## The University of Puget Sound

2018-2019 CURRICULUM GUIDE
COMPUTER SCIENCE
DEGREE: BS
CONTACT PERSON: JAMES BERNHARD
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 2101,2 | 1 |
| Approaches core $^{\text {Elective }^{3}}$ | 1 | Approaches core | 1 |


| Junior | Units | Units |  |
| :--- | :---: | :--- | :---: |
| CSCI 361 ${ }^{2}$ | 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 $\mathbf{3 2}$ 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.

CORE CURRICULUM

| UNIVERSITY CORE | CRS | TERM | GRADE |
| :--- | :--- | :--- | :--- |
| SSI 1 |  |  |  |
| SSI 2 |  |  |  |
| AR |  |  |  |
| HM |  |  |  |
| MA (CSCI 161, 261) |  |  |  |
| NS |  |  |  |
| SL |  |  |  |
| CN |  |  |  |

## KEY

SSI1 = Seminar in Scholarly Inquiry1 MA= Mathematical Approaches SSI2 $=$ Seminar in Scholarly Inquiry2 NS= Natural Scientific Approaches
AR=Artistic Approaches
HM= Humanistic Approaches

SL= Social Scientific Approaches
CN= Connections
FL= Foreign Language

MAJOR REQUIREMENTS

| COURSE | UNITS | TERM | GRADE |
| :--- | :--- | :--- | :--- |
| MATH 210 |  |  |  |
| CSCI 161 |  |  |  |
| CSCI 261 |  |  |  |
| CSCI 240 |  |  |  |
| CSCI 281 |  |  |  |
| CSCI 291 |  |  |  |
| CSCI 361 |  |  |  |

Two upper-division electives (CSCI 300-400 level):

| 1. |  |  |  |
| :---: | :---: | :---: | :---: |
| 2. |  |  |  |
| CSCI 440 (Capstone) |  |  |  |

## THIS FORM IS NOT AN OFFICIAL

 GRADUATION ANALYSISForeign 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.

## 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.
