**CROSS DISCIPLINARY STUDIES MINOR IN BIOINFORMATICS**

<table>
<thead>
<tr>
<th>Biology/Biochemistry</th>
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<tbody>
<tr>
<td>BIO 161</td>
<td>Introduction to Cell and Molecular Biology</td>
</tr>
<tr>
<td>BIO 302</td>
<td>Human Genetics</td>
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<tr>
<td>or BIO 303</td>
<td>Survey of Genetics</td>
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<tr>
<td>or BIO 351</td>
<td>Principles of Genetics</td>
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<tr>
<td>or CHEM 373</td>
<td>Molecular Biology</td>
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**Depth in Biology/Biochemistry**

Select 6-10 units from the following:

- BIO 305 | Biology of Cancer |
- BIO 308 | Genetic Engineering Technology |
- BIO 327 | Wildlife Ecology |
- BIO 361 | Principles of Animal Physiology |
- BIO 413 | Evolutionary Medicine |
- BIO 414 | Evolution |
- BIO 415 | Biogeography |
- BIO 442 | Behavioral Ecology |
- BIO 444 | Population Ecology |
- BIO 446 | Ecosystem Ecology |
- BIO 475 | Molecular Biology Laboratory |
- BIO 476 | Gene Expression Laboratory |
- BOT 311 | Plants, People and Civilization |
- BOT 326 | Plant Ecology |
- CHEM 202 | Orientation to Biotechnology |
- CHEM 314 | Biochemistry: Fundamentals and Applications |
- CHEM 369 | Biochemical Principles |
- MCRO 320 | Emerging Infectious Diseases |
- MCRO 342 | Public Health Microbiology |
- MCRO 421 | Food Microbiology |
- MCRO 433 | Microbial Biotechnology |
- MSCI 330 | Technologies for Ocean Discovery |

**Computer Science**

- CSC 101 | Fundamentals of Computer Science | 4 |
- CSC 202 | Data Structures | 4 |
- CSC 203 | Project-Based Object-Oriented Programming and Design | 4 |

**Statistics**

- STAT 302 | Statistics II | 4 |
- or STAT 312 | Statistical Methods for Engineers |
- or STAT 313 | Applied Experimental Design and Regression Models |

**Bioinformatics**

- BIO/CHEM 441 | Bioinformatics Applications | 4 |
- or CSC 448 | Bioinformatics Algorithms |
- DATA 301 | Introduction to Data Science | 4 |
- DATA 441 | Bioinformatics Capstone I | 2 |

**Total units** | 41-47

1. Courses in this minor may have additional prerequisites that will not count towards the minor.
2. Please check prerequisites. Your ability to select specific elective courses may vary depending upon the curriculum requirements for your major.