

# IT SPECIALTY - FULL STACK DEVELOPER, SC

## Program Description

IT Specialty - Full Stack Developer allows students to develop an understanding of computer functions; master basic programming skills; develop and design web pages; and develop advanced programming and database development skills. This program provides the foundation for careers and/or further study in computer programming, software development, cybersecurity, web development, and other related technology fields.

This program is not eligible for financial aid. However, it may be eligible for scholarship funding if the student is awarded scholarships.

## Recommended Course Schedule

1st semester		Units
CIT 114	IT Essentials	4
CIT 134	Beginning C# Programming	3
CIT 151	Beginning Web Development	3
CIT 180 or DATA 210	Database Concepts and SQL or Introduction to SQL for Data Science	3
<b>Semester Total</b>		<b>13</b>
2nd semester		Units
CIT 234	Advanced C# Programming	3
CIT 152	Web Script Language Programming	3
CIT 251	Advanced Web Development	3
CIT 198	Special Topics in CIT	1
<b>Semester Total</b>		<b>10</b>
<b>Total Units</b>		<b>23</b>

## Program Requirements

Skills Certificates can consist of a single course or a short set of courses that provide training for entry-level positions or career advancement. These short-term certificates may also prepare students to take state, national and/or industry-recognized certifications or licensing exams.

Skills certificates are awarded upon completion of coursework and marked on a student's transcripts at the end of the semester. Students cannot declare a skills certificate as one's major. Skills Certificates are not eligible for Financial Aid.

To earn a skills certificate, students must:

1. Maintain a minimum cumulative GPA of 2.0.
2. Have no financial or library obligation to the college.

Code	Title	Units
<i>Certificate Requirement</i>		
CIT 114	IT Essentials	4
CIT 134	Beginning C# Programming	3
CIT 151	Beginning Web Development	3
CIT 152	Web Script Language Programming	3

CIT 180 or DATA 210	Database Concepts and SQL Introduction to SQL for Data Science	3
CIT 198	Special Topics in CIT	1
CIT 234	Advanced C# Programming	3
CIT 251	Advanced Web Development	3
<b>Total Units</b>		<b>23</b>

## Program Outcomes

Students completing the certificate will:

PSLO1: Students will be able to identify computer components, install and troubleshoot hardware components, and demonstrate knowledge of correct installation procedures for an operating system.

PSLO2: Students will demonstrate an understanding of software coding, including design and analysis of software.

PSLO3: Students will demonstrate an understanding of essential database design skills to include queries and table creation using SQL.

PSLO4: Students will design and implement program problem solutions involving generic methods, sequential access file processing and using dynamic data structures.

PSLO5: Students will create a well-design, accessible web site that conforms to web standards, uses interactive features, processes and stores form information, and uses programming constructs.