# THE UNIVERSITY OF PUGET SOUND

2018-2019 CURRICULUM GUIDE

**COMPUTER SCIENCE** 

**DEGREE: BS** 

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# A suggested four-year program:

# Fall Semester Classes

Spring Semester Classes

Freshman	Units		Units
SSI 1	1	SSI 2	1
CSCI 161 (MA core)	1	CSCI 261	1
Approaches core	1	Approaches core	1
FL (if needed) or elective	1	FL (if needed) or elective	1

Sophomore	Units		Units
CSCI 240	1	CSCI 291	1
CSCI 281	1	MATH 210 <sup>1, 2</sup>	1
Approaches core	1	Approaches core	1
Elective <sup>3</sup>	1	Elective	1

Junior	Units		Units
CSCI 361 <sup>2</sup>	1	CSCI 300-400 level	1
CSCI 300-400 level	1	Elective	1
Elective	1	Elective	1
Elective	1	Elective	1

Senior	Units	Units	
CN Core	1	CSCI 440	1
Elective	1	Elective	1
Elective	1	Elective	1
Elective	1	Elective	1

#### **NOTES:**

## Puget Sound requires a total of 32 units to graduate

- 1) Students majoring in Computer Science are encouraged to take MATH 210 in the first two years. In place of MATH 210, the department will also allow the following **two-course substitution**: MATH 290 **and** one 300+ course from MATH 300, 310, 335, 338, 420 (some topics as noted in topic course descriptions), 433, 434, 471.
- 2) MATH 210 and CSCI 361 can be taken earlier in the sequence if students desire.
- 3) Students are encouraged to take additional mathematics courses beyond MATH 210, e.g., AI (CSCI 431) requires MATH 180.

There are TWO options for the Computer Science major: the contract option and the standard option.

Contract option - Each contract will consist of: (1) Between eight and 16 units with no more than 10 units in computer science. (2) CSCI 161, 261, 361. (3) Completion of MATH 210. (4) At least five-upper-division (300-400 level) units in computer science. One unit may be from a field other than computer science provided the course has sufficient computer science content. Two units of proof-based or writing courses in computer science must be included. Contract must be finalized in consultation with the advisor and a departmental committee before the first contract upper-division course is completed.

**Standard option**: (1) Completion of CSCI 161, 261, 240. (2) Completion of MATH 210; CSCI 281, 291, 361. (3) At least two upper-division (300-400 level) units in computer science. (4) Completion of the Capstone CSCI 440.

# THE UNIVERSITY OF PUGET SOUND

COURSE CHECKLIST COMPUTER SCIENCE

#### **CORE CURRICULUM**

#### MAJOR REQUIREMENTS

UNIVERSITY CORE	CRS	TERM	GRADE	COURSE	UNITS	TERM	GRADE
SSI 1				MATH 210 <sup>1</sup>			
SSI 2				CSCI 161			
AR				CSCI 261			
HM				CSCI 240			
MA (CSCI 161, 261)				CSCI 281			
NS				CSCI 291			
SL				CSCI 361			
CN				Two upper-division electives (CSCI 300-400 level):			
<u>KEY</u>		1.					
SSI1= Seminar in Scholarly Inquiry1 MA= Mathematical Approaches			2.				

CSCI 440 (Capstone)

SSI1= Seminar in Scholarly Inquiry1 MA= Mathematical Approaches SSI2= Seminar in Scholarly Inquiry2 NS= Natural Scientific Approaches

AR= Artistic Approaches

HM= Humanistic Approaches

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SL= Social Scientific Approaches CN= Connections

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.

# THIS FORM IS NOT AN OFFICIAL GRADUATION ANALYSIS

# **NOTES**

Majors must maintain a minimum 2.0 GPA in all contract courses and in all upper-division major courses.

At least three units of upper-division contract courses must be completed at Puget Sound. One of these three units may be taken as part of a study-abroad program. For contract majors, this is subject to prior approval by the student's contract committee.

A grade of C- or better is required in all prerequisite courses in Math and Computer Science.

1) Students majoring in computer science are encouraged to take MATH 210 in the first two years, preferably concurrently with CSCI 281. In lieu of MATH 210, students may also take the following **two-course substitution**: MATH 290 **and** one course from List B: MATH 300, 310, 335, 338, 420 (some topics as noted in topic course descriptions), 433, 434, 471.