**THE UNIVERSITY OF PUGET SOUND**

2015-2016 CURRICULUM GUIDE

**MATHEMATICS**

DEGREE: BS

CONTACT PERSON: MICHAEL SPIVEY

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **A suggested four-year program:** | | |  |
| *Fall Semester Classes* |  | | *Spring Semester Classes* |  |
|  |  | |  |  |
| **Freshman** | **Units** | |  | **Units** |
|  |  | |  |  |
| SSI 1 |  | 1 | SSI 2 | 1 |
|  |  |  |  |  |
| MATH 180 (MA core) |  | 1 | MATH 181 | 1 |
|  |  |  |  |  |
| CSCI 161\* or Approaches Core |  | 1 | Approaches Core | 1 |
|  |  |  |  |  |
| FL (if needed) or elective |  | 1 | FL ( if needed) or elective | 1 |
|  |  |  |  |  |
|  |  | |  |  |
| **Sophomore** | **Units** | |  | **Units** |
|  |  | |  |  |
| MATH 280 |  | 1 | MATH 290 | 1 |
|  |  |  |  |  |
| CSCI 161\* or Approaches Core |  | 1 | Approaches core | 1 |
|  |  |  |  |  |
| Elective |  | 1 | Elective | 1 |
|  |  |  |  |  |
| Elective |  | 1 | Elective | 1 |
|  |  |  |  |  |
|  |  | |  |  |
| **Junior** | **Units** | |  | **Units** |
|  |  | |  |  |
| MATH 300-400 level (see below) |  | 1 | MATH 300-400 level (see below) | 1 |
|  |  |  |  |  |
| Elective |  | 1 | MATH 300-400 level (see below) | 1 |
|  |  |  |  |  |
| Elective |  | 1 | Elective | 1 |
|  |  |  |  |  |
| Elective |  | 1 | Elective | 1 |
|  |  |  |  |  |
|  |  | |  |  |
| **Senior** | **Units** | |  | **Units** |
|  |  | |  |  |
| MATH 300-400 level (see below) |  | 1 | MATH 300-400 level (see below) | 1 |
|  |  |  |  |  |
| Elective |  | 1 | Elective | 1 |
|  |  |  |  |  |
| CN core # |  | 1 | Elective | 1 |
|  |  |  |  |  |
| Elective |  | 1 | Elective | 1 |
|  |  |  | **Puget Sound requires a total of 32 units to graduate.** |  |
|  |  |  |  |  |

**NOTES:**

There are two options for the Mathematics major: the contract option and the standard option.

**Contract option**: Each contract will consist of: (1) Between 8 and 16 units with no more than 9 units in mathematics. (2) CSCI 161 or equivalent. (3) Atleast five-upper-division (300-400 level) units in mathematics or mathematics substitute courses to include (a) two units of related upper-division courses and

(b) one upper-division unit in a proof-based course. Contract must be finalized in consultation with the advisor and a departmental committee before the first contract upper-division course is completed. The contract will normally include 180/181/ 280/290.

**Standard option**: (1) Completion of 180/181/ 280/290. (2) CSCI 161. (3) At least five upper-division (300-400 level) units in mathematics to include (a) twounits of related upper-division courses; (b) one upper-division unit in a proof-based course; and (c) at least one upper-division unit from each of the following lists: (A) MATH 301, 302, 321, 322, 352, 360, 375, 376, 420 (some topics as noted in topic course descriptions); and (B) MATH 300, 310, 335, 338, 420 (some topics as noted in topic course descriptions), 433, 434, 471.

\* Students majoring in mathematics should take CSCI 161 in their first two years.

# 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.

**THE UNIVERSITY OF PUGET SOUND**

COURSE CHECKLIST

**MATHEMATICS**

**CORE CURRICULUM** **MAJOR REQUIREMENTS**

|  |  |
| --- | --- |
| UNIVERSITY CORE | CRS TERM GRADE |

SSI1

SSI2

AR

HM

MA (CSCI 161, MATH 180, 181, 280)

NS (if PHYS 121/122 not 111/112)

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.

**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 major courses and in all upper-division (300-400 level) courses. At least four units of upper-division courses must be completed at Puget Sound (for contract majors, one of these four units may be taken as part of a study abroad program, 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.

* Contract majors must include among the five upper division units: two units of related upper division courses and one upper division proof-based course (approval required before courses are attempted)

\* Standard option majors must include among the five upper division units: two units of related upper division courses, one upper division proof course, and one unite in each in continuous and discrete mathematics (List A and List B) (some classes may meet more than one requirement above).

**List A**: MATH 301, 302, 321, 322, 352, 360, 375, 376, 420 (some topics as noted in topic course descriptions)

**List B**: MATH 300, 310, 335, 338, 420 (some topics as noted in topic course descriptions), 433, 434, 471

|  |  |  |  |
| --- | --- | --- | --- |
| COURSE | UNITS | TERM | GRADE |
|  |  |  |  |
| MATH 180 |  |  |  |
|  |  |  |  |
| MATH 181 |  |  |  |
|  |  |  |  |
| MATH 280 |  |  |  |
|  |  |  |  |
| MATH 290 |  |  |  |
|  |  |  |  |
| CSCI 161 |  |  |  |
|  |  |  |  |
| MATH 300-400 level:\* |  |  |  |
|  |  |  |  |
| 1. |  |  |  |
|  |  |  |  |
| 2. |  |  |  |
|  |  |  |  |
| 3. |  |  |  |
|  |  |  |  |
| 4. |  |  |  |
|  |  |  |  |
| 5. |  |  |  |
|  |  |  |  |

**THIS FORM IS**

**NOT AN**

**OFFICIAL GRADUATION ANALYSIS**