ENVIRONMENTAL CHEMISTRY OPTION

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

- Chemistry - College of Science (http://catalog.oregonstate.edu/college-departments/science/chemistry/chemistry-ba-bs-hba-hbs)

The Environmental Chemistry option is structured to provide a quality foundation for working in government, industrial or university labs studying the behavior of chemicals in the environment. It also is suited to graduate education in chemistry or environmental chemistry. Students can earn a BS degree in Chemistry in four years while targeting their career. This option includes 11 courses in biology, microbiology, toxicology, environmental chemistry and health, soil science, and hydrology.

The Environmental Chemistry option is designed for the Track-Two BS degree in Chemistry.

The track-two core requirements are slightly modified for the Environmental Chemistry option:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Required for Core</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Replace CH 324 with:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CH 421</td>
<td>ANALYTICAL CHEMISTRY</td>
<td></td>
</tr>
<tr>
<td>&amp; CH 422</td>
<td>and ANALYTICAL CHEMISTRY</td>
<td></td>
</tr>
<tr>
<td>CH 461</td>
<td>EXPERIMENTAL CHEMISTRY II</td>
<td></td>
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<tr>
<td>Only one term of Inorganic Chemistry:</td>
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</tr>
<tr>
<td>CH 411</td>
<td>INORGANIC CHEMISTRY</td>
<td></td>
</tr>
<tr>
<td>or CH 412</td>
<td>INORGANIC CHEMISTRY</td>
<td></td>
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<tr>
<td><strong>Requirements</strong></td>
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<td></td>
</tr>
<tr>
<td>BB 314</td>
<td>CELL AND MOLECULAR BIOLOGY</td>
<td>4</td>
</tr>
<tr>
<td>BI 212</td>
<td>*PRINCIPLES OF BIOLOGY</td>
<td>8</td>
</tr>
<tr>
<td>&amp; BI 213</td>
<td>and *PRINCIPLES OF BIOLOGY</td>
<td></td>
</tr>
<tr>
<td>MB 302</td>
<td>GENERAL MICROBIOLOGY</td>
<td>5</td>
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<tr>
<td>&amp; MB 303</td>
<td>and GENERAL MICROBIOLOGY LABORATORY</td>
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<tr>
<td>ST 201</td>
<td>PRINCIPLES OF STATISTICS</td>
<td>3-4</td>
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<tr>
<td>or ST 314</td>
<td>INTRODUCTION TO STATISTICS FOR ENGINEERS</td>
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<tr>
<td>TOX 430</td>
<td>CHEMICAL BEHAVIOR IN THE ENVIRONMENT</td>
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<tr>
<td>TOX 455</td>
<td>ECOTOXICOLOGY: AQUATIC ECOSYSTEMS</td>
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<td>Select three of the following:</td>
<td>9-10</td>
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<tr>
<td>BI 211</td>
<td>*PRINCIPLES OF BIOLOGY</td>
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<tr>
<td>BI 370</td>
<td>ECOLOGY</td>
<td></td>
</tr>
<tr>
<td>CE 514</td>
<td>GROUNDWATER HYDRAULICS</td>
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</tr>
<tr>
<td>CH 401</td>
<td>RESEARCH</td>
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<tr>
<td>CH 692</td>
<td>ENVIRONMENTAL TRANSFORMATION OF ORGANIC COMPOUNDS</td>
<td></td>
</tr>
<tr>
<td>CSS 305</td>
<td>PRINCIPLES OF SOIL SCIENCE (EOU campus only)</td>
<td></td>
</tr>
<tr>
<td>or SOIL 205</td>
<td>SOIL SCIENCE</td>
<td></td>
</tr>
<tr>
<td>ENVE 531</td>
<td>FATE AND TRANSPORT OF CHEMICALS IN ENVIRONMENTAL SYSTEMS</td>
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<tr>
<td>ENVE 532</td>
<td>AQUATIC CHEMISTRY: NATURAL AND ENGINEERED SYSTEMS</td>
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</tbody>
</table>

Total Hours: 35-37

* Baccalaureate Core Course (BCC)

Option Code: 504