

Full Stack Developer Certificate

Requirements Effective Fall 2021
Program Planning Guide

Program Description: This certificate program is a program option in the Application Development pathway and will articulate closely with the Application Development AAS-T and BAS programs. The certificate is very intensive and is for students looking for the shortest path to an entry-level position as a web/cloud application technician. Students looking to design and develop applications are advised to seek further study in the pathway. The certificate program is ideal for students looking for entry-level work in the field or for career changers with some knowledge of coding and programming, but no formal training.

Course Prerequisites: Many courses 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.

Full Stack Developer Prerequisites: Students entering this certificate should have taken and passed MATH 081 or have a higher math placement.

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

nber General Education/Related Instruction Requirements (15 credits)		
Interpersonal Communications for the Workplace 5		
Mathematical Applications for Circuit Analysis 5		
Intercultural Communication 5		
Certificate Requirements (43 credits)		
Using Computers in Business (T-Mobile Sequence Only) 5		
Intro to Programming 5		
Web Authoring I 5		
Programming Fundamentals 5		
Web Applications (Standard Sequence Only) 5		
Introduction to Software Development and Versioning 5		
Object Programming with Java 5		
Data Structures and Algorithms with Java 5		
SQL and SQL Server 5		
Internship	3	
	Total Credits: 58 (excluding pre-requisites)	
	Interpersonal Communications for the Workplace Mathematical Applications for Circuit Analysis Intercultural Communication Certificate Requirements (43 credits) Using Computers in Business (T-Mobile Sequence Only) Intro to Programming Web Authoring I Programming Fundamentals Web Applications (Standard Sequence Only) Introduction to Software Development and Versioning Object Programming with Java Data Structures and Algorithms with Java SQL and SQL Server Internship	

Program Outcomes:

- Students will be able to transition into the Application Development AAS-T degree program where, upon
 completion they will meet the prerequisite requirements for entry into the Bachelor of Applied Science Degree
 in Application Development.
- Students will apply scientific or technical knowledge in order to understand issues, solve problems, and engage in useful and responsible practices in computer programming
- Debug and manage software applications
- Test full stack web applications and develop simple applications.
- Share code and function effectively as a member of a team, collaborate with development teams to discuss, analyze, or resolve usability issues.

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

- Web Administrator, https://www.onetonline.org/link/summary/15-1299.01
- Web Developer, https://www.onetonline.org/link/summary/15-1254.00

What are some potential job titles and employment trends?

Certificate completers may qualify for entry-level positions in these occupational areas:

- Web Administrator
- Web Developer
- Software Developers, Applications

Suggested Course Sequence: This program of study is outlined by quarter, and courses should be taken in the indicated sequence. However, it should not be concluded that students will always proceed through their program of study exactly as prescribed here. The number of quarters listed here is minimal. Not all courses are offered every quarter. Individual student experiences, educational and training background, and personal schedules and demands all may affect the time it takes to finish this program. Also, in general, summer quarter is not considered one of the full-time quarters in the program.

Quarter	Standard Sequence (58 credits)	T-Mobile Project Sequence (58 credits)
Pre-College		CWE 110, BUS 169, IT 102, MATH 098*
1 st Quarter	IT 102, IT 161, EET 109	IT 161, IT 115, EET 109
2 nd Quarter	IT 111, IT 115, BUS 236	IT 111, IT 125, BUS 236
3 rd Quarter	IT 112, IT 125, HUM 105	IT 211, IT 212, HUM 105
4 th Quarter	IT 211, IT 212, CWE 110	

^{*}Required for students whose math placement is MATH 098.

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