

# THE UNIVERSITY OF PUGET SOUND

## 2021-2022 CURRICULUM GUIDE

### BIOLOGY

DEGREE: BS

CONTACT PERSON: STACEY WEISS

### A SUGGESTED four-year program:

#### Fall Semester Classes

#### Spring Semester Classes

Freshman	Units		Units
SSI 1	1	SSI 2	1
BIOL 111/lab (NS core)	1	BIOL 112/lab (NS core)	1
CHEM 110/lab or CHEM 115/lab <sup>1</sup>	1	CHEM 120/lab or CHEM 230/lab	1
FL (if needed) or MATH 180 or 181 <sup>2</sup> , or Elective	1	FL (if needed) or Elective	1
Sophomore	Units		Units
BIOL 211, 212, or 213 / lab <sup>3</sup>	1	BIOL 211, 212, or 213 / lab <sup>3</sup>	1
CHEM 250/lab	1	Science elective 1**	1
Approaches core	1	Approaches core	1
Elective or MATH 180 or 181 <sup>2</sup> (MA core)	1	Elective	1
Junior	Units		Units
BIOL 211, 212, or 213 / lab <sup>3</sup> or Elective	1	BIOL 211, 212, or 213 / lab or BIOL elective (312+)**	1
BIOL 334 <sup>4</sup> or Science elective 2***	1	BIOL 332 <sup>4</sup> or Science elective 2***	1
Elective	1	Elective	1
Approaches core	1	Elective	1
Senior	Units		Units
CN core <sup>5</sup>	1	BIOL elective (312+)**	1
BIOL elective (312+)**	1	BIOL elective (312+)** or Elective	1
Elective	1	Elective	1
Elective	1	Elective	1

#### **NOTES:**

**Puget Sound requires a total of 32 units to graduate**

- 1) Three units of Chemistry are required: CHEM 110, 120, 250 or CHEM 115, 230, 250. Chemistry is often but is not required to be taken in the first year. Talk to your advisor about alternatives. Note that CHEM 115 or CHEM 120 is a pre-requisite for BIOL 212.
- 2) MATH 180 or 181 is required but may be delayed; If pre-calculus (MATH 110) is recommended, it serves as a non-BIOL elective.
- 3) 200-level BIOL courses can be taken in any order as long as course pre-requisites are fulfilled.
- 4) Once the physiology requirement of either BIOL 334 or 332 is fulfilled, the other physiology course (BIOL 332 or 334) can be taken as a science elective.
- 5) Of the three units of upper division coursework required outside the first major, the Connections course will count for one unless it is used to meet a major requirement.

\*\*Two advanced BIOL 312+ units (excludes BIOL 398). Can include GEOL 306; CHEM 461; or one of BIOL 390, 392, 490, 491, 495 or 496.

\*\*\*Two additional units from: BIOL 312+; CHEM 251+; CSCI 141+; EXSC 222; GEOL 101+; MATH 150+; NRSC 201, 350; or PHYS 111+.

# THE UNIVERSITY OF PUGET SOUND

## COURSE CHECKLIST BIOLOGY

### Core Curriculum Requirements

COURSE	Units	Term	Grade
SSI 1			
SSI 2			
AR			
HM			
MA (MATH 180 or 181) <sup>2</sup>			
NS (BIOL 111 or 112) <sup>1</sup>			
SL			
CN			
<b>KEY</b>			
SSI1= Seminar in Scholarly Inquiry1 SSI2= Seminar in Scholarly Inquiry2 AR= Artistic Approaches HM= Humanistic Approaches	MA= Mathematical Approaches NS= Natural Scientific Approaches SL= Social Scientific Approaches CN= Connections FL=Foreign Language		

#### Foreign Language Requirement (circle one):

- 1) Two semesters at 101/102 level or One semester at 200+ level
- 2) Proficiency exam (3rd year high school level or 1st year college level)
- 3) AP foreign language score of 4 or 5
- 4) IB higher level foreign language score of 5, 6, or 7

#### KNOWledge, Identity, and Power Requirement:

One course. See Bulletin for details. Courses may also fulfill other program or graduation requirements.

#### Upper Division Level Requirement:

Three units at the upper division level outside the first major.

### THIS FORM IS NOT AN OFFICIAL GRADUATION ANALYSIS

#### Notes:

- 1) These major requirements may be used to fulfill the Natural Scientific Approaches core.
- 2) These major requirements may be used to fill the Mathematical Approaches core.

The three units of Chemistry are selected from: CHEM 110, 120, 250; OR CHEM 115, 230, 250.

\*Two of the three advanced Biology electives must be taken in residence at Puget Sound. BIOL 398 may not be used; GEOL 306 and CHEM 461 may each count as one unit. One unit may count toward the major from research or independent study courses: BIOL 390, 392, 490, 491, 495, or 496.

At least two of these electives must also have a lab component. One unit of junior or senior-level research (BIOL 390, 490, or 491) fulfills the lab course requirement.

\*\*Two additional units from: BIOL 312+ (excluding BIOL 398); CHEM 251+; CSCI 141+; EXSC 222; GEOL 101+; MATH 150+; NRSC 201, 350; PHYS 111+. CHEM 251 highly recommended if post-graduate program is planned.

**The following courses do not satisfy major or minor requirements: BIOL 101, 102, 201, 205, 398, 498, or 499; INTN 497.**

Biology majors are encouraged to participate in the undergraduate research program, provided they consult with and gain approval from a biology faculty research advisor and submit a research proposal. Related courses include 290/390/490 (Directed research), and 491 (Senior Thesis). Students planning a senior thesis should enroll in BIOL 201 (Biology Colloquium), BIOL 392 (Introduction to Biological research) and either one unit of BIOL 491 or BIOL 490 and 491. One research unit or independent study (390, 490, and 491) may count as an advanced elective for the major.

### Major Requirements

COURSE	Units	Term	Grade
BIOL 111 <sup>1</sup>			
BIOL 112 <sup>1</sup>			
BIOL 211			
BIOL 212			
BIOL 213			
BIOL 332 or 334			
<b>Three units of Advanced BIOL (312+, excluding 398)*</b>			
1.			
2.			
3.			
CHEM 110 (or CHEM 115) <sup>1</sup>			
CHEM 120 (or CHEM 230)			
CHEM 250			
MATH 180 or 181 <sup>2</sup>			
<b>Two Science Electives:**</b>			
1.			
2.			