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## Secondary Education Form B: Objectives and Requirements 09/29/2004

Curriculum Committee

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# Curriculum Committee Form B: Discipline Objectives and Requirements

All changes become effective the fall semester following Campus Assembly approval.

Date: 09/29/04

Discipline/Division: Secondary Education - Education

## I. Introductory Statement:

This discipline is in the Division of Education. A separate admissions process must be completed and admission granted before students can enroll in this program.

The secondary education program leads to Minnesota licensure as a teacher in specified liberal arts disciplines.

## II. Objectives:

**Objectives**—Coursework in secondary education is designed to meet standards of effective practice required for licensure and provide prospective teachers with opportunities to understand central concepts, tools of inquiry, and structures of disciplines taught in the middle and secondary school; understand adolescent development theory, individual and group motivation and diversity among learners; create instructional opportunities adapted to learners from diverse cultural backgrounds and with exceptionalities; use instructional strategies that reflect personal knowledge of effective verbal and ~~nonverbal~~ ~~and~~ communication techniques; encourage development of critical thinking, problem solving, and performance skills; understand and use formal and informal methods of student assessment; plan and manage instruction; engage in reflection and self-assessment; and collaborate with parents/guardians, families, school colleagues, and the community in an ethical manner.

To obtain a teaching license, an individual ~~Students seeking licensure~~ must have a major, a bachelor's degree, and have completed licensure requirements in the area(s) in which licensure is sought. UMM is approved to recommend teaching licensure in the following fields: chemistry (9-12), communication arts and literature (5-12), dance and theatre arts (K-12), earth and space science (9-12), French (K-12), general science (5-8), German (K-12), instrumental music (K-12), life science (9-12), mathematics (5-12), physics (9-12), social studies (5-12), Spanish (K-12), visual arts (K-12), and vocal music (K-12).

Students planning to seek Minnesota teaching licensure at the secondary school level must complete licensure requirements in the discipline(s) of the subject(s) they intend to teach, the secondary teacher education program, and state and federally mandated examinations for new teachers. A minimum GPA of 2.50 is required overall, ~~and~~ in required licensure area(s), and in education courses is required. All courses required for teaching licensure in secondary education (discipline, professional education, or other courses) must be completed with a grade of C- or higher. Required courses may not be taken S-N unless offered S-N only.

## III. Assessment:

## IV. Requirements for a Major:

## V. Requirements for a Minor:

## VI. Requirements for Teacher Preparation:

### Licensure Area Requirements

An equivalent honors course can be used to fulfill any of the following requirements.

#### **Chemistry 9-12**

Chem 1101—General Chemistry I

Chem 1102—General Chemistry II

Chem 2301—Organic Chemistry I

Chem 2302—Organic Chemistry II

Chem 2311—Organic Chemistry Lab I

*One of two:*

Chem 2312—Organic Chemistry Lab II

Chem 2321—Introduction to Research

Chem 3101—Analytical Chemistry

Chem 3501—Physical Chemistry I

Chem 3xxx or above, one course

*One of three:*

Chem ~~39014901~~ and ~~49014902~~—Chemistry Seminar I and II (on research)

Chem 2993 or 3993 or 4993—Directed Study in Research

Other research experience (i.e., UROP, internship) with discipline approval

Math 1101—Calculus I

Math 1102—Calculus II

Phys 1101—General Physics I

Phys 1102—General Physics II

**Communication Arts and Literature 5-12 (fulfills the requirements for an English major)**

Engl 1131—Introduction to Literature

*One of two:*

Engl 2201—British Literature Survey I

Engl 2202—British Literature Survey II

*One of two:*

Engl 2211—American Literature Survey I

Engl 2212—American Literature Survey II

Engl 3001—Advanced Expository Writing

Engl 3021—Grammar and Language

Engl 3159—Shakespeare

Engl 3301—U.S. Multicultural and Multiracial Literatures

Engl elective at 1xxx or above or Ed 2201

*One of two:*

~~Spch 1000—Variable Topics in Introduction to Public Speaking~~

~~Spch 1051—Introduction to Public Speaking~~

~~Spch 1061—Interpersonal Communication~~

~~Spch 1071—Introduction to Groups: Principles and Practices~~

Spch 2071—Practices of Speech Communication

Spch 2101—Introduction to Theories of Speech Communication

~~Spch 3301—Media Theory, Criticism, and Problems~~

Spch 4151—Argumentation: Theory and Practice

*One of three:*

Th 2111—Creative Drama with Children

Th 2211—Oral Interpretation

Th 2221—Readers' Theatre

(Th 2211 preferred)

**Dance and Theatre Arts K-12 With a Theatre Specialization**

Th 1101—The Theatre Experience: An Introduction

Th 1111—Fundamentals of Acting

Th 1301—Fundamentals of Design

Th 2101—Fundamentals of Directing

Th 2211—Oral Interpretation

Th 2301—Stagecraft

Th 3101—World Theatre: History and Literature I

Th 3102—World Theatre: History and Literature II

*One of two:*

~~Th 3201—Acting and Directing I~~ Advanced Acting

~~Th 3202—Acting and Directing II~~ Advanced Directing

Th 4301—Scenic Design

Spch 3311—Social Uses of Media

~~Dnce-WSS 1332—Intermediate Jazz Dance~~

~~Dnce-WSS 1333—Intermediate Modern Dance~~

~~Dnce-WSS 2301—Dance Production~~

Three major production responsibilities in faculty directed productions, two of which must be in the junior and senior years

**Earth and Space Science 9-12**

Chem 1101—General Chemistry I

Chem 1102—General Chemistry II

Geol 1101—Physical Geology

Geol ~~21514121~~—Historical Geology: Earth History and Changing Scientific Perspectives

Geol 2101—Mineralogy and Crystallography

Geol 2111—Igneous and Metamorphic Petrology~~Petrology and Petrography~~

Geol 2121—Sedimentology and Stratigraphy

*One of three:*

Geol 4901 and 4902—Geology Senior Seminar and Presentations (on research)

Geol 2993 or 3993 or 4993—Directed Study in Research

Other research experience (i.e. UROP, internship) with discipline approval

Math 1101—Calculus I

*Also recommended:*

Geol 3101—Structural Geology

Geol 3501—Hydrology

**French K-12**

Fren 1001—Beginning French I

Fren 1002—Beginning French II

Fren 2001—Intermediate French I

Fren 2002—Intermediate French II

Fren 3001—Conversation and Composition

Fren 3011—Reading and Analysis of Texts

One course from the Early Modern Studies (EMS) cluster

One course from the Modern Studies (MOS) cluster or Fren 1302, 1303, 1304

One course from the Francophone Studies (FRS) cluster or Fren 1311

A minimum of 8 additional credits from Fren courses at 3xxx or above

One cross-listed course taught in English (Fren 1302, 1303, 1304 or 1311) may be counted, provided that students complete written work for the class in French

Seminar 4xxx required for French major

Fren 3015—French Culture I or Fren 3016—French Culture II

Minimum 16 credits of Fren 3xxx or above courses

**General Science 5-8**

Biol 2101—Evolution of Biodiversity (Biol 1101 prereq is waived)

Biol 2111—Cell Biology

Chem 1101—General Chemistry I

Chem 1102—General Chemistry II

Geol 1101—Physical Geology

*One of two:*

Phys 1091—Principles of Physics I

Phys 1101—General Physics I

*One of two:*

Phys 1092—Principles of Physics II

Phys 1102—General Physics II

**German K-12**

Ger 1001—Beginning German I

Ger 1002—Beginning German II

Ger 2001—Intermediate German I

Ger 2002—Intermediate German II

Ger ~~2011~~3001—Beginning German Conversation and Composition I

Ger 3011—Readings in German

~~Ger 3021—Advanced German Conversation and Composition~~

Ger 3101—Survey of German Literature and Culture I

Ger 3102—Survey of German Literature and Culture II

*One of three ~~two~~:*

Ger 3201—~~Periods:~~ German Classicism

Ger ~~3211~~3202—~~Periods:~~ German Romanticism

Ger 3203—~~Periods:~~ German Modernism

Three ~~two~~ Ger 3xxx elective courses (4 cr each)

**Instrumental Music K-12**

Mus 0100—Concert Attendance (7 enrollments min)

Mus 1101—Core Studies I: Music Theory I

Mus 1102—Core Studies I: Music Theory II

Mus 1300—Concert Band and/or 1340—Orchestra (7 enrollments min)

Mus 1401—English, Italian, German, and French Diction for Singers

Mus 2101—Core Studies II: Music Theory III

Mus 2102—Core Studies II: Music Theory IV

Mus 3101—Core Studies III: Medieval, Renaissance, and Baroque Music

Mus 3102—Core Studies III: Classical, Romantic, and 20th Century Music

Mus 1200-12+~~923~~—Individual Performance Studies (4-5 total enrollments)\*

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Mus 3200-3219—Advanced Individual Performance  
Studies in wind, string, percussion, or keyboard (2-3 semesters)\*  
Mus 3301—Instrumental Techniques—Woodwind  
Mus 3302—Instrumental Techniques—Brass and Percussion  
Mus 3303—Instrumental Techniques—Strings  
Mus 3304—Vocal Techniques  
Mus 3311—Conducting Techniques  
Mus 3321—Instrumental Conducting and Materials  
Mus 4901—Senior Project  
Piano Proficiency Test

Instrument Repair Clinic required for licensure

Secondary performance competence on another family (wind, string, or percussion)

\* *If jury exam is passed end of 4th semester: 4 cr Mus 1200-1219 and 3 cr of Mus 3200-3219; if jury exam is passed end of 5th semester: 5 cr Mus 1200-1219 and 2 cr of Mus 3200-3219*

**Life Science 9-12 (fulfills the requirements for a biology major)**

Biol 1101—Freshman Seminar in Biological Principles

Biol 2101—Evolution of Biodiversity

Biol 2111—Cell Biology

Biol 3101—Genetics

Biol 3121—Molecular Biology

Biol 3131—Ecology

Biol 4000-4500 (8 cr min)

Biol 4901—Senior Seminar

Chem 1101—General Chemistry I

Chem 1102—General Chemistry II

Chem 2301—Organic Chemistry I

Chem 2302—Organic Chemistry II

Chem 2311—Organic Chemistry Lab I

*One of two:*

Math 1021—Survey of Calculus

Math 1101—Calculus I

*One of two:*

Stat 1601—Introduction to Statistics

Stat 2601—Statistical Methods

*One of four:*

Biol 4000-4500 (beyond 8 cr min above)

Geol 3111—Introduction to Invertebrate Paleontology

Psy 3201—Comparative Psychology

Psy 3211—Biological Psychology

**Mathematics 5-12 (fulfills the requirements for a mathematics major)**

Math 1101—Calculus I

Math 1102—Calculus II

Math 2101—Calculus III

Math 2111—Linear Algebra

Math 2211—History of Math

Math 2202—Mathematical Perspectives

Math 3211—Geometry

Math 3221—Analysis

Math 3231—Abstract Algebra

Math 3411—Discrete and Combinatorial

Mathematics

Math 4901—Senior Seminar

Stat 2611—Mathematical Statistics

Students also are required to take a minimum of 5 additional credits in Math courses at 2xxx or above and one course with significant mathematical applications outside the mathematics discipline. ~~The latter~~ This course must be approved by the mathematics discipline. Courses which meet this requirement are listed online at [www.mrs.umn.edu/academic/math/app-require.html](http://www.mrs.umn.edu/academic/math/app-require.html).

**Physics 9-12**

Math 1101—Calculus I

Math 1102—Calculus II

Math 2101—Calculus III

Math 2401—Differential Equations

Phys 1101—General Physics I  
Phys 1102—General Physics II  
Phys 2101—Modern Physics  
Phys 2201—Circuits and Electronic Devices  
Phys 3101—Classical Mechanics  
Phys 3301—Optics

*One of two:*

Chem 3501—Physical Chemistry I  
Phys 3501—Statistical Physics

*One of three:*

Phys 4901—Senior Thesis (on research)  
Phys 2993 or 3993 or 4993—Directed Studies in Research  
Other research experience (e.g., UROP, internship) with discipline approval

***Social Studies 5-12 (fulfills requirements for a social science major)***

Anth 1111—Introductory Cultural Anthropology  
Econ 1112—Principles of Macroeconomics  
Econ 1951—Seminar for Social Studies Majors  
Geog ~~2001~~~~4001~~—Problems in Geography  
Hist 1301—Introduction to United States History  
Stat 1601—Introduction to Statistics or equivalent  
Pol 1201—American Government and Politics  
Psy 1051—Introduction to Psychology  
Soc 1101—Introductory Sociology

**Area of focus requirement**—An area of focus most often will be demonstrated by completing the minor in that discipline.

Area of focus plans should be on file with the Social Sciences Division Office by the end of a student's junior year. Individual plans can be devised, but the total number of introductory and upper level credits will be similar to that found among minors in the social sciences. No D grades will be accepted.

***Spanish K-12 (fulfills requirements for a Spanish major)***

Span 1001—Beginning Spanish I  
Span 1002—Beginning Spanish II  
Span 2001—Intermediate Spanish I  
Span 2002—Intermediate Spanish II  
Span 3001—~~Advanced Spanish I~~ Spanish Composition and Conversation I  
Span 3002—~~Advanced Spanish II~~ Spanish Composition and Conversation II  
Span 3101—Introduction to ~~Spanish~~ Hispanic Literature

2 courses from 32xx courses

2 courses from 35xx courses

Span 4001—Research Symposium

~~Span 3201—Masterpieces of Spanish Peninsular Literature I~~

~~Span 3202—Masterpieces of Spanish Peninsular Literature II~~

~~Span 3301—Masterpieces of Latin American Literature I~~

~~Span 3302—Masterpieces of Latin American Literature II~~

*One of two:*

~~Span 3400—Variable Topics in Latin American Literature~~

~~Span 3500—Variable Topics in Spanish Peninsular Literature~~

***Visual Arts K-12***

Arth 1101—Principles of Art  
ArtS 1050—Beginning Ceramics  
ArtS 1101—Basic Studio Drawing  
ArtS 1102—Basic Studio Drawing  
ArtS 1103—Basic Studio 2-D Design  
ArtS 1104—Basic Studio 3-D Design  
ArtS 1105—Basic Studio Discussion  
ArtS 1106—Basic Studio Discussion  
ArtS 2101—Second Year Drawing  
ArtS 2102—Second Year Drawing  
ArtS 3881—Junior Review  
ArtS 4881—Senior Review  
ArtS 4901—Senior Exhibit

Minimum 12 cr in one of the following media plus 6 cr in another and 3 cr in the third media:

*Printmaking*

ArtS 2201—Beginning Printmaking

ArtS 2202—Beginning Printmaking  
 ArtS 3200—Advanced Printmaking  
*Painting*  
 ArtS 2301—Beginning Painting  
 ArtS 2302—Beginning Painting  
 ArtS 3300—Advanced Painting  
*Sculpture or Ceramics*  
 ArtS 2401—Beginning Sculpture *or* ArtS 1050—Beginning Ceramics  
 ArtS 2402—Beginning Sculpture  
 ArtS 3400—Advanced Sculpture *or* ArtS 2050—Advanced Ceramics  
 Minimum 6 credits ArtS 2xxx or above electives  
 Minimum of 8 credits of ArtH courses

**Vocal Music K-12**

Mus 0100—Concert Attendance (7 enrollments min)  
 Mus 1101—Core Studies I: Music Theory I  
 Mus 1102—Core Studies I: Music Theory II  
 Mus 1310—University Choir and/or 1320—Concert Choir (7 enrollments min)  
Mus 1401—English, Italian, German, and French Diction for Singers  
 Mus 2101—Core Studies II: Music Theory III  
 Mus 2102—Core Studies II: Music Theory IV  
 Mus 3101—Core Studies III: Medieval, Renaissance, and Baroque Music  
 Mus 3102—Core Studies III: Classical, Romantic, and 20th Century Music  
 Mus 1200—~~1219~~<sup>23</sup>—Individual Performance Studies (4-5 total enrollments)\*  
 Mus 3200—~~3219~~<sup>23</sup>—Advanced Individual Performance  
 Studies in voice or keyboard (2-3 semesters)\*  
 Mus 3301—Instrumental Techniques—Woodwind  
 Mus 3302—Instrumental Techniques—Brass and Percussion  
 Mus 3303—Instrumental Techniques—Strings  
 Mus 3304—Vocal Techniques  
 Mus 3311—Conducting Techniques  
 Mus 3331—Choral Conducting and Materials  
 Mus 4901—Senior Project

Piano Proficiency Test

Instrument Repair Clinic required for licensure

Secondary performance competence on an instrument (wind, string, percussion or keyboard)

*\* If jury exam is passed end of 4th semester: 4 cr Mus 1200-1219 and 3 cr of Mus 3200-3219; if jury exam is passed end of 5th semester: 5 cr Mus 1200-1219 and 2 cr of Mus 3200-3219*

**VII. Other heading (include heading title):**

**Admission to the Program**

During fall semester of the junior or senior year, students are expected to attend an application meeting to begin the application process. Enrollment in the program is limited. The decision to admit is made during spring semester, before fall registration. The secondary education course sequence begins in fall semester.

Students transferring from another school must be admitted to UMM before admission to the secondary program can be offered. It is recommended that these students seek academic planning advice from a member of the secondary education faculty before the semester in which admission to the program is sought.

Requirements for admission include the following:

1. Successful completion (grade of C- or higher) of Psy 1061—Introduction to the Development of the Child and Adolescent (Psy 1051 is a prereq) ~~and~~ Ed 2101—Foundations and Issues in Education ~~and~~ Ed 2111—Tutor-Aide Practicum

Though not required for admission, Psy 1081-Drugs and Human Behavior and Spch 1052-Intro to Public Speaking are required courses for licensure. It is recommended that students complete these courses prior to beginning the program.

For students desiring more in-depth alternatives, Psy 3401—Developmental Psychology I: Child Psychology and Psy 3402—Developmental Psychology II: Adolescence may be substituted for Psy 1061—Introduction to the Development of the Child and Adolescent.

2. Completion of the Praxis I: Preprofessional Skills Test (PPST).
3. A minimum GPA of 2.50 overall and in required licensure area(s) and education courses. No grade of D will be accepted in licensure or education courses.
4. Approximately 90 credits completed by the end of the junior year including demonstration of satisfactory progress in each licensure area.
5. Approval of the faculty based on an interview, recommendations, assessment of prior experience (especially with young people and other cultures), and progress toward a degree.

6. Student must be admitted to UMM prior to program admission.

### **Student Teaching Requirements**

1. Successful completion of SeEd 4101—Block I: Teaching the Middle and Secondary Student, SeEd 4102—Block II: Teaching and Learning Strategies, and SeEd 4103—Practicum Experience in the Middle and Secondary School.
2. Successful completion of licensure area methods course(s).
3. Satisfactory completion of tutor aide and practicum experiences.
4. Spch 1052 ~~1xxx~~ (~~Spch 1000, Spch 1051, Spch 1061, Spch 1071~~) or exemption granted by petition to the Division of Education based on satisfactory completion of high school speech course or demonstrated ability.
5. A minimum GPA of 2.50 overall and in required licensure area(s) and education courses. No grade of D will be accepted in licensure or education courses.
6. Approval of teacher education faculty based on recommendations from faculty in the student's discipline.

### **Middle and Secondary School Licensure Requirements**

Students planning to teach in Minnesota middle and secondary schools must meet the licensure requirements of the Minnesota Board of Teaching (BOT).

At the University of Minnesota, Morris, the following program is designed to meet the current BOT requirements.

These licensure ~~course~~ requirements are subject to change when the BOT implements new licensure rules.

#### 1. Professional education courses

Ed 2101—Foundations and Issues in Education

Ed 2111—Tutor-Aide Practicum

SeEd 4101—Block I: Teaching the Middle and Secondary Student

SeEd 4102—Block II: Teaching and Learning Strategies

SeEd 4103—Practicum Experience in the Middle and Secondary School

SeEd 4201—Directed Student Teaching in the Middle and Secondary School

or SeEd 4204—Directed Student Teaching in International School at the Middle and Secondary Level

SeEd 4901—The Teacher and Professional Development.

#### 2. Successful completion of licensure area methods course(s).

3. Psy 1061—Introduction to the Development of the Child and Adolescent and Psy 1081—Drugs and Human Behavior.

4. Spch 1052 ~~1xxx~~ (~~Spch 1000, Spch 1051, Spch 1061, Spch 1071~~) or exemption granted by petition to the Division of Education based on satisfactory completion of high school speech course or demonstrated ability.

5. A minimum GPA of 2.50 overall and in required licensure area(s) and education courses. No grade of D will be accepted in licensure or education courses.

6. Approval of teacher education faculty based on recommendations from faculty in the student's discipline.

7. Passing scores on Praxis I and Praxis II and any other state and federally mandated exams examinations for new teachers.

*Note:* Students in secondary education must complete licensure requirements and apply for licensure within seven years from time of admission to the licensure program. After seven years, all education courses previously taken become void and must be retaken for licensure.

Required courses may not be taken S-N unless offered S-N only.

### **Course Descriptions**

**SeEd 4101f. Block I: Teaching the Middle and Secondary Student.** (4 cr; prereq admission to the secondary teacher education program; coreq 4102, 4103, methods)

Study of the middle and secondary education student, including exceptionalities, individual differences, learning styles, self-esteem, motivation, communication skills, assessment, and multicultural education.

**SeEd 4102f. Block II: Teaching and Learning Strategies.** (4 cr; coreq 4101, 4103, methods)

Concepts include teaching and learning strategies for middle and secondary classrooms, planning for lesson and unit instruction and assessment, learning theory, use of technology in the classroom, discipline, and classroom management.

**SeEd 4103f. Practicum Experience in the Middle and Secondary School.** (2 cr; coreq 4101, 4102, methods; S-N only)

Field experience in the middle and secondary school.

**SeEd 4201s. Directed Student Teaching in the Middle and Secondary School.** (HDiv; 10 cr; prereq 4101, 4102, 4103, methods, Spch 1000 or Spch 1051 or exemption; S-N only)

Students teach for a period of 11 weeks demonstrating application of approaches to teaching and learning in the middle and secondary grades under the guidance of a cooperating teacher and University supervisor.

**SeEd 4202f,s. Directed Student Teaching in the Middle and Secondary School.** (1-16 cr; prereq #; S-N only)

For students who need alternative or additional student teaching experience. Students demonstrate application of approaches to teaching and learning in middle and secondary grades under the guidance of a cooperating teacher and University supervisor.

**SeEd 4204s. Directed Student Teaching in International School at the Middle and Secondary Level.** (IP; 10 cr; prereq 4101, 4102, 4103, methods, Spch 1000 or Spch 1051 or exemptions; S-N only)

Students teach for a period of 11 weeks demonstrating application of approaches to teaching and learning in the middle and secondary grades under the guidance of a cooperating teacher and University supervisor.

**SeEd 4901s. The Teacher and Professional Development.** (2 cr; prereq 4201 or 4204 or #)

Capstone experience. Professional development issues and philosophy of education, including portfolio assessment.

**SeEd 3993f,s, 4993f,s. Directed Study.** (1-5 cr; repeatable; prereq @)

~~SeEd 4994f,s. Senior Honors Project. (1-5 cr; repeatable; prereq participation in Honors Program, @)~~

~~A substantial scholarly or creative work (at the undergraduate level) within the discipline. Successful completion of the senior honors project is one of the requirements for graduating from UMM “with honors.”~~

### **Middle and Secondary Education Methods Courses**

These courses focus on the objectives, curricula, special methods, materials, and evaluation appropriate for teaching the various subject matter areas in the middle and secondary school. Students are required to complete methods course(s) in their licensure area(s). Methods courses are taken concurrently with the secondary education block courses—SeEd 4101, 4102, 4103—and must be successfully completed before student teaching in a specific field.

**ArtE 4123 4103 f. Methods of Teaching Art K-12.** (4 cr; A-F only)

**EngE 4122 4102f,s. Methods of Teaching Communication Arts and Literature in the Middle School.** (1 cr; A-F only)

**EngE 4121 4103f. Methods of Teaching Communication Arts and Literature in the Secondary School.** (3 cr; coreq EngE 4102; A-F only)

**LanE 4123 4103f. Methods of Teaching Foreign Language K-12.** (4 cr; A-F only)

**MthE 4122 4102f,s. Methods of Teaching Mathematics in the Middle School.** (1 cr; A-F only)

**MthE 4121 4103f. Methods of Teaching Mathematics in the Secondary School.** (3 cr; coreq MthE 4102; A-F only)

**MusE 4123 4103f. Methods of Teaching Music K-12.** (3 cr; A-F only)

**MusE 4124 4104f. Multicultural Music for the K-12 Music Educator.** (1 cr; prereq #; A-F only)

**SciE 4122 4102f,s. Methods of Teaching Science in the Middle School.** (1 cr; A-F only)

**SciE 4121 4103f. Methods of Teaching Science in the Secondary School.** (3 cr; coreq SciE 4102; A-F only)

**SScE 4122 4102f,s. Methods of Teaching Social Science in the Middle School.** (1 cr; A-F only)

**SScE 4121 4103f. Methods of Teaching Social Science in the Secondary School.** (3 cr; coreq SScE 4102; A-F only)

**ThE 4123 4103f. Methods of Teaching Dance and Theatre Arts K-12.** (4 cr; A-F only)