These guidelines summarize the requirements for a Bachelor of Science and partial completion of Connecticut certification requirements in earth science education (7-12) for students following the 2018-2019 requirements.

DEGREE REQUIREMENTS

1. Complete the GENERAL EDUCATION REQUIREMENTS listed in the Academic Regulations of the University of Connecticut Undergraduate Catalog 2018-2019. In addition to the General Education Requirements (Content Areas 1-4), students must take a course in U.S. History. Courses in Content Areas 1-3 must be in different departments.

2. Complete a SUBJECT AREA MAJOR in Earth Science consisting of a minimum of thirty-six (36) credits in natural sciences courses at the 2000’s level or above. This includes a minimum of twenty-four (24) credits of 2000’s level or above courses completed in the earth sciences and closely related subject areas. Up to twelve (12) credits may be completed in related areas. Six (6) credits taken at the 1000’s level may be included with permission of the science education advisor.

Students wishing to specialize in the earth sciences are advised initially to major in geology or physical geography and in addition, to select appropriate courses in meteorology, astronomy, and oceanography.

3. Complete the following PROFESSIONAL EDUCATION REQUIREMENTS:

   EDCI 3100/W – Multicultural Education, Equity and Social Justice 3 credits
   EPSY 3010 – Educational Psychology 3 credits
   EGEN 3100 – Seminar/Clinic: The Student as Learner 3 credits
   EPSY 3110 – Exceptionality 2 credits
   EDCI 3213 – Introduction to Secondary Methods and Clinic - Science 3 credits
   EDCI 4010 – Teaching Reading and Writing in the Content Areas 2 credits
   EDCI 4210W – Instruction and Curriculum in the Secondary School 3 credits
   EPSY 3125 – Classroom and Behavior Management 3 credits
   EGEN 4100 – Seminar/Clinic: Methods of Teaching 3 credits
   EPSY 4010 – Assessment of Learning 2 credits
   EDCI 4250 – Directed Student Teaching 9 credits
   EGEN 4110 – Seminar/Clinic: Analysis of Teaching 3 credits

Students must earn at least 120 credits.

MASTER OF ARTS IN CURRICULUM AND INSTRUCTION

To earn the University of Connecticut’s institutional recommendation for teacher certification, students must additionally successfully complete the requirements for the Master of Arts in Curriculum and Instruction including a minimum of thirty (30) credits (two full-time semesters) of graduate level course work. Requirements are anticipated to include at least:

Content Pedagogy: EDCI 5500 – Teaching Science in the Middle & Secondary School (3 credits)
Curriculum Electives and/or Graduate Liberal Arts: (6 credits)
Language and Cultural Diversity in Education: (3 credits)
Leadership: EDLR 5015 – Teacher Leadership and Organizations (3 credits)
Practicum: EDCI 5092 (3 credits fall) and EDCI 5093 (4 credits spring)
Seminar: EDCI 5094 (3 credits fall) and EDCI 5095 (3 credits spring)
Research: EPSY 5195 (1 credit fall and 1 credit spring)
Technology: EPSY 5221 – Wise Integration of Technology into Teaching and Learning Environments (1-3 credits)
# Earth Science Education

## Sample Semester Sequence

### Semester 1
<p>|</p>
<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1102 (Also fulfills CA 3) – Foundations of Biology</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 1127Q – General Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>HIST 1501 or 1502 (Also fulfills CA 1) – US History</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1010 or 1011</td>
<td>4</td>
</tr>
</tbody>
</table>

### Summer Session

**Language**

*Required of all students not meeting the University requirements of three years of a single foreign language in high school.

### Semester 2
<p>|</p>
<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>GSCI 1050 – Earth and Life through Time with Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 1128Q – General Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>MATH pre-calculus or calculus</td>
<td>3 or 4</td>
</tr>
<tr>
<td>Content Area 2/4</td>
<td>3</td>
</tr>
</tbody>
</table>

### Semester 3

**PHYS 1201Q – General Physics**

**PHYS 1025Q – Introductory Astronomy with Lab**

**PSYC 1100 (Also fulfills CA 3) – Psychology**

**Subject Area Major (2000-level or above)**

**Content Area 1**

**Content Area 2***

**Content Area 4***

**EPSY 3010 – Educational Psychology**

### Semester 4

**PHYS 1202Q – General Physics**

**GSCI 3010 – Earth History and Global Change**

**Subject Area Major (2000-level or above)**

**Content Area 2**

**Content Area 4***

**EPSY 3010 – Educational Psychology**

### Semester 5

**EPSY 3110 – Exceptionality (fall or spring junior year)**

**EDCI 3100/W – Multicultural Education, Equity & SJ**

**EGEN 3100 – Seminar/Clinic**

**GSCI 3020 – Earth Surface Processes**

**GSCI 3030 – Earth Structure**

**NRE 3145 – Meteorology**

**Subject Area Major (PHIL 2212, suggested)**

### Semester 6

**EPSY 3110 – Exceptionality (fall or spring junior year)**

**EDCI 3213 – Intro. to Secondary Methods and Clinic - Science**

**EDCI 4010 – Teaching Reading/ Writing in the Content Areas**

**GSCI 3040 – Earth Materials**

**Subject Area Major (2000-level or above)**

### Semester 7

**EDCI 4210W – Instruct. & Curric. in Secondary Schools**

**EGEN 4100 – Seminar/Clinic**

**EPSY 3125 – Classroom and Behavior Management**

**GEOG 3510 – Cartographic Techniques**

**MARN 4060 – Descriptive Physical Oceanography**

**Subject Area Major (PHIL 2212, suggested)**

### Semester 8

**EPSY 4010 – Assessment of Learning**

**EDCI 4250 – Directed Student Teaching**

**EGEN 4110 – Seminar/Clinic**

**EPSY 5195 – Research Course**

**EPSY 5221 – Wise Technology (either semester)**

**Diversity course (either semester)**

**EDLR 5015 – Leadership (either semester)**

**Elective**

**EPSY 5195 – Research Course**

**EPSY 5221 – Wise Technology (either semester)**

**Diversity course (either semester)**

**EDLR 5015 – Leadership (either semester)**

**Elective**

**EDCI 5500 – Teaching Science in Middle & High School**

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*Students should take EPSY 3010 prior to semester 5, if possible, but no later than semester 6. The course is available fall, spring, summer and online.*

Lower division requirements have been selected to assist students with completing the general education requirements, including two W courses (one must be 2000-level or above and associated with the student’s major) and two Q courses (one Q course must be from Mathematics or Statistics).