**THE UNIVERSITY OF PUGET SOUND**

2015-2016 CURRICULUM GUIDE

**PHYSICS/DUAL DEGREE ENGINEERING**

DEGREE: BA IN PHYSICS: SAMPLE 3-YEAR PROGRAM

CONTACT PERSON: RAND WORLAND

|  |  |  |  |
| --- | --- | --- | --- |
|  | **A suggested three-year program:** |  |  |
| *Fall Semester Classes* |  | *Spring Semester Classes* |  |  |
|  |  |  |  |  |
| **Freshman** | **Units** |  | **Units** |  |
|  |  |  |  |  |
| SSI 1 |  | 1 | SSI 1 | 1 |  |
|  |  |  |  |  |  |
| PHYS 121/Lab (NS core) |  | 1 | PHYS 122/lab (NS core) | 1 |  |
|  |  |  |  |  |  |
| MATH 180 (MA core) |  | 1 | MATH 181 | 1 |  |
|  |  |  |  |  |  |
| FL (if needed) or elective |  | 1 | FL (if needed) or elective | 1 |  |
|  |  |  |  |  |  |
|  |  |  |  |  |
| **Sophomore** | **Units** |  | **Units** |  |
|  |  |  |  |  |
| PHYS 221/lab |  | 1 | PHYS elective (209 or higher) | 1 |  |
|  |  |  |  |  |  |
| MATH 280 |  | 1 | MATH 290 | 1 |  |
|  |  |  |  |  |  |
| CHEM 110/lab or 115/lab |  | 1 | CHEM 120/lab or 230/lab | 1 |  |
|  |  |  |  |  |  |
| CSCI 161 |  | 1 | Approaches core | 1 |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| **Junior** | **Units** |  | **Units** |
|  |  |  |  |
| PHYS 305 |  | 1 | PHYS elective (209 or higher) | 1 |
|  |  |  |  |  |  |
| PHYS 351 |  | 1 | Elective | 1 |  |
|  |  |  |  |  |  |
| MATH 301 |  | 1 | CN core\* | 1 |  |
|  |  |  |  |  |  |
| Approaches core |  | 1 | Approaches core | 1 |  |
|  |  |  |  |  |  |

**NOTES:**

\* 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.

Both Columbia University and Washington University (St. Louis) have specific requirements which can be met by choosing core classes appropriately. See the Dual Degree Engineering requirements.

**Sample 4-year program:**

Do a standard Physics program (see *Bulletin*) with the following qualification: In addition take CHEM 110 and 230 and CSCI 161.

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COURSE CHECKLIST

**PHYSICS/DUAL DEGREE ENGINEERING**

**CORE CURRICULUM**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| UNIVERSITY CORE |  | CRS | TERM | GRADE |
|  |  |  |  |  |
| SSI1 |  |  |  |  |
|  |  |  |  |  |
| SSI2 |  |  |  |  |
|  |  |  |  |  |
| AR |  |  |  |  |
|  |  |  |  |  |
| HM |  |  |  |  |
|  |  |  |  |  |
| MA (MATH 180, 181) |  |  |  |  |
|  |  |  |  |  |
| NS (PHYS 121) |  |  |  |  |
|  |  |  |  |  |
| 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

**Upper Division Level Requirement**

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

**MAJOR REQUIREMENTS**

|  |  |  |  |
| --- | --- | --- | --- |
| COURSE | UNITS | TERM | GRADE |
|  |  |  |  |
| PHYS 121 |  |  |  |
|  |  |  |  |
| PHYS 122 |  |  |  |
|  |  |  |  |
| PHYS 221 |  |  |  |
|  |  |  |  |
| PHYS 305 |  |  |  |
|  |  |  |  |
| PHYS 351 |  |  |  |
|  |  |  |  |
| PHYS elective 1 (209 or higher) |  |  |  |
|  |  |  |  |
| PHYS elective 2 (209 or higher) |  |  |  |
|  |  |  |  |
| MATH 1801 |  |  |  |
|  |  |  |  |
| MATH 1811 |  |  |  |
|  |  |  |  |
| MATH 280 |  |  |  |
|  |  |  |  |
| MATH 290 |  |  |  |
|  |  |  |  |
| MATH 301 |  |  |  |
|  |  |  |  |
| CHEM 110 and 120 |  |  |  |
| OR |  |  |  |
| CHEM 1151 and 230 |  |  |  |
|  |  |  |  |
| CSCI 161 |  |  |  |
|  |  |  |  |

**Thank you for evaluating
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**NOTES**

1. Students with sufficient background and preparation in high school chemistry and calculus may test out of Chemistry 115 and/or Mathematics 180/181
2. Majors must maintain a minimum of 2.0 GPA in all courses for the major and prerequisite courses. A higher GPA is necessary for successful admission to the affiliate engineering programs.

 Degree is awarded upon completion of Baccalaureate in Engineering.

**THIS FORM IS**

**NOT AN**

**OFFICIAL GRADUATION ANALYSIS**

**KNOWledge, Identity, and Power Requirement**

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

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