Web Application Technologies Certificate – 515  
Requirements Effective Summer 2020  
Program Planning Guide

**Program Description:** Web Application Technologies enables students to build and support simple web-based applications. Students completing this certificate will qualify for positions in web application support, quality assurance, usability testing, and help desk.

**Prerequisites:** Many classes have prerequisites. Prerequisites are those classes that prove eligibility for entry-level classes by testing or by having satisfied prior course work. Course work earned at other institutions must be unofficially evaluated or approved by a program advisor before registering. Courses in this certificate with pre-requisites are marked with an asterisk (*). See catalog for more information.

**Web Application Technologies Certificate Prerequisites:** none.

**Note:** Advanced placement testing, work experience, and transfer of credits may result in course waivers, credit transfer, and advanced placement.

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Certificate Requirements (15 credits)</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>IT 102</td>
<td>Introduction to Programming</td>
<td>5</td>
</tr>
<tr>
<td>IT 161</td>
<td>Web Authoring 1</td>
<td>5</td>
</tr>
<tr>
<td>IT 120</td>
<td>Network Essentials - CompTIA Network + (see Note 1)</td>
<td>5</td>
</tr>
<tr>
<td>IT 125</td>
<td>Using Structured Query Language &amp; SQL Server (see Note 2)</td>
<td>5</td>
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**Total Credits:** 20

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**Notes:**
1. Must have EET 131 (may be taken concurrently) or instructor permission.
2. Recommended: work or class experience using DBMS.

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**Course Sequence:** These four courses can be taken in any order.

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**Program Outcomes:**

- Author simple web pages in HTML5, CSS, and related web technologies.
- Understand basic programming concepts such as variables, functions, input/output, and flow controls.
- Configure client and server devices with TCP/IP settings including IP addresses, ports, and domain names.
- Understand core relational database concepts such as tables, attributes, entities, queries, and connectors.

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**What Skills do I need to be successful in this field?**

- [https://www.onetonline.org/link/summary/15-1134.00](https://www.onetonline.org/link/summary/15-1134.00) (Web Developers)

**REV Date:** 11/9/2020

For more information about our graduation rates, the median debt of students who have completed these program, and other important information, please visit our website [https://northseattle.edu/about-north/gainful-employment-information](https://northseattle.edu/about-north/gainful-employment-information)
Web Application Technologies Certificate – 515

- https://www.onetonline.org/link/summary/15-1151.00 (Computer User Support Specialists)
- https://www.onetonline.org/link/summary/15-1199.01 (Software Quality Assurance Engineers and Testers)

What are some potential job titles?

- web developer
- quality assurance engineer or tester
- computer user support specialist (help desk)

Wages, employment trends and pathways

Web Developers and Digital Interface Designers
https://www.onetonline.org/link/summary/15-1134.00#WagesEmployment

Computer User Support Specialists
https://www.onetonline.org/link/summary/15-1151.00#WagesEmployment

Software Quality Assurance Engineers and Testers
https://www.onetonline.org/link/summary/15-1199.01#WagesEmployment

NSC Advising Office: (206) 934-3658 https://northseattle.edu/advising
Program Website: https://northseattle.edu/certificates/web-application-technologies-certificate

Program Contact: Robert Bunge (206) 934-4530 Robert.bunge@seattlecolleges.edu

CIP: 11.0801 (Web Page, Digital/Multimedia and Information Resources Design.)