# The University of Puget Sound <br> <br> 2017-2018 CURRICULUM GUIDE 

 <br> <br> 2017-2018 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 | 1 |
| MATH 180 (MA core) | 1 | MATH 181 | 1 |
| FL (if needed) or elective | 1 | FL (if needed) or elective | 1 |


| Sophomore |  |  | 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 ${ }^{1}$ | 1 | PHYS elective (209 or higher) | 1 |
| ${\text { PHYS } 351^{1}}^{1}$ | 1 | Elective | 1 |
| MATH 301 | 1 | CN core | 1 |
| Approaches core | 1 | Approaches core | 1 |

Puget Sound requires a total of $\mathbf{3 2}$ units to graduate

## NOTES:

1) MATH 301 is required (can be concurrent) for PHYS 305 and 351.

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 120 or 115 and 230 and CSCI 161.

CORE CURRICULUM

| UNIVERSITY CORE | CRS | TERM | GRADE |
| :--- | :--- | :--- | :--- |
| SSI 1 |  |  |  |
| SSI 2 |  |  |  |
| 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
AR=Artistic Approaches
HM= Humanistic 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

## Upper Division Level Requirement

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

## KNOWledge, Identity, and Power Requirement

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

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 181 ${ }^{1}$ |  |  |  |
| MATH 280 |  |  |  |
| MATH 290 |  |  |  |
| MATH 301² |  |  |  |
| CHEM 110 and 120 <br> OR <br> CHEM 115 and 230 |  |  |  |

## THIS FORM IS

NOT AN
OFFICIAL GRADUATION ANALYSIS

## NOTES

Before declaring a Physics major, students should schedule an appointment with the department chairperson, usually held no later than a student's fourth semester.

1) Students with sufficient background and preparation in high school chemistry and calculus may test out of Chemistry and/or Mathematics 180 or 181.
2) MATH 301 to be taken prior to, or concurrent with, PHYS 305, 351.

Majors must maintain a minimum of 2.0 GPA in all courses for both 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.

