

**What can you do with a Biology (BA) major from SPU?**

The BA version of the Biology major at Seattle Pacific University provides a broad foundation in biology and is especially appropriate for students planning to teach at the junior high or secondary level.

**Potential occupations include:**

- Animal Biologist
- Lab Manager
- Clinical Technician
- Secondary Teacher
- Emergency Medical Technician
- Science Writer

**Suggested transfer preparation at Shoreline Community College**

Associate in Arts (AA-DTA)

**Other majors at SPU with similar requirements in the first two years**

Biology (BS); Cellular and Molecular Biology; Life Science

**Courses in the major you may complete at Shoreline Community College**

Shoreline Community College Courses	Equivalent SPU Courses
BIOL& 211 Majors Cellular: Biology (5)	BIO 2101 General Biology (5)
BIOL& 212 Majors Animal: Biology (5)	BIO 2102 General Biology (5)
BIOL& 213 Majors Plant: Biology (5)	BIO 2103 General Biology (5)
CHEM& 131 Intro to Organic/Biochemistry (5)	CHM 1330 Survey of Organic Chemistry (5)
CHEM 171 Gen Inorganic Chemistry I (4) – and – CHEM 181 Gen Inorganic Chemistry I Lab (2.5)	CHM 1211 General Chemistry I (5)
CHEM 172 Gen Inorganic Chemistry II (4) – and – CHEM 182 Gen Inorganic Chemistry II Lab (2.5)	CHM 1212 General Chemistry II (5)
MATH& 146 Introduction to Statistics (5) – or – MATH 211 Elements of Statistical Method (5)	MAT 2360 Intro to Stats for Sciences (5)
<i>Consider taking any of the following courses:</i> BIOL 277 Immunology (6) – or – BIOL 276 and 281 (6) BIOL& 260 Microbiology (5) BIOL 124 Northwest Flora (5)	BIO 3350 Immunology (5) * BIO 3351 General Microbiology (5) * BIO 3453 Biodiversity: Plant Idnt & Tax (5) *

*Note: Only courses with a regular grade of 1.7 (C-) or higher may count toward a major or minor.*

*\*Indicates course is not required, but can be transferred to SPU and applied toward the major as lower-division elective credit.*

**Admission to the major**

If you identify the Biology (BA) major as your first choice on your application for admission to the University, you will automatically gain entry to the major when admitted to SPU.

**Learn more about the Biology (BA) major at:**

- <http://spu.edu/biology-ba>
- <http://spu.edu/biology-reqs>

**Get more information** about transfer admission to Seattle Pacific University at <http://spu.edu/transfer>.

Questions? Contact [transfer@spu.edu](mailto:transfer@spu.edu).

## Courses to complete at SPU

BIO 1859 Biology Cornerstone Seminar (1)
BIO 3325 Genetics (5)
BIO 4330 Evolutionary Mechanisms (5)
Select <b>one</b> of the following Physiology Core courses: <ul style="list-style-type: none"> <li>BIO 4256 Environmental Physiology (5)</li> <li>BIO 4413 Animal Physiology (5)</li> <li>BIO 4415 Plant Physiology (5)</li> <li>BIO 4418 Neurobiology (5)</li> <li>BIO 4419 Medical Virology (5)</li> </ul>
Select <b>one</b> of these Taxonomy/Development courses: <ul style="list-style-type: none"> <li>BIO 3000 Intro Biological Anthropology (5)</li> <li>BIO 3320 Principles of Development (5)</li> <li>BIO 3432 Biodiversity: Vertebrate Bio (5)</li> <li>BIO 3453 Biodiversity: Plant Ident &amp; Tax (5)</li> <li>BIO 4435 Biodiversity: Parasites &amp; Pests (5)</li> <li>BIO 4744 Marine Botany (5)</li> </ul>
Select <b>one</b> of the following Ecology courses: <ul style="list-style-type: none"> <li>BIO 3310 Ecology (5)</li> <li>BIO 4810 Marine Ecology (5)</li> <li>BIO 4815 Aquatic Ecology (5)</li> <li>BIO 4825 Forest Ecology (5)</li> <li>BIO 4835 Conservation Ecology (5)</li> <li>BIO 4840 Chemical Ecology (5)</li> </ul>
BIO 3615 Issues and Values in Biology (3)
BIO 4899 Natural Sciences Seminar (2)
Select <b>one</b> of the following courses (unless already taken to satisfy one of the groups listed above): <ul style="list-style-type: none"> <li>BIO 3453 Biodiversity: Plant Ident &amp; Tax (5)</li> <li>BIO 4415 Plant Physiology (5)</li> <li>BIO 4744 Marine Botany (5)</li> </ul>
Biology Electives (15) **

\*\* 0 – 15 credits required, depending on electives transferred.

## Other requirements for the degree

In addition to the major, the degree requires completion of any remaining general education and University requirements, and at least 180 college-level credits total, including 60 upper-division (UD) credits.

All students must complete the University Foundations Requirement at SPU – even those who have completed the Direct Transfer Agreement (DTA) Associate Degree.

Students admitted with fewer than 90 credits (freshmen and sophomores) complete 15 credits:

UFDN 1000 The Christian Faith (5)  
 UFDN 2000 Christian Scriptures (5)  
 UFDN 3100 Christian Theology (5)

Students admitted with 90 credits or more (juniors and seniors) complete 10 credits:

UFDN 3001 Christian Scriptures (5)  
 UFDN 3100 Christian Theology (5)

## Suggested course plan for your junior and senior years at SPU

Assumes junior standing at entrance and successful completion of BIOL& 211, 212, and 213; CHEM& 131; CHEM 171, 172, 181, and 182; and MATH& 146 or MATH 211 prior to transfer.

Junior Year			
Autumn	Winter	Spring	Notes
<ul style="list-style-type: none"> <li>BIO 1859 (5)</li> <li>BIO 3325 (5) -- or take this winter.</li> <li>+ credits to total 15 – 18</li> </ul>	<ul style="list-style-type: none"> <li>BIO 3325 (5) -- if not taken in the fall.</li> <li>+ credits to total 15 – 18</li> </ul>	<ul style="list-style-type: none"> <li>+ 15 – 18 credits</li> </ul>	<ul style="list-style-type: none"> <li>Most upper-division biology courses are offered only once per year – and some are only offered every other year – check the Time Schedule and plan accordingly.</li> </ul>
<b>Any Quarter Offered:</b> <ul style="list-style-type: none"> <li>One of the following Physiology Core courses: BIO 4256, 4413, 4415, 4418, or 4419 (5).</li> <li>One of the following Taxonomy/Dev courses: BIO 3000, 3320, 3432, 3453, 4435, 4840 (5).</li> <li>One of the following Ecology courses: BIO 3310, 4810, 4815, 4825, 4835, 4840 (5).</li> <li>Begin Biology electives, general education and University requirements, as needed.</li> </ul>			
Senior Year			
Autumn	Winter	Spring	Notes
<ul style="list-style-type: none"> <li>BIO 3615 (3)</li> <li>+ credits to total 15 – 18</li> </ul>	<ul style="list-style-type: none"> <li>BIO 4330 (5)</li> <li>+ credits to total 15 – 18</li> </ul>	<ul style="list-style-type: none"> <li>+ 15 – 18 credits</li> </ul>	<ul style="list-style-type: none"> <li>Be sure to complete the Botany requirement (you must take BIO 3453, 4415, <b>or</b> 4744, if not as your chosen Physiology, Taxology, or Ecology course, then as an elective).</li> </ul>
<b>Any Quarter Offered:</b> <ul style="list-style-type: none"> <li>Botany Requirement (5) -- see Notes.</li> <li>BIO 4899 (2) -- must be taken twice, for one credit each time.</li> <li>Complete any outstanding major electives; physiology core, taxonomy/development, and ecology courses; general education; and University requirements, including at least 180 credits total at 90 upper-division credits.</li> </ul>			