SECONDARY EDUCATION: SCIENCES ENTITLEMENT

The following are required to meet the Illinois Approved Program for an Illinois Professional Educator License with a secondary education (grades 9-12) Sciences entitlement. Please note these requirements are separate from degree requirements, although they may count toward the degree as well.

The Council on Teacher Education (https://cte.s.education.illinois.edu/dotnet/webpages/webpage.aspx) oversees licensure requirements. School and Community Experiences (http://education.illinois.edu/sce/) coordinates all aspects of field placement.

Course Requirements*

Foundations Courses:

Psychological Foundations Courses in Educational Psychology

- EPSY 485 meets this requirement

Philosophical and Social Foundations Courses in Education Policy, Organization and Leadership

Select one of the following: 4

- EPOL 401 History of American Education
- EPOL 402 Asian American Education
- EPOL 403 Historical and Social Barriers
- EPOL 405 School and Society
- EPOL 406 Professional Ethics in Education
- EPOL 407 Critical Thinking in Education
- EPOL 408 Aesthetic Education
- EPOL 409 Sociology of Education
- EPOL 410 Racial and Ethnic Families
- EPOL 412 Politics of Education
- EPOL 413 Economics of Education
- EPOL 480 Technology and Educational Reform

Content-Area Courses:

Science: Biology

A major in Biology or 32 semester hours in the sciences is required. In either instance, it must include coursework from the following:

- One year (two semesters) introductory Biology
- Two advanced courses in biology or related fields, including one laboratory
- One course in Calculus
- Two courses in Chemistry
- One course in Physics
- One course in Earth Science
- One course in Astronomy

Science: Chemistry

A major in Chemistry or 32 semester hours in the sciences is required. In either instance, it must include coursework from the following:

- One year (two semesters) of introductory college chemistry
- Two courses in organic chemistry, including lab
- One course in analytical chemistry, including quantitative analysis
- One course in physical chemistry
- One course in biochemistry or inorganic chemistry

Related required coursework:

- Two courses in calculus
- Two courses in physics
- One course in biological science
- One course in earth science
- One course in astronomy

Science: Earth and Space Science

A major in earth & space science or 32 semester hours in the sciences is required. Either option must include coursework from the following:

- One course in astronomy
- One course in atmospheric science or meteorology
- One year of introductory geology, including physical and historical (GEOL 107 and GEOL 208)
- One introductory course in history of life (GEOL 143) OR advanced course in paleontology
- One course in earth materials (GEOL 333 or GEOL 432) OR mineralogy & petrology (GEOL 436)
- One course in sedimentary geology (GEOL 440) OR sedimentology
- One course in structural geology (GEOL 411)

Additional Science Required:

- One course in biology
- One course in calculus
- One course in chemistry
- One course in physics

Science: Physics

A major in Physics or 32 semester hours in the sciences is required. In either instance, the coursework must include the following:

- One year introductory physics sequences similar to UIUC PHYS 211, PHYS 212, PHYS 213, PHYS 214 (this includes study in electricity and magnetism, mechanics, thermal, and quantum physics)
- Advanced course in classical mechanics
- Advanced course in electricity and magnetism
- Advanced course in quantum physics
- One course in advanced physics laboratory
- Related required coursework:
  - Two courses in calculus

Information listed in this catalog is current as of 01/2022
One course in chemistry, including lab
At least one biological science course
One course in earth science
One course in astronomy

**Professional Education Courses:**

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>CI 401</td>
<td>Introductory Teaching in a Diverse Society (Section S)</td>
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<td>CI 403</td>
<td>Teaching a Diverse High School Student Population (Section S)</td>
<td>3</td>
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<tr>
<td>CI 404</td>
<td>Teaching and Assessing Secondary School Students (Section S)</td>
<td>3</td>
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<tr>
<td>CI 473</td>
<td>Disciplinary Literacy</td>
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<td>EDPR 442</td>
<td>Educational Practice in Secondary Education</td>
<td>12</td>
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<tr>
<td>EPSY 485</td>
<td>Assessing Student Performance</td>
<td>4</td>
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<tr>
<td>SPED 405</td>
<td>General Educator's Role in Special Education</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>or SPED 517 Disability Issues in Special Education</td>
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**Other Requirements**

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<tr>
<th>Requirement</th>
<th>Description</th>
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<tbody>
<tr>
<td>Content &amp; Professional Education GPA</td>
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<tr>
<td>Graduate GPA</td>
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*State rules mandate that no course with a grade lower than a C- be used toward licensure, endorsement, or approvals. This means courses lower than a C- cannot be used.

Requirements are subject to change without notice due to changes in State law and/or rule.