

Washington State University Vancouver School of Engineering and Computer Science  
 Bachelor of Science in Computer Science

Computer Science Four-Year Plan

First Year		Sophomore		Junior		Senior	
Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
[QUAN] Calculus 1 Math 171 *	Calculus II Math 172 *	[PSCI] Phys for Sci/Engr PHYS 201 +211 *	Physics for Scientist/Engr. PHYS 202 +212	Systems Programming CS 360	Fund. Of Software Eng. CS 320 [M]	[CAPS] Soft. Des. Proj. I CS 420	Software Design Project II CS 421
	Discrete Mathematics CS 166 *	Advanced Data Structures CS 223	Programming Tools CS 224	Automata & Formal Lang. CS 317	Intro to Database Systems CS 351	Design & Analysis of Algorithms CS 450	Social & Prof. Issues in CS CS 402 [M]
Program Design & Development CS 121 *	Data Structures CS 122 *	Computer Organization CS 260	C and Assembly Lang. Prog. CS 261	CS Option Course	Programming Lang. Design CS 355	CS Option Course	Operating Systems CS 460
		Calculus III Math 273 (2) or Intro to Math. Reasoning Math 301 (3)	Linear Algebra Math 220	Probability & Statistics Stat 360	CS Option Course	CS Option Course	CS Option Course
UCORE [HUM] Humanities	UCORE [WRTG] ENGL 101			<i>Complete Writing Portfolio (No credit)</i>			CS Option Course
UCORE [ROOT] History 105		UCORE [SSCI] EconS 101/102	UCORE [BSCI] Biological Science w/Lab		[WRTG] Tech. Prof. Writing English 402	UCORE [DIVR] Diversity	UCORE [ARTS] Creat. & Prof. Arts
14	14	15 or 16	16	16	15	15	15

Students are admitted to the major when they are MATH 171 ready.

Credits
1
2
3

**\* = Required with a full "C" or better to remain in the major. All CS courses & prerequisites must also be "C" grade or better.**

Shaded lower division courses are required for subsequent coursework (see catalog descriptions)

CS requirements effective Fall 2021

**Option Courses:** Eighteen semester hours of option area courses are required. **One Security Option must be completed from a choice of CS 425, 426, or 427.** The remaining option courses are chosen from upper-division CS and related courses and must be approved by the department.

CS 260/CS 261 sequence may be satisfied with ECE 214 & ECE 234  
 For details on admission to the major in CS, see Catalog or contact an ENCS Academic Coordinator.