



# 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 <sup>1</sup>	X <sup>1</sup>			X	X <sup>1</sup>	X <sup>1</sup>		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 <sup>2</sup>	C
Seattle Pacific University -BA in Computer Science -BS in Information Systems		X <sup>3</sup>			X	X	X		
Seattle University -BS in Computer Science	X	X	X	X	X	X	X	X <sup>4</sup>	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 <sup>5</sup>	F
UW Seattle -BS in Informatics	X				X	X			G
UW Tacoma -BS in Computer Science and Systems		X	X		X	X	X	X <sup>6</sup>	H
UW Tacoma -BA in Computer Science and Systems		X			X	X	X	X <sup>7</sup>	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 <sup>8</sup>	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 <sup>9</sup>	N
Western Washington University -BS in Computer Science		X	X		X	X	X	X <sup>10</sup>	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 <sup>11</sup>	P
North Seattle College -BAS in Application Development Program	<b>Prerequisites:</b> Communication Skills (5cr): <b>ENGL&amp;101</b> QSR – college level math (5cr): <b>Statistics (MATH&amp;146 or BUS210) or Pre-Calculus (MATH&amp;141) recommended</b> Programming (10cr): <b>CSC110 and CSC142</b> Database Development/Programing in SQL (5cr): <b>IT125</b> Web Programming/Development (5cr): <b>IT 102 (preferred) or IT161 (Web Authoring 1) ^</b> ^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 <b>NOT</b> 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](http://www.wois.org).

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Note	University/College	Notes
A	Central Washington University -BS in Computer Science	<ul style="list-style-type: none"> <li>•The major doesn't have required pre-admission courses. However, until students have earned 2.0 or higher in X<sup>1</sup> courses, ENGL&amp;102, and Data Structures (not offered at NSC), students cannot take most of the upper division courses at CWU.</li> <li>•Complete Data Structures in the first quarter at CWU. This course is typically offered in Fall, Winter, and Spring quarters at CWU.</li> </ul>
B	Eastern Washington University -BS in Computer Science -Bachelor of Computer Science (BCS)	<ul style="list-style-type: none"> <li>•Although CSC142 and CSC143 are not required for admission to the major, these are beneficial to take before transferring.</li> <li>•You will need to take MATH301 (Discrete Math) after you transfer to EWU, which requires MATH&amp;142.</li> <li>•For BCS only: The major focuses on software only with another discipline of a minor. Consult with the department for minor options.</li> </ul>
C	Seattle Pacific University -BS/BA in Computer Science -BS in Information Systems	<ul style="list-style-type: none"> <li>•Recommended to complete all courses indicated with X.</li> <li>•Highly recommended to complete AA-DTA or AS-DTA degree.</li> <li>•X<sup>2</sup> - For BS in Computer Science only: PHYS&amp;221, 222, 223, and MATH&amp;146 are also recommended.</li> <li>•X<sup>3</sup> - For BA in Computer Science and BS in Information Systems only: SPU accepts either MATH&amp;148 or MATH&amp;151. MATH&amp;146 is also recommended.</li> <li>•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++.</li> </ul>
D	Seattle University -BS in Computer Science	<ul style="list-style-type: none"> <li>•X<sup>4</sup> - Complete PHYS&amp;221 and 10 additional credits from the following: PHYS &amp;222, &amp;223, CHEM &amp;161, &amp;162, &amp;163, BIOL&amp;211, &amp;212, &amp;213, or BIOL290.</li> <li>•MATH 220 (linear algebra) is recommended.</li> <li>•Complete a transfer associate degree.</li> <li>•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: <a href="https://www.seattleu.edu/registrar/transfer-tools/">https://www.seattleu.edu/registrar/transfer-tools/</a></li> <li>•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.</li> <li>•BS CS-<u>Business specialization</u> requires all the pre-requisites for BS CS, except the 10 additional credits of lab science. Instead, MATH&amp;146 or BUS210, or ECON&amp;201 is recommended. Please consult with the department for details.</li> </ul>
E	UW Bothell -BS in Computer Science & Software Engineering and -BA in Applied Computing	<ul style="list-style-type: none"> <li>•All the pre-requisites must be completed prior to applying to the major.</li> <li>•Complete ENGL &amp;102 (composition 2) or ENGL&amp;235 (technical writing).</li> <li>•MATH&amp;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.</li> <li>•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.</li> <li>•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.</li> </ul>
F	UW Seattle -BS in Computer Science	<ul style="list-style-type: none"> <li>•All the pre-requisites must be completed prior to applying to the major.</li> <li>•X<sup>5</sup> - Complete at least 5 credits of natural science including one of the following: PHYS&amp;221, CHEM&amp;161, or any approved science course that requires PHYS&amp;221 or CHEM&amp;161 as a pre-requisite. If you want to take BIOL&amp;211, consult with the department.</li> <li>•UW Seattle CSC programs' approved science courses: <a href="https://www.cs.washington.edu/academics/ugrad/current-students/degree/courses/natural-science">https://www.cs.washington.edu/academics/ugrad/current-students/degree/courses/natural-science</a></li> </ul>
G	UW Seattle -BS in Informatics	<ul style="list-style-type: none"> <li>•All the pre-requisites must be completed prior to applying to the major.</li> <li>•Complete MATH211 (preferred), BUS210 (preferred), or MATH&amp;146, and 5 credits of Individuals, Cultures, &amp; Societies (ICS) course. Choose an ICS course that transfers to UW as their I&amp;S course.</li> <li>•Complete INFO 200 at UW Seattle before the end of the first year in the major.</li> </ul>

H	UW Tacoma -BS in Computer Science and Systems	<ul style="list-style-type: none"> <li>•X<sup>6</sup> - Complete at least 5 credits of any lab-based science <b>EXCEPT</b> Astronomy. A total of 10 to 15 credits of lab-based science is recommended.</li> </ul>
I	UW Tacoma -BA in Computer Science and Systems	<ul style="list-style-type: none"> <li>•X<sup>7</sup> - Complete 5 credits of any lab-based science.</li> <li>•Complete MATH&amp;146, 211, or BUS210.</li> </ul>
J	UW Tacoma -BS in Information Technology	<ul style="list-style-type: none"> <li>•Complete both MATH&amp;141 and MATH&amp;142.</li> <li>•MATH&amp;146, 211, or BUS210 is recommended.</li> </ul>
K	Washington State University <u>Pullman</u> -BS in Computer Science	<ul style="list-style-type: none"> <li>•Courses indicate with X can be taken at NSC for this major.</li> <li>•Additional courses that can be taken at NSC for this major are: PHYS&amp;221, PHYS&amp;222, PHYS&amp;223 MATH220, MATH224 PHIL&amp;120 ECON&amp;201 or ECON&amp;202 (recommended) HIST&amp;128 (recommended)</li> <li>•The major requires Discrete Structures and Advanced Data Structures, which are not offered at NSC. Complete these courses in the first semester at WSU.</li> </ul>
L	Washington State University <u>Pullman</u> -BA in Computer Science	<ul style="list-style-type: none"> <li>•Courses indicate with X can be taken at NSC for this major.</li> <li>•Additional courses that can be taken at NSC for this major are: MATH220 MATH&amp;146 or 211 PHIL&amp;120 HIST&amp;128 (recommended)</li> <li>•X<sup>8</sup> - Look at WSU's catalog for science course options for this major: <a href="https://catalog.wsu.edu/Pullman/Academics/DegreeProgram/10315">https://catalog.wsu.edu/Pullman/Academics/DegreeProgram/10315</a></li> <li>•The major requires Discrete Structure and Advanced Data Structures, which are not offered at NSC. Complete these courses in the first semester at WSU.</li> </ul>
M	Washington State University <u>Pullman</u> -BS in Software Engineering	<ul style="list-style-type: none"> <li>•Courses indicate with X can be taken at NSC for this major.</li> <li>•Additional courses that can be taken at NSC for this major are: PHYS&amp;221 and <b>PHYS&amp;223*</b>, or CHEM&amp;161 and CHEM&amp;162 MATH220 ECON&amp;201 or ECON&amp;202 HIST&amp;128 (recommended)</li> <li>*At NSC, PHYS&amp;223 requires PHYS&amp;222 and MATH&amp;152.</li> <li>•The major requires Discrete Structures and Advanced Data Structures, which are not offered at NSC. Complete these courses the first semester at WSU.</li> </ul>
N	Washington State University <u>Everett</u> -BS in Software Engineering	<ul style="list-style-type: none"> <li>•X<sup>9</sup> - Complete PHYS&amp;221 and <b>PHYS&amp;223*</b>, or CHEM&amp;161 and CHEM&amp;162</li> <li>*At NSC, PHYS&amp;223 requires PHYS&amp;222 and MATH&amp;152.</li> <li>•Complete: ECON&amp;201 or ECON&amp;202 MATH220 Two of the following - MATH224, MATH&amp;146 or MATH211, PHIL&amp;120</li> <li>•Recommended to complete AS-DTA or AS-2 degree.</li> <li>•Two additional courses are recommended: WSU Cpts223 or 223 and WSU Cpts260. NSC doesn't offer these courses.</li> </ul>
O	Western Washington University -BS in Computer Science	<ul style="list-style-type: none"> <li>•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.</li> <li>•Courses indicated with X are recommended.</li> <li>•MATH220 is also recommended. MATH220 requires MATH&amp;163 at NSC.</li> <li>•X<sup>10</sup> - Recommended to completed one of the following sequences: PHYS&amp;221, 222, 223 CHEM&amp;161, 162, 163 BIOL&amp;211, 212, 213</li> </ul>
P	Bellevue College -BS in Computer Science	<ul style="list-style-type: none"> <li>•X<sup>11</sup> - Complete either PHYS&amp;221, CHEM&amp;161, BIOL&amp;160, or BIOL&amp;211.</li> </ul>
Q	North Seattle College -BAS in Application Development Program	<ul style="list-style-type: none"> <li>•Complete an associate degree with a minimum cumulative 2.5 or higher, and a 2.5 GPA or higher in all IT courses.</li> <li>•For more information about the program, contact Michelle Melero, the program coordinator, at <a href="mailto:Michelle.Melero@seattlecolleges.edu">Michelle.Melero@seattlecolleges.edu</a>.</li> </ul>