heritage (4)
 Hist 1305—American Challenges (3)

One from:

Hist 1156—English Inheritance (4)
 Hist 1207—Dawn Modern Europe (4)
 Hist 1208—Europe Modern Age (4)
 Pol 1011—American Govt, Pol (4)

One from:

Pol 1050—Int Relations (4)
 Pol 1500—Contemp Pol Syst (4)
 Pol 1610—Cont Pol Ideologies (4)
 Psy 1003—General Psychology (5)
 Psy 3531—Psy of Personal Adj (3)
 or Educ 1000—Human Develop (4)
 or Psy 3331—Developmental Psych (5)
 Soc 1100—Soc, Social Problems (5)
 Soc 1200—Intro to Family
 or Soc 1300—Intro to Criminol (4)

Upper Division (88)

Concentration (28)

Select *one* of the seven social science fields, and complete the 28-credit concentration as specified for each field.

Non-Western History (4)

One from:

Amln 1115—Chippewa Hist, Cult (4)
 Hist 3462—Hist of Mod Japan (4)
 Hist 3463—Hist of Mod China (4)
 Hist 3510—Pr Colonial Africa (4)
 Hist 3511—Modern Africa (4)
 Pol 3520—Chinese Gov/Politic (4)
 Pol 3530—Gov/Politics, Japan (4)
 Pol 3570—Third World, Devel (4)
 Span 1580—Hispanic Cultures (4)

American Indian Issues:

Educ 5381—Tch American Indian (4)

Other upper division social studies electives (8)

Choose two other social science fields, different from the field of concentration, and complete a total of 8 credits from the two fields.

Required Education Courses (44)

Educ 1101—Educ in Mod Society (4)
 Educ 5301—Student Teach Sem (1)
 Educ 5500—Prof Issues Tch (4)
 EdSe 3203—Sec Sch Apprentice (4)
 EdSe 3204—Gen Instruct Method (4)
 EdSe 3501—Educ Psychology (4)
 EdSe 5100—Hum Relations Class (3)
 EdSe 5244—Tch Soc Std—Sec (4)
 EdSe 5300—Student Teaching (14)
 Hlth 3202—Drug Education (2)

Social Studies Concentrations:

Anthropology Concentration (28)

Anth 5626—Devel Anthro Theory (4)
 Soc 3500—Res Method, Analysis (4)
 Soc 3520—Quant Res Methods
 or Soc 3530—Qualit Res Methods (4)
 Electives in 3xxx or 5xxx Anth courses (16)

Economics Concentration (28)

Econ 3104—Microecon Analysis (4)
 Econ 3105—Macroecon Analysis (4)
 Electives in 3xxx or 5xxx courses (20)

Geography Concentration (28)

- Geog 3412—Weather and Climate (4)
 Geog 3701—Geog of US Canada (4)
 or Geog 3706—Geography Minnesota (3)
 Geog 5611—Field Techniques (4)
 Geog 5802—Geographic Thought (4)
 One topical cultural geography course from:
 3103, 3112, 3142 (4)
 One topical economic geography course from:
 3332, 3341, 3351 (4)
 Elective in 3xxx or 5xxx course to reach a total of 28 cr (4-5)

History Concentration (28)

Choose from the following (no more than 12 credits in any one group):

Group I: American History

- Hist 3314, 3315—19th-Century Am (8)
 Hist 3328—US at War: 20th Cent (4)
 Hist 3330—Am Reform Movements (4)
 Hist 3357—Women in Am Hist (4)
 Hist 3361—The American City (4)
 Hist 3364—Soc Hist in America (4)
 Hist 3367—Civil Rights Move (4)
 Hist 3384, 3385—Am Foreign Relat (8)

Group II: European History

- Hist 3110—Makers, Renais Era (4)
 Hist 3111—Age of Reformation (4)
 Hist 3241—Europe In Revolution (4)
 Hist 3242—Europe In Ascendance (4)
 Hist 3243—Europe in Crisis (4)
 Hist 3256—Making Mod Britain (4)
 Hist 3264, 3265—History of Russia (8)
 Hist 3266—Sov, Post-Sov Union (4)
 Hist 3270—Soviet Cinema, Society (4)
 HmCl 3020—Age of Heroes: Homer (4)
 HmCl 3030—Roman Republic (4)
 HmCl 3040—Roman Empire (4)
 HmCl 3055—Ancient Near East (4)
 HmCl 3150—Ancient Egypt Cult (4)
 HmCl 3333—Homer to Alexander (4)

Group III: Asian History

- Hist 3462—Hist Mod Japan (4)
 Hist 3463—Hist Mod China (4)

Group IV: Research and Writing/Methodology

- Each student must include either Comp 3100 or Comp 3160 and at least one 5xxx seminar or one Directed Study sequence course (Hist 5005-5006-5007)
 Hist 3500—Colloquium (1-2)

Political Science Concentration (28)

Choose from the following (no more than 12 credits in any one group):

Category I: American Politics

- Pol 3001—Intro Am Pub Policy (4)
 Pol 3020—State Government (4)
 Pol 3030—Urban Gov, Politics (4)
 Pol 3040—Women and Politics (4)
 Pol 3070—Civil Liberties (4)
 Pol 3080—Environment, Politic (4)
 Pol 3130—Judicial Process (4)
 Pol 3140—Amer Pol Part, Elec (4)
 Pol 3150—Am Constitut Law I (4)
 Pol 3151—Am Constitut Law II (4)
 Pol 3152—Am Constitut Law III (4)
 Pol 3160—Legislative Process (4)

- Pol 3170—Pol Interest Ind, Gp (4)
 Pol 3221—Intro to Pub Admin (4)
 Pol 3310—Pub Opin, Propaganda (4)
 Pol 3325—American Chief Exec (4)
 Pol 5190—Sem: Public Policy (4)
 Pol 5390—Sem: Urban Affairs (4)

Category II: International Politics

- Pol 3400—Topics World Pol (4)
 Pol 3402—Am For, Def Policy (4)
 Pol 3415—International Law (4)
 Pol 3424—Power Politics (4)
 Pol 3425—Comp Foreign Policy (4)
 Pol 3426—Intl Organization (4)
 Pol 3460—Int Pol Econ (4)
 Pol 5490—Sem: Int Relations (4)

Category III: Comparative Politics

- Pol 3510—Rus/Soviet Politics (4)
 Pol 3512—Post-Soviet, Dom For Pol (4)
 Pol 3517—W Eur Pol Systems (4)
 Pol 3520—Chinese Gov, Politic (4)
 Pol 3570—Third World, Devel (4)
 Pol 5510—Comp Public Policy (4)
 Pol 5590—Sem: Compar Politics (4)

Category IV: Political Theory

- Pol 3610—Pol Econ: An Intro (4)
 Pol 3620—Feminist Theory (4)
 Pol 3625—Democratic Theory (4)
 Pol 3640—Non-Violence Theory (4)
 Pol 3651—Class Pol Thought (4)
 Pol 3652—Early Modern Pol (4)
 Pol 3653—Recent Pol Thought (4)
 Pol 3720—Pr Leadership, Power (4)
 Pol 5610—Contemp Pol Theory (4)
 Pol 5690—Sem: Pol Theory (4)

Independent study and special topics courses may be applied to any of the four categories if the subject matter is appropriate.

Psychology Concentration (28)

Any choice of electives. Suggested titles include:

- Psy 3020—Basic Stat Methods (5)
 Psy 3021—Exper Design, Meth (5)
 Psy 3111—Psy of Personality (4)
 Psy 3121—Abnormal Psychology (4)
 Psy 3201—Social Psychology (3)
 Psy 3211—Group Dynamics (3)
 Psy 3215—Topic in Hum Sex (3)
 Psy 3221—Chg Role of Women (4)
 Psy 3231—Psy of Drug Use (3)
 Psy 3331—Developmental Psych (5)
 Psy 3371—Child, Adoles Psy (3)
 Psy 3611—Theories of Learning (4)
 Psy 3960—Sp Topics in Psych (1-4)

Sociology Concentration (28)

- Soc 3400—Contemp Soc Theory (4)
 Soc 3500—Res Method, Analysis (4)
 Soc 3700—Social Psychology (4)
 Soc 3800—Social Organization (4)
 Soc 3820—Sociology of Commun
 or Soc 3845—Bureaucracy, Society (4)
 Soc 3900—Soc Issue, Soc Chg (4)
 Electives in 3xxx or 5xxx courses (4)

Social Science (Elementary) Minor

This minor (51 credits) provides a program of studies in social science for prospective elementary school teachers.

Lower Division (39)

- Anth 1604—Cultur Anthropology (5)
- Econ 1004—Prin Econ: Micro (4)
- Econ 1005—Prin Econ: Macro (4)
- Geog 1303—Cultural Geography (4)
- Geog 1413—Physical Geography (5)
- Hist 1304—American Heritage (4)
- Hist 1305—American Challenges (4)
- Pol 1011—American Govt, Pol (4)
- Soc 1100—Soc, Social Problems (5)

Upper Division (12)

Electives in social science courses numbered 3000 or above in at least three different departments including geography and history (12)

Social Work (SW)

Professors: Dennis R. Falk, Joyce M. Kramer, Donald E. Maypole; *Associate Professors:* Kathleen E. Nuccio, Melanie F. Shepard (department head); *Assistant Professors:* Priscilla Day, R. Michael Raschick

For M.S.W. program description see the Graduate School section. The master of social work is accredited by the Council on Social Work Education.

Spanish Teaching

Teaching Spanish Major (B.A.A.)

The B.A.A. major in teaching Spanish is offered through the Department of Education in conjunction with the Department of Foreign Languages and Literatures.

This major (72-100 credits) prepares Spanish teachers for secondary school teaching.

Lower Division (4-32)

Core program—See B.A. requirements, CLA
Educ 1101—Educ in Mod Society (4)

Upper Division (68)

- Educ 5301—Student Teach Sem (1)
 - Educ 5381—Tch American Indian (4)
 - Educ 5500—Prof Issues Tch (4)
 - EdSe 3203—Sec Sch Apprentice (4)
 - EdSe 3204—Gen Instruct Method (4)
 - EdSe 3501—Educ Psychology (4)
 - EdSe 5100—Hum Relations Class (3)
 - EdSe 5300—Student Teaching (14)
 - Hlth 3202—Drug Education (2)
 - Lang 3801—Tch Nonnative Lang (4)
- See also Teacher Licensure Requirements.

Plus 24 credits of upper division courses in Spanish; with prior approval of the student’s adviser, a maximum of 5 credits directly related to the student’s program may be taken from other departments. Some of the 24 credits may be transferred from another college or earned abroad, but at least 8 must be taken in the department. Each student is encouraged to write a research paper in the senior year.

A student majoring in teaching Spanish must pass an oral proficiency exam, which should be taken at the end of Span 3002. The examination may be repeated if needed. The B.A.A. candidate must pass the oral proficiency exam and have completed Lang 3801 before being admitted to EdSe 5300. All B.A.A. majors in teaching Spanish must complete student teaching in Spanish for licensure.

Teaching Spanish Minor

This minor (12-40 credits) is for students planning to teach Spanish in secondary schools.

Lower Division (0-28)

Core program—See B.A. requirements, CLA

Upper Division (12)

- Lang 3801—Tch Nonnative Lang (4)
- Span 3580—Hispan Am Civ, Cult
or Span 3581—Span Civ, Culture (4)

Plus 4 credits of upper division Spanish courses with prior approval of student’s adviser.

The B.A.A. candidate must pass the oral proficiency exam and complete Lang 3801 before being admitted to EdSe 5300. All B.A.A. minors in teaching Spanish must complete student teaching in Spanish for licensure.

Special Education (SpEd)

(See Department of Education)

Faculty: Karp, Keller, Reinhiller

The programs in special education prepare highly skilled and competent teachers to deliver quality services to children and youth with various types of disabling conditions.

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

The three licensure programs that are offered are 1) emotional and behavior disorders (E/BD), 2) learning disabilities (LD), and 3) special education/early childhood (SpEd/ECh).

Undergraduates in ECh should seek advising and apply early in their sophomore

year. Practicing teachers and graduate students may take the program on a part-time basis that will involve a minimum of six academic quarters and at least one summer session for completion.

Admission to Candidacy Requirements

Admission to special education is limited and is based on a rank ordering of the following factors:

- A minimum overall GPA of 2.70 is required for consideration of an application. (Applicants to SpEd/ECh should also consult requirements for Early Childhood Studies.)
- Three supportive letters of reference.
- Ratings of perceived professional qualities, based on specified variables, as determined through individual interviews with professionals in the field and program faculty.
- Quality of written personal statement.

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

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

Maintenance Standards

Students who do not maintain satisfactory levels of progress (GPA of 2.70 in all program-required courses, and acceptable performance in their field experiences) will have their candidacy rescinded. Courses in which a passing grade of C+ or lower is received will not be counted toward meeting licensure requirements, although such courses may be used for meeting other degree 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 completed their student teaching practicum satisfactorily.

Personal Liability Insurance

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

Grievance Procedure

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

Specialization in Emotional and Behavior Disorders (E/BD)

Licensure Program (60-64)

Prerequisites (8-11)

Students with elementary education backgrounds must complete one course or course components in adolescent growth and development and EdSe 5111—Directed Study: Secondary School Curriculum and Administration.

Students with secondary education backgrounds must complete one course or course components in child growth and development and EIEd 3113 or EIEd 5401.

All students must satisfy the following prerequisites or equivalents:

EIEd 3355—Tchg Math-Elem (3)

EIEd 3375—Teaching Comm I (3)

Special Education Core Courses (19)

Educ 5433—Foundations in CFD (4)

Educ 5435—Sys Persp C & F Prog (4)

SpEd 5202—Behav Analysis/Spec Ed (4)

SpEd 5203—Assess in Spec Ed (4)

SpEd 5305—Except in Classrm (3)

E/BD Specialization Sequence (33-34)

Psy 5122—Dev Psychopathology (4)

or Psy 5521—Counseling Procedures (3)

or SW 5267—Issues in American Indian Mental Health (3)*

or SW 5275—Dynamics of American Indian Families (3)

SpEd 5327—Transitional Needs (3)*

SpEd 5352—Intrctnl Rdn Instr (4)*

SpEd 5353—Math in Sp Ed (4)*

- SpEd 5381—Behavior and Emotional Disorders of Children and Youth (3)
- SpEd 5382—Managing Disruptive Behavior (3)
- SpEd 5384—E/BD Assessment, Curriculum, and Instruction (4)*
- SpEd 5600—Spec Area Practicum (9)

* Offered alternate years

To be licensed in E/BD, students who have completed the above program must have completed a teaching degree in elementary or secondary education or the requirements for a Classroom Teaching License Exemption. They must also have met the current drug education and human relations requirements for licensure.

Specialization in Learning Disabilities (LD)

Licensure Program (54-59)

Prerequisites (8-11)

Students with elementary education backgrounds must complete one course or course components in adolescent growth and development and EdSe 5111—Directed Study: Secondary School Curriculum and Administration.

Students with secondary education backgrounds must complete one course or course components in child growth and development and EIEd 3113 or EIEd 5401.

All students must satisfy the following prerequisites or equivalents:

- EIEd 3355—Tchg Math—Elem (3)
- EIEd 3375—Teaching Comm I (3)

Special Education Core Courses (16)

- Educ 5433—Foundations in CFD (4)
- Educ 5435—Sys Persp C & F Prog (4)
- SpEd 5202—Behav Analysis/Spec Ed (4)
- SpEd 5203—Assess in Spec Ed (4)

LD Specialization Sequence (27)

- SpEd 5307—Lang Bas Acad Sk (3)*
- SpEd 5327—Transitional Needs (3)*
- SpEd 5351—Interventions in LD (4)
- SpEd 5352—Intrctnl Rdng Instr (4)*
- SpEd 5353—Math in Sp Ed (4)*
- SpEd 5600—Spec Area Practicum (9)

* Offered alternate years

To be licensed in LD, the student who has completed the above program must have completed a teaching degree in elementary or secondary education or the requirements for a Classroom Teaching License Exemption. They must also have met the current drug education and human relations requirements for licensure.

Specialization in Special Education/Early Childhood (SpEd/Ech)

Licensure Program (65)

Special Education Core Courses (16)

- Educ 5433—Foundations in CFD (4)
- Educ 5435—Sys Persp C & F Prog (4)
- SpEd 5202—Behav Analysis/Spec Ed (4)
- SpEd 5203—Assess in Spec Ed (4)

Early Childhood Core Courses (21)

- ECh 3106—Prog for Young Ch
or ECh 5107—Is Ed Young Learn (4)
- ECh 5233—Comm Arts Curricula (4)
- ECh 5235—Cog, Soc Skills Curr (4)
- ECh 5553—Pract Group Setting
or ECh 5555—Pract Home Based (6)
- Psy 5311—Child Devel: Theor (3)

Special Education/Early Childhood Specialization Sequence (28)

- CD 5110—Normal Lang Develop (4)
- CD 5479—Child Lang Dis (3)
- SpEd 5361—Infan, Tod Sp Need (4)
- SpEd 5362—Presch Spec Needs (4)
- SpEd 5363—Early Spec Educ Cur (4)
- SpEd 5600—Spec Area Practicum (9)

To be licensed in SpEd/ECh, the student who has completed the above program must have earned a baccalaureate degree.

Special Education:

Classroom Teaching License Exemption

- Educ 1000—Human Develop (4)**
or Psy 3371—Child & Adoles Psych (3)**
- Educ 3333—Lng Environ, Act Res (3)**
or Educ 5850—Clasrm Learn Appl (3)
or EdSe 3501—Educ Psychology (4)
- Educ 5300—Practicum in Education (3)**
- Educ 5433—Foundations in CFD (4)*
- Educ 5435—Sys Persp C & F Prog (4)*
- EIEd 3355—Teach Math: Elem (3)**
or EIEd 5345—Teaching Math, Science (5)
or EdSe 5222—Teaching Sec Sci (5)
- EIEd 3375—Teaching Communication I (3)**
- EIEd 5401—Elementary Curriculum (3)**
- EIEd 5900—Independent Study: Writing (2)**
- EdSe 5111—Directed Study: Second Curr (2)**

* Credits that are requirements for UMD LD and E/BD programs

** Credits that are prerequisites for UMD LD and E/BD programs