# Biological Physics Option

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

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

The Biological Physics option allows students to focus part of their course load on work in the field of biophysics.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>MTH 251</td>
<td>DIFFERENTIAL CALCULUS</td>
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<td>MTH 252</td>
<td>INTEGRAL CALCULUS</td>
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<tr>
<td>MTH 253</td>
<td>INFINITE SERIES AND SEQUENCES</td>
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<tr>
<td>or MTH 306</td>
<td>MATRIX AND POWER SERIES METHODS</td>
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<td>MTH 254</td>
<td>VECTOR CALCULUS I</td>
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<td>MTH 255</td>
<td>VECTOR CALCULUS II</td>
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<td>MTH 256</td>
<td>APPLIED DIFFERENTIAL EQUATIONS</td>
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<td>MTH 341</td>
<td>LINEAR ALGEBRA I</td>
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<tbody>
<tr>
<td>CH 231 &amp; CH 261</td>
<td>GENERAL CHEMISTRY and LABORATORY FOR CHEMISTRY 231</td>
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<tr>
<td>CH 232 &amp; CH 262</td>
<td>GENERAL CHEMISTRY and LABORATORY FOR CHEMISTRY 232</td>
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<td>CH 233 &amp; CH 263</td>
<td>GENERAL CHEMISTRY and LABORATORY FOR CHEMISTRY 233</td>
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<tr>
<td>PH 211 &amp; PH 221</td>
<td>GENERAL PHYSICS WITH CALCULUS and RECITATION FOR PHYSICS 211</td>
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<td>PH 315</td>
<td>PHYSICS OF CONTEMPORARY CHALLENGES</td>
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<td>PH 335</td>
<td>TECHNIQUES OF THEORETICAL MECHANICS</td>
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<td>PH 365 &amp; PH 366 &amp; PH 367</td>
<td>COMPUTATIONAL PHYSICS LAB and COMPUTATIONAL PHYSICS LAB</td>
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<td>PH 411</td>
<td>ELECTRONICS</td>
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<td>PH 422</td>
<td>PARADIGMS IN PHYSICS: STATIC FIELDS</td>
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<td>PH 423</td>
<td>PARADIGMS IN PHYSICS: ENERGY AND ENTROPY</td>
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<td>PARADIGMS IN PHYSICS: OSCILLATIONS AND WAVES</td>
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<td>PARADIGMS IN PHYSICS: QUANTUM FUNDAMENTALS</td>
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<td>PH 426</td>
<td>PARADIGMS IN PHYSICS: CENTRAL FORCES</td>
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<td>PH 427</td>
<td>PARADIGMS IN PHYSICS: PERIODIC SYSTEMS</td>
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**Senior-level Physics**

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<tbody>
<tr>
<td>PH 401</td>
<td>RESEARCH</td>
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<td>PH 403</td>
<td>*THESIS</td>
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Select two of the following:

- PH 431 | CAPSTONES IN PHYSICS: ELECTROMAGNETISM
- PH 441 | CAPSTONES IN PHYSICS: THERMAL AND STATISTICAL PHYSICS

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1. 15 credits of approved upper-division courses in physics or biological science at the 400 level or beyond, including at least one laboratory course, which form a coherent set. At least 8 of these credits must be in biological science.

* Baccalaureate Core Course (BCC)

^ Writing Intensive Course (WIC)

**Option Code: 586**