# THE UNIVERSITY OF PUGET SOUND

2018-2019 CURRICULUM GUIDE

# BIOLOGY **DEGREE: BS** CONTACT PERSON: ANDREAS MADLUNG

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# A suggested four-year program:

Fall Semester Classes		<u>Spring Semester Classes</u>				
Freshman	Units		Units			
SSI 1	1	SSI 2	1			
BIOL 111/lab (NS core)	1	BIOL 112/lab <sup>2</sup> (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>1</sup> (MA core)	1	FL (if needed) or Elective	1			

Sophomore	Units		Units
BIOL 211/lab or BIOL 212/lab <sup>3</sup>	1	BIOL 212/lab or BIOL 211/lab <sup>3</sup>	1
CHEM 250/lab	1	Science elective 1 <sup>**</sup>	1
Approaches core	1	Approaches core	1
Elective or MATH 180 or 181 <sup>1</sup> (MA core)	1	Elective	1

Junior	Units		Units
BIOL 213/lab <sup>4</sup> or Elective	1	BIOL 213/lab <sup>4</sup> or BIOL elective (312+)**	1
BIOL 334 <sup>5</sup> or Science elective 2 <sup>***</sup>	1	BIOL 332 <sup>5</sup> or Science elective 2 <sup>***</sup>	1
Elective	1	Elective	1
Approaches core	1	Elective	1

Senior	Units		Units
CN core <sup>6</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:**

1) Math may be delayed for a year or two but Chemistry should be tak CHEM 110, 120, 250 or CHEM 115, 230, 250.

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

- 2) BIOL 111 recommended as prerequisite course.
- 3) For students completing CHEM 230 (or CHEM 120) in the first year, BIOL 212 may be taken before BIOL 211.
- 4) Biology 111 and one year of college chemistry must be taken before BIO 213.
- 5) 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.

6) 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.

\*\*BIOL 312+ (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 (BS)

CORE CURRICULUM			MAJOR REQUIREMENTS				
UNIVERSITY CORE	CRS	TERM	GRADE	COURSE	UNITS	TERM	GRADE
SSI 1				BIOL 111*			
SSI 2				BIOL 112*			
AR				BIOL 211			
HM				BIOL 212			
MA (MATH 180 or 181) **				BIOL 213			
NS (BIOL 111 or 112)*				BIOL 332 or 334			
SL				Three units of Advanced BIOL (	312+, excludi	1g 398)*:	**
CN				1.			
KEY         SSI1= Seminar in Scholarly Inquiry1       MA= Mathematical Approaches         SSI2= Seminar in Scholarly Inquiry2       NS= Natural Scientific Approaches         AR= Artistic Approaches       SL= Social Scientific Approaches         HM= Humanistic Approaches       CN= Connections         FI       F         F       F			2.				
			3.				
			Three units of Chemistry:				
				1.			
FL= Foreign Language				2.			
<ul> <li>Foreign Language Requirement (circle one)</li> <li>1) Two semesters at 101/102 level or One semester at 200+ level</li> <li>2) Proficiency exam (3rd year high school level or 1st year college level)</li> <li>3) AP foreign language score of 4 or 5</li> <li>4) IB higher level foreign language score of 5, 6, or 7</li> </ul>			)0+ level	3.			
			MATH 180 or 181**				
			Two Science electives****				
			1.				
Upper Division Level Requirement Three units at the upper division level outside the first major.			2.				
<b>KNOWledge, Identity, and Power Requirement</b> One course. See Bulletin for details. Courses may also fulfill other			THIS FORM IS NOT AN				

### NOTES

**OFFICIAL GRADUATION ANALYSIS** 

\*These major requirements may be used to fulfill the Natural Scientific Approaches core.

\*\*These major requirements may be used to fill the Mathematical Approaches core.

\*\*\*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.

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

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

CHEM 251 highly recommended if post-graduate program is planned.

program or graduation requirements.

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.

At least two of the Biology electives (312+; excluding 398) must be taken in residence at Puget Sound. At least two of these electives must also have a lab component.