

# Department of Computer Science Computer Science Program

<http://pdx.edu/computer-science/programs>

## Possible 4 Year Course Plan

FRESHMAN			SOPHOMORE			JUNIOR			SENIOR																							
FALL	WINTER	SPRING	FALL	WINTER	SPRING	FALL	WINTER	SPRING	FALL	WINTER	SPRING																					
<b>Non-CS Course Requirements</b>																																
CALCULUS MTH 251   MTH 252   MTH 253 OR 261			A   A   A APPROVED SCIENCE w/LAB			TECH WRITE WR 227			E   E   B MATH ELEC   MATH ELEC   SCI ELEC																							
			LAB   LAB   LAB																													
<b>Engineering / Computer Science Requirements</b>																																
INTRO TO CS CS 162			DATA STRUC CS 163			PROG SYS CS 202			COMP SYS PROG CS 201			DISC STRUC I CS 250			DISC STRUC II CS 251			SOFT ENGR CS 300			PROG LANG CS 320			C CS UD ELEC*			C CS UD ELEC			C CS UD ELEC		
									INTRO OP SYS CS 333			ALGOR COMP CS 350			ETHICS CS 305 DATA BASE CS 486			SOFT CAP CS 469			SOFT CAP CS 470			C CS UD ELEC								
															COMP HRDWR ECE 341			C CS UD ELEC														
<b>General Education Requirements</b>																																
D   D   D FREE ELEC									D FREE ELEC																							
FRESHMAN INQUIRY ** UNST 1X1   UNST 1X2   UNST 1X3			SOPHOMORE INQUIRY UNST 2XX   UNST 2XX   UNST 2XX			UNST UP DIV CLUST			UNST UP DIV CLUST			UNST UP DIV CLUST			D FREE ELEC																	

### EXPLANATION

**CREDIT HOURS**

- 1 A - APPROVED LAB SCIENCE
- 2 B - APPROVED SCIENCE ELECTIVE
- 3 C - CS ELECTIVE\*
- 4 D - FREE ELECTIVE
- E - APPROVED MATH ELECTIVE

CS 469 & CS 470 FULFILL UNST CAPSTONE

**\* Programming intensive CS elective**  
**\*\*Transfer students with 30 or more credits must complete WR 121 and COMM 220 instead of FRINQ.**

SHADED AREA= CORE ADMISSION REQUIREMENTS

2018-2019



# Computer Science

## University General Education Requirements

- A. Freshmen entering with 29 or fewer prior university/college credits must complete all University Studies requirements, including freshman and sophomore inquiry sequences and upper division cluster courses.
- B. Continuing and transfer students with 30-59 prior university/college credits must complete the following program:
  - University Studies beginning with Sophomore Inquiry
- C. Continuing and transfer students with 60-89 prior university/college credits must complete the following program:
  - Sophomore Inquiry: 60-74 credits, two courses; 75-89 credits, one course
  - The upper division cluster must be linked with one of these Sophomore Inquiry courses.
- D. Continuing and transfer students with 90 or more prior university/college credits must complete the following program:
  - University Studies requirements beginning with upper division cluster courses. It is strongly recommended that students also take the single Sophomore Inquiry course that is linked to the chosen upper division cluster.
- E. Transfer students must have a minimum of 39 credits of University Studies courses and/or arts and letters/social science courses at their previous college(s) or at PSU prior to graduation; 12 of these credits are upper division cluster courses that must be taken at PSU. **Students should consult with an adviser for more information.**

## Computer Science Department Requirements

- a) Transfer students who have not taken Freshman Inquiry must have completed Comm 220 and Wr 121 as part of the 39 credits of arts and letters/social sciences.
- b) Approved Lab Science: One of the following 15 credit *sequences*, including their associated laboratories: Ph 211, 212, 213 with 214, 215, 216 (General Physics w/Calculus and Lab); Ch 221, 222, 223 with Ch 227, 228, 229 (General Chemistry and Lab); or Bi 211, 212, 213; or Bi 251, 252, and 253. (Principles of Biology with integrated Lab).
- c) Approved Science Electives: Four credits chosen from Biology, Chemistry, Physics, Geology, or Environmental Science. *At least 19 Approved Lab Science/Approved Science Electives credits must be taken.*
- d) Approved Upper-Division CS Electives: 24 credits of any regular upper-division computer science course or ECE 455, 456, 485, 486. One of these electives must be a programming intensive course. No more than 4 credits from CS 399, 401, 405, 406, 407, and 409. CS 404 and courses specifically described as not being applicable to the CS degree may not be used. *44 of the required 52 upper division CS credits must be taken at PSU after admission to the CS Upper Division Program.*
- e) Approved Math Electives: Seven credits, selected from Mth261 or MTH253, MTH 311, Mth343, Mth344, Mth346, Mth356, Mth457, Mth458, Mth461, Mth462, Stat366, Stat 451, Stat452, Stat467 and Stat468. Other upper-division mathematics courses may be used to satisfy the requirement with prior written adviser approval.

**Students should consult with an adviser for more information.**

