SEATTLE PACIFIC UNIVERSITY

BS in Physiology
2019-20

What can you do with a Physiology major from SPU?
The Physiology major at Seattle Pacific University looks at how our cells, muscles, and organs interact, providing a solid foundation for grad school and pre-professional training for medicine, dentistry, optometry, pharmacy, veterinary medicine, and other health-related and applied biology fields.

Potential occupations include:

- Agricultural researcher
- Dentist
- Forensic Scientist
- Pharmacist
- Physician
- Veterinarian

Suggested Transfer Preparation at North Seattle College
AS-DTA or AA-DTA, with completion of the courses below.

Majors at SPU with similar requirements in first two years
BS in Biology; Cellular and Molecular Biology; Biochemistry

Courses in the major you may complete at North Seattle College

North Seattle College Courses	Equivalent SPU Courses
BIOL& 211 Majors Cellular w/Lab (5)	BIO 2101 General Biology (5)
BIOL& 212 Majors Animal w/Lab (6)	BIO 2102 General Biology (5)
BIOL& 213 Majors Plant w/Lab (6)	BIO 2103 (if with BIOL& 212) (5)
BIOL& 260 Microbiology (5)	BIO 3351 General Microbiology (5)*
CHEM& 161 General Chemistry I w/Lab (6)	CHM 1211 General Chemistry I (5)
CHEM& 162 General Chemistry II w/Lab (6)	CHM 1212 General Chemistry II (5)
CHEM& 163 General Chemistry III w/Lab (6)	CHM 1213 General Chemistry III (3) AND CHM 2213 Inorganic Qualitative Analysis (2)
MATH& 146 Introduction to Statistics (5)	MAT 2360 Intro to Stats for Sciences (5)
MATH& 151 Calculus I (5)	MAT 1234 Calculus I (5)

*This course, which is optional rather than required, transfers as a lower-division version of the SPU course. Completion of the NSC course is **not** assumed in the suggested course plan.

Note: Completion of these courses is not required for transfer, but may aid in timely completion of your degree. Only courses with a regular grade of 1.7 (C-) or higher may count toward a major or minor.

Admission to the Major
Admission to this major is guaranteed for transfer students admitted to SPU. Once you begin classes at SPU, complete the Major Application form in the Banner Information System to formalize your acceptance to the major.

Note that the BS in Physiology is designed for students intending to pursue professional postgraduate training in the health sciences. Such postgraduate programs are competitive and require a high GPA for admission.

Learn more about the BS in Physiology major and about pre-professional health sciences at:
http://spu.edu/physiology
http://spu.edu/physiology-reqs
http://spu.edu/pre-pro-health

Get more information about transfer admission to Seattle Pacific University at: http://spu.edu/transfer
Questions? Contact transfer@spu.edu

Courses in the major to complete at SPU

BIO 1859 Biology Cornerstone Seminar (1)
BIO 3325 Genetics (5)
BIO 3899 Scientific Literature (1)
BIO 4352 Cell Biology (5)Environmental Diversity
BIO 4899 Natural Sciences Seminar (2)
CHM 3371 Organic Chemistry I (5)
CHM 3372 Organic Chemistry II (5)
CHM 3373 Organic Chemistry III (5)
Physiology Core (15 credits)
Molecular/Cellular/Microbiology Core (13-15)
Ecology and Evolution Core (5)
Ethics, Health Sciences or Research (3)
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.

University Foundations Requirement

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 admission with at least junior standing and satisfactory completion of BIOL& 211, 212, 213; CHEM& 161, 162, and 163; and MATH& 146 and 151 prior to transfer.)

<table>
<tr><th colspan="4">Junior Year</th></tr>
<tr><th>AUTUMN</th><th>WINTER</th><th>SPRING</th><th>NOTES</th></tr>
<tr><td>• BIO 1859 (1)
• BIO 3325 (5)*
• CHM 3371 (5)</td><td>• CHM 3372 (5)
• +10-13 credits</td><td>• CHM 3373 (5)
• +10-13 credits</td><td rowspan="2">BIO 3325 is offered both Aut and Win. It is a pre-requisite for BIO 4330, which is only offered in Win.

Note that most upper division courses are offered only in certain quarters, and some courses are offered in alternate years.

A full-year sequence of Physics is recommended for most post-graduate programs.</td></tr>
<tr><td colspan="3">ANY QUARTER OFFERED
BIO 3899; 15 credits of Physiology Core courses selected from BIO 4256, 4410, 4413, 4415, and 4418;

Complete 5 credits of ecology and evolution core courses selected from: BIO 3000, 3305, 3310, 3432, 3434, 3453, 4330, 4744, 4810, 4815, 4825, 4835, 4840, and 4880.

Complete UFDN, UCOR, other general education and general University requirements as needed.</td></tr>
<tr><th colspan="4">Senior Year</th></tr>
<tr><th colspan="3">ANY QUARTER OFFERED</th><th>NOTES</th></tr>
<tr><td colspan="3">BIO 4899 (must be taken for 1 credit twice, 2 credits total);

Choose 3 credits of ethics, health sciences or research from: BIO 3615, 4978 (1), 4979 (2), PHI 1002, or PHI 2222.

Complete at least 13 credits of Molecular/cellular/microbiology core from: BIO 3320, 3350, 3351, 4325, 4361, 4362, 4420, 4435.

Complete UFDN, UCOR, other general education and general University requirements as needed.</td><td>BIO 4418 can count in one, but not both of the physiology or mol/cel/micro cores.

BIO 4361 and 4362 are recommended preparation for the MCAT.

Take sufficient credits to reach 180 total and 60 upper-division (UD)</td></tr>
</table>