These guidelines summarize the requirements for Bachelor of Science and partial completion of Connecticut certification requirements in general science education (7-12) for students following the 2020-2021 requirements.

**DEGREE REQUIREMENTS:**

1. Complete the **GENERAL EDUCATION REQUIREMENTS** listed in the Academic Regulations of the University of Connecticut Undergraduate Catalog 2020-2021, which include two W courses (one must be 2000-level or above and associated with the student’s major), two Q courses (one Q course must be from Mathematics or Statistics), an Environmental Literacy course, and courses in Content Areas 1-4 (see catalog.uconn.edu for more information). In addition to the General Education Requirements, students must take a course in U.S. History (HIST 1501 or 1502) and PSYC 1100.

2. Complete a **SUBJECT AREA MAJOR** in General Science consisting of a minimum of thirty-nine (39) credits (2000’s level or above) which must include study in: biology, chemistry, physics, and earth sciences (astronomy, geology, meteorology, and oceanography). Six (6) credits taken at the 1000’s level may be included with permission of the science education advisor.

3. Complete the following **PROFESSIONAL EDUCATION REQUIREMENTS:**

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

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)

**Choose one:**
- 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)
# GENERAL SCIENCE EDUCATION

## SAMPLE SEMESTER SEQUENCE

### SEMESTER 1
- BIOL 1107 – Prin. of Biology (Also fulfills CA 3) 4
- ENGL 1010 or 1011 4
- CHEM 1127Q – General Chemistry 4
- PSYC 1100 – Psychology (Also fulfills CA 3) 3

### SUMMER SESSION
*LANGUAGE 8

### SEMESTER 3
- PHYS 1010Q – Elements of Physics 4
- CHEM 2241 – Organic Chemistry 3
- CHEM 2242 – Organic Chemistry Lab 1
- MARN 1002 – Introduction to Oceanography 3
- Content Area 2 3
- **EPSY 3010 – Educational Psychology 3

### SEMESTER 5
- EPSY 3110 – Exceptionality (fall or spring jr. yr.) 2
- EDPI 3100/W – Multicultural Ed., Equity & SJ 3
- EGEN 3100 – Seminar/Clinic 3
- GSCI 3030 – General Chemistry 3
- PNB 2264 – Human Physiology and Anatomy 4
- NRE 3145 – Meteorology 3

### SEMESTER 7
- EPSY 3100 – Educational Psychology (Also fulfills CA 3) 3
- ENGL 1010 or 1011 4
- CHEM 1127Q – General Chemistry 4
- PSYC 1100 – Psychology (Also fulfills CA 3) 3

### SEMESTER 2
- BIOL 1108 – Principles of Biology 4
- CHEM 1128Q – General Chemistry 4
- GSCI 1050 – Earth and Life through Time with lab 4
- HIST 1501 or 1502 – US History (Also fulfills CA 1) 3
- Content Area 1 3

### SEMESTER 4
- PHYS 1025Q – Introductory Astronomy with Lab 4
- CHEM 3332 – Quantitative Analytical Chemistry 4
- MCB, PNB, EEB 2000-level or higher 3
- Content Area 2 & 4 3
- STAT 1000Q or STAT 1100Q – Statistics 4

### SEMESTER 6
- EPSY 3110 – Exceptionality (fall or spring junior year) 2
- EDPI 3213 – Intro. to Secondary Methods & Clinic 3
- EDPI 4010 – Teaching Reading/Writing in Content Areas 2
- PNB 2265 – Human Physiology and Anatomy 4
- EEB 2245 – Evolutionary Biology 3
- Elective (PHIL 2212 – Science of Philosophy, suggested) 3

### SEMESTER 8
- EPSY 4010 – Assessment of Learning 2
- EDPI 4250 – Directed Student Teaching 9
- EGEN 4110 – Seminar/Clinic 3

### SEMESTER 9 (Master’s)
- EDCI 5092 – Practicum 3
- EDCI 5094 – Seminar 3
- EPSY 5195 – Research course 1
- EPSY 5221 – Wise Technology (either semester) 1-3
- Diversity course (either semester) 3
- EDLR 5015 – Leadership (either semester) 3
- Elective 3-6

### SEMESTER 10 (Master’s)
- EDCI 5093 – Practicum 4
- EDCI 5095 – Seminar 3
- EPSY 5195 – Research Course 1
- EPSY 5221 – Wise Technology (either semester) 1-3
- Diversity course (either semester) 3
- EDLR 5015 – Leadership (either semester) 3
- Elective 3-6
- EDCI 5500 – Teaching Science in Middle & High School 3

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

**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.