Prerequisites for Computer Science and Software Systems Programs

All information is subject to change without notice. See an advisor for assistance and *always verify program requirements with your intended 4-year institution.*

All courses indicated with "X" are required, unless otherwise indicated differently in the note section.

University	ENGL &101	MATH &151	MATH &152	MATH &163	CSC 110*	CSC 142	CSC 143	Lab Sci	See note
Central Washington University <u>Des Moines</u> *-BS in Computer Science*	X	X			X	X	X		A
Central Washington University <u>Ellensburg</u> *-BS in Computer Science*	X^1	X^1			X	X^1	X^1		B
Eastern Washington University *-BS in Computer Science (BSCS)* *-Bachelor of Computer Science (BCS)*					X	X	X		C
Seattle Pacific University *-BS in Computer Science*		X	X	X	X	X	X	X	D
Seattle Pacific University *-BA in Computer Science* *-BS in Information Systems*		X^2			X	X	X		
Seattle University *-BS in Computer Science*	X	X	X	X	X	X	X	X	E
UW Bothell *-BS in Computer Science & Software Engineering*	X	X	X		X	X	X		F
UW Bothell *-BA in Applied Computing*	X	X			X	X	X		
UW Seattle *-BS in Computer Science*	X	X	X	X	X	X	X	X	G
UW Seattle *-BS in Informatics*					X	X^3			H
UW Tacoma *-BS in Computer Science and Systems*		X	X		X	X	X	X	
UW Tacoma *-BA in Computer Science and Systems*		X			X	X	X		I
UW Tacoma *-BS in Information Technology*					X	X			

University	ENGL &101	MATH &151	MATH &152	MATH &163	CSC 110*	CSC 142	CSC 143	Lab Sci	See note
Washington State University <u>Pullman</u> *-BS in Computer Science*	X		X	X	X	X	X	X	
Washington State University <u>Pullman</u> *-BS in Software Engineering*	X		X	X	X	X	X	X	J
Washington State University <u>Everett</u> *-BS in Software Engineering*	X	X	X	X	X	X	X	X	K
Western Washington University *-BS in Computer Science*		X	X		X	X	X	X	L
College	**ENGL &101**	**MATH &151**	**MATH &152**	**MATH &163**	**CSC 110***	**CSC 142**	**CSC 143**	**Lab Sci**	**See note**
Bellevue College *-BS in Computer Science*	X	X	X		X	X	X	X	M
North Seattle College *-BS in Computer Science*	X				X	X	X		
North Seattle College *-BAS in Application Development*	**Prerequisites:** • ENGL&101 • QSR – college level math (5cr): Statistics (MATH&146, MATH211, or BUS210) or Pre-Calculus (MATH&141) recommended • CSC110 • CSC142 • T125 • IT135 • IT 102 or IT161								N

*CSC 110 is a prerequisite to CSC 142 at NSC; it is not an admissions requirement, except for the BS in Computer Science and the Application Development BAS program at NSC.

• Each school likely has minimum grade requirements in their pre-requisites. In addition, each school likely has additional admission requirements. Please check their website for details.
• For other WA 4-year institutions that offer Computer Science or Computer related majors, please go to wa.cis360.org.

Note	University/College	Notes
A	Central Washington University <u>Des Moines</u> -*BS in Computer Science*	• Complete ENGL&102. • A grade of 2.0 or higher in all prerequisite courses is required. • Highly recommended to complete AA-DTA, AS-DTA, or Associate in Computer Science MRP/DTA degree.
B	Central Washington University <u>Ellensburg</u> -*BS in Computer Science*	• The major doesn't have required pre-admission courses. However, until students have earned 2.0 or higher in X^1 courses, ENGL&102, and Data Structures (not offered at NSC), students cannot take most of the upper division courses at CWU. • Complete Data Structures in the first quarter at CWU. This course is typically offered in Fall, Winter, and Spring quarters at CWU.
C	Eastern Washington University -*BS in Computer Science* -*Bachelor of Computer Science (BCS)*	• Although CSC142 and CSC143 are not required for admission to the major, these are beneficial to take before transferring. • Students will need to take MATH301 (Discrete Math) after transferring to EWU, which requires MATH&142. • Students will need to pass "Advancement Programming Exam (APE)," which will restart in Win'23, at EWU before taking some upper division courses. • The BCS major is mainly software focused. • Consult with EWU about BS in Computer Science Cyber Operations and BS in Cyber Operations.
D	Seattle Pacific University -*BS in Computer Science* -*BA in Computer Science* -*BS in Information Systems*	• Recommended to complete all courses indicated with X. • Highly recommended to complete AA-DTA, AS-DTA, or Associate of CSC MRP/DTA degree. • For BS in Computer Science only: PHYS&221, 222, 223, MATH220, and MATH&146 are also recommended. • X^2 - For BA in Computer Science and BS in Information Systems only: SPU accepts either MATH&148 or MATH&151. MATH&146 is also recommended.
E	Seattle University -*BS in Computer Science*	• Complete PHYS&221 and 10 additional credits from the following; PHYS &222, &223, CHEM &161, &162, &163, BIOL&211, &212, &213, or BIOL290. • MATH 220 (linear algebra) is recommended. • Complete a transfer associate degree. • A Creative Expression and Interpretation course (UCOR1300) is required for graduation from the program. To check which courses would transfer to SU as their UCOR1300, go to SU's equivalency guide: https://www.seattleu.edu/registrar/transfer-tools/ • BS Comp Sci (CS)–<u>Math specialization</u> requires all the pre-requisites for BS CS, except the 10 additional credits of lab science. Instead, MATH220, 224, and 238 are recommended. Please consult with the department for details. • BS CS–<u>Business specialization</u> requires all the pre-requisites for BS CS, except the 10 additional credits of lab science. Instead, MATH&146 or BUS210, and ECON&201 are recommended. Please consult with the department for details.
F	UW Bothell -*BS in Computer Science & Software Engineering and* -*BA in Applied Computing*	• All the pre-requisites must be completed prior to applying to the major. • Complete ENGL &102 (composition 2) or ENGL&235 (technical writing). • BA in Applied Computing only: A minor is built into this major. • If English is not your first language: The major's English language proficiency requirements may differ from those for general admission to UWB.
G	UW Seattle -*BS in Computer Science*	• All the pre-requisites must be completed prior to applying to the major. • Complete PHYS&221 or CHEM&161. If you want to take BIOL&211, consult with the department. • MATH 220 (linear algebra) is recommended.
H	UW Seattle -*BS in Informatics*	• All the pre-requisites must be completed prior to applying to the major. • X^3 - Complete either CSC142 or CSC143. • Complete MATH211, BUS210, or MATH&146, and 5 credits of Individuals, Cultures, & Societies (ICS) course. Choose an ICS course that transfers to UW as their I&S course. • Complete INFO 200 at UW Seattle before the end of the first year in the major.
I	UW Tacoma -*BS in Computer Science and Systems*	• All the pre-requisites must be completed prior to applying to the major within the last 7 years. • Recommended to pursue AS-DTA, AS-2, or Associate in CSC MRP/DTA degree.

	-BA in Computer Science and Systems *-BS in Information Technology*	• For BS in Computer Science and Systems only: Complete at least 5 credits of any lab-based science **EXCEPT** Astronomy. A total of 10 to 15 credits of lab-based science is recommended. • For BA in Computer Science and Systems only: Complete MATH&146, 211, or BUS210. A minor is built into the major. • For BS in Information Technology only: Complete both MATH&141 and MATH&142. MATH&146, 211, or BUS210 is recommended.

J	Washington State University <u>Pullman</u>
	-BS in Computer Science
	-BS in Software Engineering
		• Courses indicate with X can be taken at NSC for this major.
		• Additional courses that can be taken at NSC for BS in Computer Science are:
		   PHYS&221, PHYS&222, PHYS&223
		   MATH224
		   MATH238
		• Additional courses that can be taken at NSC for BS in Software Engineering are:
		   Two out of PHYS&221, &222, &223, or both CHEM&161 AND CHEM&162
		   MATH&146 or 211
		• Additional courses that can be taken at NSC for both majors are:
		   MATH220
		   PHIL&120
		   ECON&201 or ECON&202 (recommended)
		   HIST&128 (recommended)
		• WSU Pullman campus is planning to offer a Cyber Security Degree starting Fall'23. Until the degree's requirements get finalized, take courses recommended for the BS in Computer Science.

K	Washington State University <u>Everett</u>
	-BS in Software Engineering
		• Complete:
		   Two out of PHYS&221, &222, &223
		   MATH220
		   Two of the following – MATH224, MATH&146 or MATH211, PHIL&120
		   ECON&201 or ECON&202
		• Recommended to pursue AS-DTA, AS-2, or Associate of CSC MRP/DTA degree.
		• Two additional courses are recommended:
		WSU Cpts223 or 233 and WSU Cpts260. NSC doesn't offer these courses.

L	Western Washington University
	-BS in Computer Science
		• There is no direct admission to the major. Students are eligible to apply to the major when they have completed CSCI 241, 247, and 301 at WWU.
		• Courses indicated with X are recommended.
		• MATH220 is also recommended. MATH220 requires MATH&163 at NSC.
		• Recommended to completed one of the following sequences:
		   PHYS&221, 222, 223
		   CHEM&161, 162, 163
		   BIOL&211, 212, 213

M	Bellevue College *-BS in Computer Science*	• Complete either PHYS&221, CHEM&161, BIOL&160, or BIOL&211.

N	North Seattle College
	-BS in Computer Science
	-BAS in Application Development
		• Complete an associate degree (or equivalent credits) with a minimum cumulative 2.5 GPA or higher.
		• BS in Computer Science:
		   Complete MATH&141 AND MATH&146 (preferred), MATH211 (preferred), or BUS210. A 2.5 GPA or higher in all prerequisite courses is required.
		• BAS in Application Development:
		   A 2.5 or higher in all IT courses is required.
		• For more information about these programs, contact Michelle Melero, the Director of these programs, at <u>Michelle.Melero@seattlecolleges.edu</u>.

01/08/2024, CM