GENOMICS OPTION

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

- Biological Data Sciences - College of Agricultural Sciences (http://catalog.oregonstate.edu/college-departments/agricultural-sciences/botany-plant-pathology/biological-data-sciences-bs-hbs/)

Students in the Genomics Option complete course series in general and organic chemistry and biochemistry.

Option Code: 914

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CH 232 &amp; CH 262</td>
<td>GENERAL CHEMISTRY and *LABORATORY FOR CHEMISTRY 232</td>
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<tr>
<td>CH 233 &amp; CH 263</td>
<td>GENERAL CHEMISTRY and *LABORATORY FOR CHEMISTRY 233</td>
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<tr>
<td>CH 331</td>
<td>ORGANIC CHEMISTRY</td>
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<td>CH 332</td>
<td>ORGANIC CHEMISTRY</td>
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<td>BB 450</td>
<td>GENERAL BIOCHEMISTRY</td>
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<tr>
<td>BB 314</td>
<td>CELL AND MOLECULAR BIOLOGY</td>
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Advanced Molecular, Cell, Organismal or Physiology

Select one course from the following:

- BOT 331: PLANT PHYSIOLOGY
- BB 460: ADVANCED CELL BIOLOGY
- BB 484: CHROMATIN AND EPIGENETICS
- BB 493: BIOCHEMISTRY LABORATORY MOLECULAR TECHNIQUES 1
- MB 302 & MB 303: GENERAL MICROBIOLOGY and GENERAL MICROBIOLOGY LABORATORY
- Z 425: EMBRYOLOGY AND DEVELOPMENT
- Z 437
- Z 438: BEHAVIORAL NEUROBIOLOGY

Other course with advisor approval

Genomics

Select two courses from the following:

- BOT 476: INTRODUCTION TO COMPUTING IN THE LIFE SCIENCES (recommended as first course for Genomics option)
- BOT 458: ECOSYSTEMS GENOMICS
- BOT 460: FUNCTIONAL GENOMICS
- BOT 475: COMPARATIVE GENOMICS
- BB 485: APPLIED BIOINFORMATICS
- MB 420: MICROBIAL GENOMES, BIOGEOCHEMISTRY, AND DIVERSITY
- ST 415: DESIGN AND ANALYSIS OF PLANNED EXPERIMENTS

Other course with advisor approval

Total Credits: 38-42

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