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>Credits</th>
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<tbody>
<tr>
<td>PH 201 &amp; PH 202 &amp; PH 203</td>
<td>*GENERAL PHYSICS and *GENERAL PHYSICS and *GENERAL PHYSICS</td>
<td>15</td>
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<tr>
<td>PH 211 &amp; PH 221 &amp; PH 212 &amp; PH 222 &amp; PH 213 &amp; PH 223</td>
<td>*GENERAL PHYSICS WITH CALCULUS and REcATION FOR PHYSICS 211 and *GENERAL PHYSICS WITH CALCULUS and REcATION FOR PHYSICS 212 and *GENERAL PHYSICS WITH CALCULUS and REcATION FOR PHYSICS 213</td>
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<tr>
<td>CH 231 &amp; CH 261 &amp; CH 232 &amp; CH 262 &amp; CH 233 &amp; CH 263</td>
<td>GENERAL CHEMISTRY and *LABORATORY FOR CHEMISTRY 231 and GENERAL CHEMISTRY and *LABORATORY FOR CHEMISTRY 232 and GENERAL CHEMISTRY and *LABORATORY FOR CHEMISTRY 233</td>
<td>15</td>
</tr>
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Standard 1. Physics Sequence
Select one of the following physics series:

### Series 1
- PH 201 & PH 202 & PH 203
- *GENERAL PHYSICS and *GENERAL PHYSICS and *GENERAL PHYSICS

### Series 2
- PH 211 & PH 221 & PH 212 & PH 222 & PH 213 & PH 223
- *GENERAL PHYSICS WITH CALCULUS and REcATION FOR PHYSICS 211 and *GENERAL PHYSICS WITH CALCULUS and REcATION FOR PHYSICS 212 and *GENERAL PHYSICS WITH CALCULUS and REcATION FOR PHYSICS 213

Standard 2. Chemistry Sequence
Select one of the following chemistry series:

### Series 1
- CH 231 & CH 261 & CH 232 & CH 262 & CH 233 & CH 263
- GENERAL CHEMISTRY and *LABORATORY FOR CHEMISTRY 231 and GENERAL CHEMISTRY and *LABORATORY FOR CHEMISTRY 232 and GENERAL CHEMISTRY and *LABORATORY FOR CHEMISTRY 233

### Series 2 (for Chemistry majors)
- CH 231 & CH 271 & CH 232 & CH 272 & CH 233 & CH 273
- GENERAL CHEMISTRY and *LABORATORY FOR CHEMISTRY MAJORS and GENERAL CHEMISTRY and *LABORATORY FOR CHEMISTRY MAJORS and GENERAL CHEMISTRY and *LABORATORY FOR CHEMISTRY MAJORS

Standard 3. Biology Sequence
Select one of the following biology series:

### Series 1
- BI 101 & BI 102 & BI 103
- *ENVIRONMENTAL BIOLOGY: ECOLOGY, CONSERVATION, GLOBAL CHANGE and *ANIMAL BIOLOGY: GENES, BEHAVIOR AND EVOLUTION OF LIFE and *HUMAN BIOLOGY: ANATOMY, PHYSIOLOGY AND DISEASE

### Series 2
- BI 221 & BI 222 & BI 223
- *PRINCIPLES OF BIOLOGY: CELLS and *PRINCIPLES OF BIOLOGY: ORGANISMS and *PRINCIPLES OF BIOLOGY: POPULATIONS

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 Credits 45

* Baccalaureate Core Course (BCC)

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