**THE UNIVERSITY OF PUGET SOUND**

2015-2016 CURRICULUM GUIDE

**BIOLOGY**

DEGREE: BS

CONTACT PERSON: ALYCE DEMARAIS

|  |  |  |  |
| --- | --- | --- | --- |
|  | **A suggested four-year program:** |  |  |
|  | *Fall Semester Classes* |  | *Spring Semester Classes* |  |  |
|  |  |  |  |  |  |
|  | **Freshman** | **Units** |  | **Units** |  |
|  | SSI1 | 1 | SSI2 | 1 |  |
|  |  |  |  |  |  |
|  | BIOL 111/lab (NS core) | 1 | BIOL 112/lab (NS core) | 1 |  |
|  |  |  |  |  |  |
|  | CHEM 110/lab or CHEM 115/lab1 | 1 | CHEM 120/lab or CHEM 230/lab | 1 |  |
|  | FL (if needed) or MATH 180 or 1811  | 1 | FL (if needed) or elective | 1 |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  | **Sophomore** | **Units** |  | **Units** |  |
|  | BIOL 211/lab or BIOL 212/lab2 | 1 | BIOL 212/lab or BIOL 211/lab2 | 1 |  |
|  |  |  |  |  |  |
|  | CHEM 250/lab | 1 | Science elective | 1 |  |
|  | Approaches core | 1 | Approaches core | 1 |  |
|  |  |  |  |  |  |
|  | Elective or MATH 180 or 181 | 1 | Elective | 1 |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  | **Junior** | **Units** |  | **Units** |  |
|  | BIOL 311/lab3 or elective | 1 | BIOL 311/lab3 or elective | 1 |  |
|  |  |  |  |  |  |
|  | BIOL 3344 or science elective | 1 | BIOL 3324 or science elective | 1 |  |
|  | Elective5 | 1 | Elective5 |  |  |
|  | Approaches core | 1 | Elective | 1 |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  | **Senior** | **Units** |  | **Units** |  |
|  | CN core6 | 1 | BIOL elective (312-477)\*\*\* | 1 |  |
|  |  |  |  |  |  |
|  | BIOL elective (312-496)\*\*\* | 1 | BIOL elective (312-477)\*\*\* | 1 |  |
|  | Elective | 1 | Elective | 1 |  |
|  |  |  |  |  |  |
|  | Elective | 1 | Elective | 1 |  |
|  |  |  |  |  |  |
| **NOTES:** |  | **Puget Sound requires a total of 32 units to graduate.** |  |  |
|  |  |  |  |

1. Math may be delayed for a year or two, but Chemistry should be taken in the first year. Three units of Chemistry are required: CHEM 110, 120, 250 or CHEM 115, 230, 250.
2. For students completing CHEM 230 (or CHEM 120) in the first year, BIOL 212 may be taken before BIOL 211.
3. Recommended that BIOL 212 be taken before BIOL 311. May be taken junior or senior year
4. Once the physiology requirement is filled, BIOL 332 or 334 can be taken as a science elective
5. PHYS 111/112 or 121/122 recommended.
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.

**THE UNIVERSITY OF PUGET SOUND**

COURSE CHECKLIST

**BIOLOGY (BS)**

**CORE CURRICULUM** **MAJOR REQUIREMENTS**

|  |  |  |
| --- | --- | --- |
| UNIVERSITY CORE | CRS TERM | GRADE |
|  |  |  |

SSI1

SSI2

AR

HM

MA (MATH 180 or 181) \*\*

NS (BIOL 111, 112, CHEM 110, 115, 230)\*

SL

CN

**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

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.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | COURSE | UNITS | TERM | GRADE |
|  |  |  |  |
| BIOL 111\* |  |  |  |
|  |  |  |  |
| BIOL 112\* |  |  |  |
|  |  |  |  |
| BIOL 211 |  |  |  |
|  |  |  |  |
| BIOL 212 |  |  |  |
|  |  |  |  |
| BIOL 311 |  |  |  |
|  |  |  |  |
| BIOL 332 or 334 |  |  |  |
|  |  |  |  |
| 3 Units of Advanced BIOL (312-496 or above) |  |  |  |
| \*\*\* |  |  |  |
|  |  |  |  |  |
| 1. | (312-477) |  |  |  |
|  |  |  |  |  |
| 2. | (312-477) |  |  |  |
|  |  |  |  |  |
| 3. | See Note \*\*\* below |  |  |  |
|  |  |  |  |
| 3 Units of Chemistry: CHEM 110, 120, 250; OR 115, 230, 250 |  |  |  |
|  |  |  |  |
|  |  |  |  |
| MATH 180 or 181\*\* |  |  |  |
|  |  |  |  |
| Science electives\*\*\*\* |  |  |  |
|  |  |  |  |  |
| 1. |  |  |  |  |
|  |  |  |  |  |
| 2. |  |  |  |  |
|  |  |  |  |  |
| 3. |  |  |  |  |
|  |  |  |  |  |

**THIS FORM IS**

**NOT AN**

**OFFICIAL GRADUATION ANALYSIS**

**NOTES**

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

\*\*\*\*Three additional units from the following: One unit from BIOL 312 or higher; CHEM 251 or higher; CSCI 161 or higher; EXSC 222; Geology; MATH 150 or higher; NRSC 201, 350; PHYS 111 or higher.

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

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

Biology majors are encouraged to participate in the undergraduate research program, provided they have the required 3.0 GPA and submit the required research proposal after consulting with a research advisor. Related courses include 290/390/490, and 491. Students planning a senior thesis enroll in either 490/491 or 491 alone. One research unit or independent study (390, 490, 491, 495, and 496) may count as an advanced elective for the major.

Two of three advanced electives must be taken in residence at Puget Sound excluding 398. At least two of these electives must have a lab component.