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

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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td>CH 232</td>
<td>GENERAL CHEMISTRY</td>
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<td>&amp; CH 262</td>
<td>and *LABORATORY FOR CHEMISTRY 232</td>
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<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: 3-5

- BOT 331 PLANT PHYSIOLOGY
- BB 460 ADVANCED CELL BIOLOGY
- BB 484 CHROMATIN AND EPIGENETICS
- BB 493 BIOCHEMISTRY LABORATORY MOLECULAR TECHNIQUES 1
- MB 302 GENERAL MICROBIOLOGY
- MB 303 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: 6-8

- 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, BIODEGRECHEMISTRY, AND DIVERSITY
- ST 415 DESIGN AND ANALYSIS OF PLANNED EXPERIMENTS

Other course with advisor approval

Total Credits 38-42

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