



Elementary Education, B.S. *major*

Science Endorsement (Teacher Licensure)

A total of 120 semester credits are needed for the **Elementary Education, Science endorsement (Teacher Licensure) B.S. degree** and include the following:

- Completion of a minimum of 40 upper division credits (level 3000/4000)
- Completion of all required major credits
- Completion of Core Curriculum credits (Minnesota Transfer Curriculum [MnTC] Goal Areas 1-10 with a minimum of 40 credits) required for all baccalaureate degrees
- Completion of BSU Focus and Nisidotaading Course Requirements

Dual Degrees

Students wishing to complete two degrees concurrently, (example: Bachelor of Science and Bachelor of Arts) must complete a minimum of an additional 30 credits above the required 120 credits.

Multiple Credentials

Any additional major, minor or certificate in a degree must have at least 6 credits of course work not used to meet the requirements of another major, minor or certificate in the degree.

Required Credits: 98

Required GPA: 2.50

I ELEMENTARY EDUCATION FOUNDATION COURSES

Complete the following courses:

- ED 1100 Education & Society (3 credits)
- ED 2110 Educational Psychology and Learning Theories (3 credits)
- ED 3140 Human Diversity and Educational Equity (3 credits)
- ED 3350 Principles and Strategies of Teaching (3 credits)
- ED 3780 Inclusive Teaching and Classrooms (3 credits)
- ED 4778 Teacher Leadership (3 credits)

Complete the following course, up to 12 credits:

- ED 4820 Student Teaching - Elementary (1-16 credits)

II ELEMENTARY EDUCATION MAJOR COURSES

Complete the following courses:

- ED 3201 Language Arts I (3 credits)
- ED 3202 Language Arts II (3 credits)
- ED 3203 Language Arts III (3 credits)
- ED 3221 Elementary Math Methods (3 credits)
- ED 3222 Elementary Science Methods (3 credits)
- ED 3240 Social Studies in the Elementary School (3 credits)
- ED 3310 Creative Arts in Education (3 credits)
- HLTH 4100 Teaching Elementary School Health (2 credits)
- PHED 4200 Methods of Teaching Elementary Physical Education to Classroom Teachers (1 credit)

Complete the following course:

- MATH 1011 Mathematics for Elementary School Teachers I (3 credits)

Complete the following course:

- MATH 1013 Mathematics for Elementary School Teachers II (3 credits)

SCIENCE ENDORSEMENT

COMPLETE THE FOLLOWING COURSES:

- BIOL 1400 Cellular Principles (4 credits)
or BIOL 1110 Human Biology (4 credits)
- BIOL 1500 Diversity of Life (4 credits)
or BIOL 1120 General Biology: Evolution And Ecology (3 credits)
- CHEM 2211 Principles of Chemistry I (4 credits)
or CHEM 1111 General Chemistry I (4 credits)
- CHEM 2212 Principles of Chemistry II (4 credits)
or CHEM 1112 General Chemistry II (4 credits)
- GEOL 1110 Physical Geology (4 credits)
- SCI 3100 Integrative Science for Teachers (4 credits)
- SCI 3450 Science Methods For Grades 5-8 (4 credits)
or ED 3410 Secondary Science Methods (4 credits)

EDUCATION CORE

COMPLETE THE FOLLOWING COURSES:

- ED 3417 Teaching and Learning in the Middle School (3 credits)
- ED 4737 Content Area Reading (3 credits)

COMPLETE THE FOLLOWING COURSE (5 CREDITS):

- ED 4840 Student Teaching - Special Fields (1-12 credits)

PROFESSIONAL EDUCATION COURSES MUST BE COMPLETED

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Program Learning Outcomes | Elementary Education, B.S. major Science Endorsement (Teacher Licensure)

- 8710.2000 Standards of Effective Practice: <https://www.revisor.mn.gov/rules/8710.2000/>
- 8710.3200 Teachers of Elementary Education: <https://www.revisor.mn.gov/rules/8710.3200/>
- 8710.3340 Middle Level Endorsement License for Teachers of General Science: <https://www.revisor.mn.gov/rules/8710.3340/>

Suggested semester schedule | Elementary Education, Science endorsement B.S. major

Freshman - 1st semester

- ED 1100 Education & Society (3 credits)
- Core Curriculum Goal 4
- Nisidotaading Course Requirement
- Core Curriculum (3 credits)
- GEOL 1110 Physical Geology (4 credits)

Freshman - 2nd semester

- MATH 1011 Mathematics for Elementary School Teachers I (3 credits)
- Core Curriculum (9 credits)
- BSU Focus (1 credit)

- BIOL 1110 Human Biology (4 credits)
or BIOL 1400 Cellular Principles (4 credits)

Sophomore - 3rd semester

- ED 2110 Educational Psychology and Learning Theories (3 credits)
- MATH 1013 Mathematics for Elementary School Teachers II (3 credits)
- Core Curriculum (6 credits)
- CHEM 1111 General Chemistry I (4 credits)
or CHEM 2211 Principles of Chemistry I (4 credits)

Sophomore - 4th semester

- CHEM 1112 General Chemistry II (4 credits)
or CHEM 2212 Principles of Chemistry II (4 credits)
- Core Curriculum (12 credits)

Junior - 5th semester

- ED 3350 Principles and Strategies of Teaching (3 credits)
- ED 3201 Language Arts I (3 credits)
- ED 3140 Human Diversity and Educational Equity (3 credits)
- ED 3417 Teaching and Learning in the Middle School (3 credits)
- PHED 4200 Methods of Teaching Elementary Physical Education to Classroom Teachers (1 credit)
- HLTH 4100 Teaching Elementary School Health (2 credits)

Junior - 6th semester

- ED 3240 Social Studies in the Elementary School (3 credits)
- ED 3202 Language Arts II (3 credits)
- ED 3310 Creative Arts in Education (3 credits)
- ED 3410 Secondary Science Methods (4 credits)
- SCI 3100 Integrative Science for Teachers (4 credits)
(take when offered; see advisor)

Senior - 7th semester

- ED 3203 Language Arts III (3 credits)
- ED 3221 Elementary Math Methods (3 credits)
- ED 3222 Elementary Science Methods (3 credits)
- ED 4778 Teacher Leadership (3 credits)
- ED 3780 Inclusive Teaching and Classrooms (3 credits)
- ED 4737 Content Area Reading (3 credits)

Senior - 8th semester

- ED 4820 Student Teaching - Elementary (1-16 credits)
(take for 7 credits)
- ED 4840 Student Teaching - Special Fields (1-12 credits)
(take for 5 credits)