### 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.

<table>
<thead>
<tr>
<th>University</th>
<th>ENGL &amp;101</th>
<th>MATH &amp;151</th>
<th>MATH &amp;152</th>
<th>MATH &amp;163</th>
<th>CSC 110*</th>
<th>CSC 142</th>
<th>CSC 143</th>
<th>Lab Sci</th>
<th>See note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Central Washington University Des Moines - BS in Computer Science</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td>A</td>
</tr>
<tr>
<td>Central Washington University Ellensburg - BS in Computer Science</td>
<td>X²</td>
<td>X²</td>
<td></td>
<td></td>
<td>X</td>
<td>X²</td>
<td>X²</td>
<td></td>
<td>B</td>
</tr>
<tr>
<td>Eastern Washington University BS in Computer Science (BSCS) - Bachelor of Computer Science (BCS)</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td>C</td>
</tr>
<tr>
<td>Seattle Pacific University - BS in Computer Science</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td>D</td>
</tr>
<tr>
<td>Seattle Pacific University - BA in Computer Science - BS in Information Systems</td>
<td>X²</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Seattle University - BS in Computer Science</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>E</td>
</tr>
<tr>
<td>UW Bothell - BS in Computer Science &amp; Software Engineering</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td>F</td>
</tr>
<tr>
<td>UW Bothell - BA in Applied Computing</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>UW Seattle - BS in Computer Science</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>G</td>
<td></td>
</tr>
<tr>
<td>UW Seattle - BS in Informatics</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
<td>X³</td>
<td></td>
<td>H</td>
<td></td>
</tr>
<tr>
<td>UW Tacoma - BS in Computer Science and Systems</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td>I</td>
</tr>
<tr>
<td>UW Tacoma - BA in Computer Science and Systems</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>UW Tacoma - BS in Information Technology</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>University</td>
<td>ENGL &amp;101</td>
<td>MATH &amp;151</td>
<td>MATH &amp;152</td>
<td>MATH &amp;163</td>
<td>CSC 110*</td>
<td>CSC 142</td>
<td>CSC 143</td>
<td>Lab Sci</td>
<td>See note</td>
</tr>
<tr>
<td>---------------------------------------------------</td>
<td>------------</td>
<td>-----------</td>
<td>-----------</td>
<td>-----------</td>
<td>----------</td>
<td>---------</td>
<td>---------</td>
<td>---------</td>
<td>----------</td>
</tr>
<tr>
<td>Washington State University</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>J</td>
</tr>
<tr>
<td>Pullman - BS in Computer Science</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Washington State University</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>K</td>
</tr>
<tr>
<td>Pullman - BS in Software Engineering</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Washington State University</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>L</td>
</tr>
<tr>
<td>Everett - BS in Software Engineering</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Western Washington University</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>M</td>
</tr>
<tr>
<td>University - BS in Computer Science</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>College</td>
<td>ENGL &amp;101</td>
<td>MATH &amp;151</td>
<td>MATH &amp;152</td>
<td>MATH &amp;163</td>
<td>CSC 110*</td>
<td>CSC 142</td>
<td>CSC 143</td>
<td>Lab Sci</td>
<td>See note</td>
</tr>
<tr>
<td>Bellevue College - BS in Computer Science</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>N</td>
</tr>
<tr>
<td>North Seattle College - BS in Computer Science</td>
<td>X</td>
<td></td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>North Seattle College - BAS in Application Development</td>
<td>Prerequisites:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• ENGL&amp;101</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• QSR – college level math (5cr): Statistics (MATH&amp;146, MATH211, or BUS210) or Pre-Calculus (MATH&amp;141) recommended</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• CSC110</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• CSC142</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• T125</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• IT135</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• IT 102 or IT161</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*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.
<table>
<thead>
<tr>
<th>Note</th>
<th>University/College</th>
<th>Notes</th>
</tr>
</thead>
</table>
| A    | Central Washington University  
Des Moines  
-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  
Ellensburg  
-BS in Computer Science | •The major doesn’t have required pre-admission courses. However, until students have earned 2.0 or higher in X 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.  
•X² - 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)–Math specialization 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–Business specialization 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.  
•X³ - 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. |
<table>
<thead>
<tr>
<th>Location</th>
<th>Program</th>
<th>Requirements</th>
</tr>
</thead>
</table>
| **-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 Pullman | -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 Everett | -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  
-BS in Software Engineering | • 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  
-BAS in Cyber Security | • 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 Michelle.Melero@seattlecolleges.edu. |  |

*Seattle Colleges District VI does not discriminate on the basis of race, color, national origin, ethnicity, religion, disability, sex, pregnancy, sexual orientation, gender identity or expression, veteran status, or age in its programs and activities.*