INTEGRATED SCIENCE TEACHING OPTION

This option is offered within the following major(s):

- Education - College of Education (http://catalog.oregonstate.edu/college-departments/education/education-ba-bs-hba-hbs)

This option is for students wishing to earn a bachelor's degree in Education and qualify for an Oregon Teaching License to teach integrated science at the middle school (grades 6–9) and/or high school (grades 9–12) levels.

For more information, contact the College of Education Student Services Advisor, 104 Furman Hall, 541-737-4661.

Option Code: 67

Students must meet all standards in this option by completing the required courses prior to beginning the Professional Level. Note: Most of these courses will also meet requirements in a student's first degree. Additional option requirements:

- A cumulative 3.0 GPA is preferred for all required courses. Grades below C- are not accepted.
- All required courses must be letter graded (A–F); courses graded on Pass/No Credits (P/N) or Satisfactory/Unsatisfactory (S/U) basis are not accepted.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td><strong>Standard 1. Physics Sequence</strong> Select one of the following physics series:</td>
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<td>15</td>
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<tr>
<td></td>
<td>PH 201</td>
<td>*GENERAL PHYSICS</td>
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<td></td>
<td>&amp; PH 202 &amp; *GENERAL PHYSICS</td>
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<td>&amp; PH 203 &amp; *GENERAL PHYSICS</td>
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<tr>
<td>Series 1</td>
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<td></td>
<td>PH 211</td>
<td>*GENERAL PHYSICS WITH CALCULUS</td>
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<td></td>
<td>&amp; PH 221 &amp; RECITATION FOR PHYSICS 211</td>
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<td>PH 212</td>
<td>*GENERAL PHYSICS WITH CALCULUS</td>
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<td>&amp; PH 222 &amp; RECITATION FOR PHYSICS 212</td>
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<td>PH 213</td>
<td>*GENERAL PHYSICS WITH CALCULUS</td>
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<td>&amp; PH 223 &amp; RECITATION FOR PHYSICS 213</td>
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<tr>
<td>Series 2</td>
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</tbody>
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| **Standard 2. Chemistry Sequence** Select one of the following chemistry series: | | 15 |
| | CH 231 | GENERAL CHEMISTRY |
| | & CH 261 & *LABORATORY FOR CHEMISTRY 231 |
| | CH 232 | GENERAL CHEMISTRY |
| | & CH 262 & *LABORATORY FOR CHEMISTRY 232 |
| | CH 233 | GENERAL CHEMISTRY |
| | & CH 263 & *LABORATORY FOR CHEMISTRY 233 |
| Series 1 | | |
| | CH 231 | GENERAL CHEMISTRY |
| | & CH 271 & *LABORATORY FOR CHEMISTRY 231 FOR CHEMISTRY MAJORS |
| | CH 232 | GENERAL CHEMISTRY |
| | & CH 272 & *LABORATORY FOR CHEMISTRY 232 FOR CHEMISTRY MAJORS |
| | CH 233 | GENERAL CHEMISTRY |
| | & CH 273 & *LABORATORY FOR CHEMISTRY 233 FOR CHEMISTRY MAJORS |
| Series 2 (for Chemistry majors) | | |

| **Standard 3. Biology Sequence** Select one of the following biology series: | | 12 |
| | BI 101 | *ENVIRONMENTAL BIOLOGY: ECOLOGY, CONSERVATION, GLOBAL CHANGE |
| | & BI 102 & and *ANIMAL BIOLOGY: GENES, BEHAVIOR AND EVOLUTION OF LIFE |
| | & BI 103 & and *HUMAN BIOLOGY: ANATOMY, PHYSIOLOGY AND DISEASE |
| Series 1 | | |
| | BI 211 | *PRINCIPLES OF BIOLOGY |
| | & BI 212 & and *PRINCIPLES OF BIOLOGY |
| | & BI 213 & and *PRINCIPLES OF BIOLOGY |
| Series 2 | | |
| **Standard 4. Earth and Space Science** Select a minimum of 15 credits from at least two areas below: | | |
| **Astronomy** | | |
| | PH 104 | *DESCRIPTIVE ASTRONOMY |
| | PH 205 | *SOLAR SYSTEM ASTRONOMY |
| | PH 206 | *STARS AND STELLAR EVOLUTION |
| | PH 207 | *GALAXIES, QUASARS, AND COSMOLOGY |
| **Atmospheric Sciences** | | |
| | ATS 201 | *CLIMATE SCIENCE |
| | ATS 310 | METEOROLOGY |
| **Geology** | | |
| | GEO 201 | *PHYSICAL GEOLOGY |
| | GEO 202 | *EARTH SYSTEMS SCIENCE |
| | GEO 203 | *EVOLUTION OF PLANET EARTH |
| | GEO 221 | *ENVIRONMENTAL GEOLOGY |
| | GEO 305 | *LIVING WITH ACTIVE CASCADE VOLCANOES |
| | GEO 306 | *MINERALS, ENERGY, WATER, AND THE ENVIRONMENT |
| | GEO 307 | *NATIONAL PARK GEOLOGY AND PRESERVATION |
| | GEO 308 | *GLOBAL CHANGE AND EARTH SCIENCES |
| | GEO 352 | *OREGON: GEOLOGY, PLACE, AND LIFE ON THE RING OF FIRE |
| **Oceanography** | | |
| | OC 201 | *OCEANOGRAPHY |
| | OC 332 | COASTAL OCEANOGRAPHY |
| **Standard 5. Science Education** | | |
| | SED 413 | INQUIRY IN SCIENCE AND SCIENCE EDUCATION 3 |
| **Total Hours** | | 45 |

* Baccalaureate Core Course (BCC)

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