

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 -BS in Computer Science	X ¹	X ¹			X	X ¹	X ¹		A
Eastern Washington University -BS in Computer Science (BSCS) -Bachelor of Computer Science (BCS)					X	X	X		B
Seattle Pacific University -BS in Computer Science		X	X	X	X	X	X	X ²	C
Seattle Pacific University -BA in Computer Science -BS in Information Systems		X ³			X	X	X		
Seattle University -BS in Computer Science	X	X	X	X	X	X	X	X ⁴	D
UW Bothell -BS in Computer Science & Software Engineering	X	X	X		X	X	X		E
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 ⁵	F
UW Seattle -BS in Informatics	X				X	X			G
UW Tacoma -BS in Computer Science and Systems		X	X		X	X	X	X ⁶	H
UW Tacoma -BA in Computer Science and Systems		X			X	X	X	X ⁷	I
UW Tacoma -BS in Information Technology					X	X			J

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	K
Washington State University <u>Pullman</u> -BA in Computer Science	X		X	X	X	X	X	X ⁸	L
Washington State University <u>Pullman</u> -BS in Software Engineering	X		X	X	X	X	X	X	M
Washington State University <u>Everett</u> -BS in Software Engineering	X		X	X	X	X	X	X ⁹	N
Western Washington University -BS in Computer Science		X	X		X	X	X	X ¹⁰	O
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 ¹¹	P
North Seattle College -BAS in Application Development Program	Prerequisites: Communication Skills (5cr): ENGL&101 QSR – college level math (5cr): Statistics (MATH&146 or BUS210) or Pre-Calculus (MATH&141) recommended Programming (10cr): CSC110 and CSC142 Database Development/Programing in SQL (5cr): IT125 Web Programming/Development (5cr): IT 102 (preferred) or IT161 (Web Authoring 1) ^ ^If you already completed the old IT111 (Internet and Web Authoring), you don't have to take IT102 or IT161. The new IT111 (Programming Fundamentals) does NOT satisfy this requirement.								Q

*CSC 110 is a prerequisite to CSC 142 at NSC; it is not an admissions requirement, except for Application Development BAS program at North Seattle College.

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 www.wois.org.

5/13/2021, RT

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Note	University/College	Notes
A	Central Washington University -BS in Computer Science	<ul style="list-style-type: none"> • The major doesn't have required pre-admission courses. However, until students have earned 2.0 or higher in X¹ 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.
B	Eastern Washington University -BS in Computer Science -Bachelor of Computer Science (BCS)	<ul style="list-style-type: none"> • Although CSC142 and CSC143 are not required for admission to the major, these are beneficial to take before transferring. • You will need to take MATH301 (Discrete Math) after you transfer to EWU, which requires MATH&142. • For BCS only: The major focuses on software only with another discipline of a minor. Consult with the department for minor options.
C	Seattle Pacific University -BS/BA in Computer Science -BS in Information Systems	<ul style="list-style-type: none"> • Recommended to complete all courses indicated with X. • Highly recommended to complete AA-DTA or AS-DTA degree. • X² - For BS in Computer Science only: PHYS&221, 222, 223, and MATH&146 are also recommended. • X³ - For BA in Computer Science and BS in Information Systems only: SPU accepts either MATH&148 or MATH&151. MATH&146 is also recommended. • SPU offers CSC2330 (Data Structures and Programming) typically in Fall quarter for transfer students who completed 2 quarters of Java or a computer language other than C++.
D	Seattle University -BS in Computer Science	<ul style="list-style-type: none"> • X⁴ - 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, or ECON&201 is recommended. Please consult with the department for details.
E	UW Bothell -BS in Computer Science & Software Engineering and -BA in Applied Computing	<ul style="list-style-type: none"> • All the pre-requisites must be completed prior to applying to the major. • Complete ENGL &102 (composition 2) or ENGL&235 (technical writing). • MATH&146 (introduction to statistics), MATH211 (elements of statistical methods), or BUS210 (business and economic statistics) is a soft prerequisite and can be in progress or completed after being admitted to the major. • BA in Applied Computing only: A minor is built into this major. Consult with the department to discuss your minor and what courses to take to prepare for your minor. • If English is not your first language: The major's English language proficiency requirements may differ from those for general admission to UWB. Consult with UWB.
F	UW Seattle -BS in Computer Science	<ul style="list-style-type: none"> • X⁵ - Complete at least 5 credits of natural science including one of the following: PHYS&221, CHEM&161, or any approved science course that requires PHYS&221 or CHEM&161 as a pre-requisite. If you want to take BIOL&211, consult with the department. • UW Seattle CSC programs' approved science courses: https://www.cs.washington.edu/academics/ugrad/current-students/degree/courses/natural-science
G	UW Seattle -BS in Informatics	<ul style="list-style-type: none"> • All the pre-requisites must be completed prior to applying to the major. • Complete MATH211 (preferred), BUS210 (preferred), 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.

H	UW Tacoma -BS in Computer Science and Systems	<ul style="list-style-type: none"> •X⁶ - 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.
I	UW Tacoma -BA in Computer Science and Systems	<ul style="list-style-type: none"> •X⁷ – Complete 5 credits of any lab-based science. •Complete MATH&146, 211, or BUS210.
J	UW Tacoma -BS in Information Technology	<ul style="list-style-type: none"> •Complete both MATH&141 and MATH&142. •MATH&146, 211, or BUS210 is recommended.
K	Washington State University <u>Pullman</u> -BS in Computer Science	<ul style="list-style-type: none"> •Courses indicate with X can be taken at NSC for this major. •Additional courses that can be taken at NSC for this major are: PHYS&221, PHYS&222, PHYS&223 MATH220, MATH224 PHIL&120 ECON&201 or ECON&202 (recommended) HIST&128 (recommended) •The major requires Discrete Structures and Advanced Data Structures, which are not offered at NSC. Complete these courses in the first semester at WSU.
L	Washington State University <u>Pullman</u> -BA in Computer Science	<ul style="list-style-type: none"> •Courses indicate with X can be taken at NSC for this major. •Additional courses that can be taken at NSC for this major are: MATH220 MATH&146 or 211 PHIL&120 HIST&128 (recommended) •X⁸ – Look at WSU's catalog for science course options for this major: https://catalog.wsu.edu/Pullman/Academics/DegreeProgram/10315 •The major requires Discrete Structure and Advanced Data Structures, which are not offered at NSC. Complete these courses in the first semester at WSU.
M	Washington State University <u>Pullman</u> -BS in Software Engineering	<ul style="list-style-type: none"> •Courses indicate with X can be taken at NSC for this major. •Additional courses that can be taken at NSC for this major are: PHYS&221 and PHYS&223*, or CHEM&161 and CHEM&162 MATH220 ECON&201 or ECON&202 HIST&128 (recommended) *At NSC, PHYS&223 requires PHYS&222 and MATH&152. •The major requires Discrete Structures and Advanced Data Structures, which are not offered at NSC. Complete these courses the first semester at WSU.
N	Washington State University <u>Everett</u> -BS in Software Engineering	<ul style="list-style-type: none"> •X⁹ – Complete PHYS&221 and PHYS&223*, or CHEM&161 and CHEM&162 *At NSC, PHYS&223 requires PHYS&222 and MATH&152. •Complete: ECON&201 or ECON&202 MATH220 Two of the following – MATH224, MATH&146 or MATH211, PHIL&120 •Recommended to complete AS-DTA or AS-2 degree. •Two additional courses are recommended: WSU Cpts223 or 223 and WSU Cpts260. NSC doesn't offer these courses.
O	Western Washington University -BS in Computer Science	<ul style="list-style-type: none"> •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. •X¹⁰ – Recommended to completed one of the following sequences: PHYS&221, 222, 223 CHEM&161, 162, 163 BIOL&211, 212, 213
P	Bellevue College -BS in Computer Science	<ul style="list-style-type: none"> •X¹¹ - Complete either PHYS&221, CHEM&161, BIOL&160, or BIOL&211.
Q	North Seattle College -BAS in Application Development Program	<ul style="list-style-type: none"> •Complete an associate degree with a minimum cumulative 2.5 or higher, and a 2.5 GPA or higher in all IT courses. •For more information about the program, contact Michelle Melero, the program coordinator, at Michelle.Melero@seattlecolleges.edu.