**THE UNIVERSITY OF PUGET SOUND**

2015-2016 CURRICULUM GUIDE

**BIOCHEMISTRY**

DEGREE: BS

CONTACT PERSON: JOHN HANSON

|  |  |  |
| --- | --- | --- |
|  | **A suggested four-year program:** |  |
| *Fall Semester Classes* |  | *Spring Semester Classes* |  |
|  |  |  |  |
| **Freshman** | **Units** |  | **Units** |
|  |  |  |  |
| SSI 1 |  | 1 | SSI 2 | 1 |
|  |  |  |  |  |
| CHEM 110/lab or 115/lab1 (NS core) |  | 1 | CHEM 120/lab or 230/lab1 | 1 |
|  |  |  |  |  |
| MATH 180 (MA core) |  | 1 | MATH 181 | 1 |
|  |  |  |  |  |
| Approaches core |  | 1 | BIOL 111 | 1 |
|  |  |  |  |  |
|  |  |  |  |
| **Sophomore** | **Units** |  | **Units** |
|  |  |  |  |
| CHEM 250/lab |  | 1 | CHEM 251/lab | 1 |
|  |  |  |  |  |
| PHYS 121/lab |  | 1 | PHYS 122/lab | 1 |
|  |  |  |  |  |
| FL (if needed) or Approaches core |  | 1 | FL (if needed) or Approaches core | 1 |
|  |  |  |  |  |
| MATH 280 |  | 1 | BIOL 212/lab | 1 |
|  |  |  |  |  |
|  |  |  | CHEM 231 (if needed)2 | 0.5 |
|  |  |  |  |
| **Junior** | **Units** |  | **Units** |
|  |  |  |  |
| CHEM 340 |  | 1 | BIOL 311/lab | 1 |
|  |  |  |  |  |
| Approaches core (if needed) |  | 1 | Approaches core (if needed) | 1 |
|  |  |  |  |  |
| CHEM 330, 341, or 4204 |  | 1 | CHEM or BIOL 300-400 level elective3 | 1 |
| Elective |  | 1 | Elective | 1 |
|  |  |  |  |  |
|  |  |  |  |
| **Senior** | **Units** |  | **Units** |
|  |  |  |  |
| CHEM 460/lab |  | 1 | CHEM 461 | 1 |
|  |  |  |  |  |
| CN core5 |  | 1 | Elective | 1 |
| Elective |  | 1 | Elective | 1 |
|  |  |  |  |  |
| Elective |  | 1 | Elective | 1 |
|  |  |  |  |  |
|  |  |  | **Puget Sound requires a total of 32 units to graduate.** |  |

**NOTES:**

1. CHEM 110, 120 and 231 or CHEM 115 and 230.
2. Either CHEM 110 and 120 or 115 and 230 serve as prerequisites for CHEM 250. Biochemistry majors who take the 110/120 sequence will also need to take 231. Students enrolling in CHEM 231 may have up to 4.5 academic units without incurring additional tuition fees.
3. BIOL 361 may not be used to satisfy this requirement.
4. CHEM 330 is offered in fall, while 341 and 420 are offered in spring.
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.

A minimum grade of C must be earned in all courses for the major.

Upper-level courses in Biology that are not used for the Biochemistry major will count as upper division courses outside the major.

**THE UNIVERSITY OF PUGET SOUND**

COURSE CHECKLIST

**CHEMISTRY (BS IN BIOCHEMISTRY)**

|  |  |  |
| --- | --- | --- |
| **CORE CURRICULUM** | **MAJOR REQUIREMENTS** |  |
| UNIVERSITY CORE |  | CRS | TERM | GRADE |  | COURSE | UNITS | TERM | GRADE |  |
|  |  |  |  |  |  |  |  |  |  |  |
| SSI1 |  |  |  |  |  | CHEM 110, 120 and 231 | 2.5 |  |  |  |
|  |  |  |  |  |  | OR | OR |  |  |  |
| SSI2 |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | CHEM 115 and 230 | 2 |  |  |  |
| AR |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| HM |  |  |  |  |  | CHEM 250 | 1 |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| MA (MATH 180 or 181) # |  |  |  |  |  | CHEM 251 | 1 |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| NS (CHEM 110 or 115) # |  |  |  |  |  | CHEM 340 | 1 |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| SL |  |  |  |  |  | CHEM 460 | 1 |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| CN |  |  |  |  |  | CHEM 461 | 1 |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| **KEY**SSI1= Seminar in Scholarly Inquiry1 AR= Artistic ApproachesSSI2= Seminar in Scholarly Inquiry2 HM= Humanistic ApproachesMA= Mathematical Approaches CN= ConnectionsNS= Natural Scientific Approaches FL= Foreign LanguageSL= Social Scientific Approaches  |  | BIOL 111 | 1 |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  | BIOL 212 | 1 |  |  |  |
|  |  |  |  |  |  |  |  |
|  | BIOL 311 | 1 |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  | CHEM 330, 341 or 420 | 1 |  |  |  |
| **Foreign Language Requirement** (circle one)1) Two semesters at 101/102 level or One semester at 200+ level2) Proficiency exam (3rd year high school level or 1st year college  level)3) AP foreign language score of 4 or 54) IB higher level foreign language score of 5, 6, or 7 |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | CHEM or BIOL 300+ elective\* | 1 |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  | MATH 180 | 1 |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  | MATH 181 | 1 |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | MATH 280 | 1 |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **Upper Division Level Requirement**Three units at the upper division level outside the first major. |  |  |  |  |  |  |  |
|  |  | PHYS 121 | 1 |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | PHYS 122 | 1 |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **KNOWledge, Identity, and Power Requirement**One course. See Bulletin for details. Courses may also fulfill other program or graduation requirements. |  | **NOTES**# These major requirements may be used to fulfill university cores.* BIOL 361 may not be used to satisfy this requirement.

 A minimum grade of C must be earned in all courses for the major. Majors in Biochemistry may not earn additional majors or minors in Chemistry or Molecular and Cellular Biology. Majors in Biochemistry are encouraged to participate in undergraduate research in the Chemistry or Biology Departments.**THIS FORM IS****NOT AN****OFFICIAL GRADUATION ANALYSIS** |  |
|  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |