## UW Bothell — B.S. in Biology Degree Checklist [Autumn 2019 - forward]

### Admission Prerequisites

|-----------------------|----------------------------------------|----------------------------|----|-----|-----|-----|----------------|

### Core Requirements

**Physics I & II**
- Choose one series.
  - B PHYS 114 + 117, 115 + 118: General Physics I, II + labs | 10 | AUT, WIN, SPR | I, II |
  - B PHYS 121, 122: Calculus-based Physics I, II + labs | 10 | AUT, WIN, SPR | I, II |

**Calculus**
- Choose one course.
  - STMATH 124: Calculus I | 5 | ✓ ✓ ✓ |
  - B MATH 144: Calculus for the Life and Social Sciences | 5 | ✓ ✓ ✓ |

**Statistics**
- Choose one course.
  - B MATH 215: Statistics for Health Sciences | 5 | ✓ ✓ ✓ |
  - STMATH 341: Introduction to Statistical Inference | 5 | ✓ ✓ ✓ |

**Genetics**
- B BIO 360: Introduction to Genetics | 5 | ✓ ✓ ✓ |

**Evolution**
- B BIO 466: Evolution | 5 | ✓ ✓ ✓ |

**Ecology**
- Choose one course.
  - BES 312: Ecology | 5 | ✓ ✓ ✓ |
  - B BIO 471: Plant Ecology + lab | 5 | ✓ ✓ ✓ |

**Cell Biology**
- Choose one course.
  - B BIO 370: Microbiology I + lab | 5 | ✓ ✓ ✓ |
  - B BIO 372: Stem Cells | 5 | ✓ ✓ ✓ |
  - B BIO 380: Cell Biology [spring class fulfills Writing] | 5 | ✓ ✓ ✓ |

**Physiology**
- Choose one course.
  - B BIO 351: Anatomy and Physiology I + lab | 5 | ✓ ✓ ✓ |
  - B BIO 352 [351 is not prereq]: Anatomy and Physiology II + lab | 5 | ✓ ✓ ✓ |
  - B BIO 353: Plant Physiology | 5 | ✓ ✓ ✓ |

**Investigative Biology**
- Choose one option. Visit [uwb.edu/biology](http://uwb.edu/biology) for info.
  - B BIO 495: Investigative Biology | 5 | ✓ ✓ ✓ |
  - B BIO 499 or other research for credit. Must [petition](https://www.uwb.edu/chemistry) and [present](https://www.uwb.edu/chemistry). | 0 | ✓ ✓ ✓ |
  - Non-credit internship or other experience. Must [petition](https://www.uwb.edu/chemistry) and [present](https://www.uwb.edu/chemistry). | 0 | ✓ ✓ ✓ |

### Elective Requirements

**Biology & Society**

**Upper Division Biology Electives**
- Choose 20 credits of elective coursework (usually four courses).

**General Education & Area of Knowledge Coursework**
- Diversity (DIV) [can be combined with VLPA or I&S] | 3 |
- Composition (C) | 5 |
- Additional Writing (C or W) | 10 |
- Visual, Literary, and Performing Arts (VLPA) | 15 |
- Individuals and Societies (I&S) | 15 |

### Other Graduation Requirements

- At least 180 total credits? [accepted transfer + UW credits] | Check your degree audit |
- At least 45 of last 60 credits taken at UW Bothell as a matriculated student? | Check your degree audit |

### Minors

Minors are optional sets of coursework you can do in addition to your major. Major courses and minor courses can overlap in most cases. UWB Biology students often take the minors to the right, but you can take any minor at any UW campus!

**Chemistry Minor**

- Complete the Intro Biology series, plus **all three** of the following:
  - BBIO 310 (Brain & Behavior) | 5 |
  - BBIO 351 (Anatomy & Physio I) | 5 |
  - BBIO 480 (Neuroscience) | 5 |

**Neuroscience Minor**

- Complete the Intro Biology series, plus **all three** of the following:
  - BBIO 310 (Brain & Behavior) | 5 |
  - BBIO 351 (Anatomy & Physio I) | 5 |
  - BBIO 480 (Neuroscience) | 5 |

**Health Studies Minor**

- Complete both of the following:
  - BHS 201 (Intro to Public Health) |
  - BHS 302 (Soc. Dimensions Hlth) |

**Human Health Analysis**

- Choose one Health Research course:
  - BHS 301 (Health Research) |
  - BHS 302 (Soc. Dimensions Hlth) |

- Choose one BHS/BHLTH course on list:
  - BHS 300 (Health Research) |
  - BIS 312 (Social Research) |
  - BES 301 (Science Meth. & Pract.) |

**Note:** The Chemistry Minor is undergoing changes in the 2019-2020 academic year. Visit [www.uwb.edu/chemistry](http://www.uwb.edu/chemistry) for updates.
### Requirement

<table>
<thead>
<tr>
<th>Biology &amp; Society</th>
</tr>
</thead>
<tbody>
<tr>
<td>Choose one course.</td>
</tr>
</tbody>
</table>

#### Many Biology and Society courses can also fulfill I&S credit! See "I&S" column.

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>B BIO 231</td>
<td>Genes, Genomes, and Heredity</td>
</tr>
<tr>
<td>B BIO 233</td>
<td>Cancer: Biology, Risk, and Treatment</td>
</tr>
<tr>
<td>B BIO 285</td>
<td>Seminar in Biology [see note on left]</td>
</tr>
<tr>
<td>B BIO 310</td>
<td>Brain and Behavior</td>
</tr>
<tr>
<td>B BIO 335</td>
<td>Salmon and Society</td>
</tr>
<tr>
<td>BES 485</td>
<td>Conservation Biology (Once a yr; either WIN or SPR)</td>
</tr>
<tr>
<td>BES 489</td>
<td>Pacific Northwest Ecosystems</td>
</tr>
<tr>
<td>BIS 241</td>
<td>Nature and the Northwest</td>
</tr>
<tr>
<td>BIS 243</td>
<td>Environmental Issues</td>
</tr>
<tr>
<td>BIS 307</td>
<td>Environmental Justice</td>
</tr>
<tr>
<td>BIS 356</td>
<td>Ethics and Environment</td>
</tr>
<tr>
<td>BIS 380</td>
<td>Bioethics</td>
</tr>
<tr>
<td>BIS 391</td>
<td>Environmental History of the Pacific Northwest</td>
</tr>
<tr>
<td>BIS 405</td>
<td>Environmental Education</td>
</tr>
<tr>
<td>BIS 459</td>
<td>Conservation and Sustainable Development</td>
</tr>
<tr>
<td>BISSTS 307</td>
<td>Science, Technology, and Society</td>
</tr>
</tbody>
</table>

#### Biology Electives

Choose 20 credits of elective coursework (usually four courses).

You must select electives from at least two different categories:

- **A** - Ecology/Diversity
- **B** - Cell/Molecular Bio
- **C** - Physio/Neurobiology

#### Miscellaneous electives
do not count towards any category, but can be used towards the 20-credit elective total.

- **One course, one requirement.** Although many courses can fulfill elective credit or a core requirement, a single course cannot fulfill both.

Estimated offerings for BES and BIS courses are subject to change.

- **B BIO 285** is accepted on case-by-case basis. Check with your advisor.

- **B BIO 480** can count for the Biology major or Neuroscience minor, but not both.
<p>| | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>B BIO 400</td>
<td>Advanced Seminar in Biology</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>B BIO 495</td>
<td>Investigative Biology</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>B BIO 498</td>
<td>Independent Study in Biology</td>
<td>1-5</td>
</tr>
<tr>
<td></td>
<td>B BIO 499</td>
<td>Undergraduate Research in Biology</td>
<td>1-5</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Subject to change: All course options, requirements, and policies are subject to change. Check with your advisor to confirm your courses!

More options: This resource only lists courses offered within the past two years. Visit [uwb.edu/biological-sciences/curricula](http://uwb.edu/biological-sciences/curricula) for the full list.

Petitions: Visit [www.uwb.edu/biological-sciences/forms](http://www.uwb.edu/biological-sciences/forms) if you want to try substituting alternative coursework for any requirement.
<table>
<thead>
<tr>
<th>Quarter</th>
<th>I</th>
<th>II</th>
<th>III</th>
<th>IV</th>
</tr>
</thead>
<tbody>
<tr>
<td>BW 390</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>

You can search on your MyPlan app for courses that fulfill these requirements!

**Health Studies Minor**

- Must select from at least two different categories (A, B, C).
- Check your degree audit!

**In addition to your major coursework, complete both of the following:**

- BHS 201 (Intro to Public Health) 5
- BHS 302 (Soc. Dimensions Hlth) 5
- Choose one BHS/BHLTH course on list: uwb.edu/healthstudies/degree-req/hs-electives

- BIS 312 (Social Research) 5
- BES 301 (Science Meth. & Pract.) 5

Check with instructor.

Check with internship.
<p>| | | | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Choose one BHS/BHLTH course on list:

uwb.edu/healthstudies/degree-req/hs-electives

SUM  SPR

✓  —  —

✓  —  —

✓  —  —

✓  —  —

✓  —  —

SUM  W

✓  —  —

✓  —  —

✓  —  —

✓  —  —

✓  —  —

III

✓  —  —
All course options, requirements, and policies are subject to change. Check with your advisor to confirm your courses!

This resource only lists courses offered within the past two years. Visit uwb.edu/biological-sciences/curricula for the full list.

Visit www.uwb.edu/biological-sciences/forms if you want to try substituting alternative coursework for any requirement.

Check with instructor.
Check with internship.