THE UNIVERSITY OF PUGET SOUND

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**		**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
PHYS 351[1]	1	Elective	1
MATH 301	1	CN core*	1
Approaches core	1	Approaches core	1

Puget Sound requires a total of 32 units to graduate

NOTES:

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

*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 120 or 115 and 230 and CSCI 161.

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COURSE CHECKLIST

PHYSICS/DUAL DEGREE ENGINEERING

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
SSI2= Seminar in Scholarly Inquiry2
AR= Artistic Approaches
HM= Humanistic Approaches
MA= Mathematical 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 180[1]			
MATH 181[1]			
MATH 280			
MATH 290			
MATH 301[2]			
CHEM 110 and 120 OR CHEM 115[1] and 230			
CSCI 161			

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.