

# WEB DEVELOPMENT SPECIALIST, COLLEGE CREDIT CERTIFICATE

**Program Code:** WDCC

**Meta-Major:** STEM

**Location(s):** Cocoa, Melbourne, Palm Bay, Titusville, Online

**Delivery Method(s):** Hybrid, Online

**Previous Degree Required:** HS Diploma

**Eligible for Financial Aid:** Yes

**Additional Limited Access Application Process Required:** No

**Program Testing Requirements:**

**Classification of Instructional Programs (CIP) Code:** 11.0801

**Florida Department of Education CIP Code:** 0511080103

This certificate program provides the student with the knowledge and hands-on experience to perform system administration tasks for both popular industry databases and operating systems. This program also prepares the students to work with Open Source operating systems and databases. In addition, students will learn to develop Web applications incorporating both client side and server side Web programming technologies.

Typical entry-level positions for graduates of the program include:

- Junior DBA
- Junior Web Master
- Junior System Administrator
- Junior Web Developer

Credits earned in this certificate may apply to the [Associate in Science \(A.S.\) degree in Computer Programming and Analysis](#). [Visit the program page for more details and how to apply.](#)

Refer to [course descriptions](#) to determine prerequisites.

## Certificate Requirements

Code	Title	Credit Hours
<b>Major Courses</b>		
CGS 1000	Exploring Digital Technology	3
CGS 2100	Microcomputer Applications	3
CGS 2941	Internship	2
COP 1000	Principles of Programming	3
COP 2334	Introduction to C++ Programming	3
COP 2360	C# Programming	3
COP 2700	Database Techniques	3
COP 2800	Introduction to Java Programming	3
COP 2812	Introduction to XML	3
COP 2822	Web Page Authoring	3
CTS 1321	Linux Networking and System Administration	3
CTS 2440	Introduction to Oracle SQL and PL/SQL	3
<b>Total Credit Hours</b>		<b>35</b>

## Learning Outcomes: Computer Programming & Analysis A.S.

1. Code elementary data type variables using pseudocode
  - *Supports Core Ability: Think Critically and Solve Problems*
2. Code programmer designed functions using pseudocode
  - *Supports Core Ability: Think Critically and Solve Problems*
3. Code C++ programs designed for reading text files
  - *Supports Core Ability: Think Critically and Solve Problems*
4. Code C++ programs using repetition control structures
  - *Supports Core Ability: Think Critically and Solve Problems*
5. Code C# programs using built-in and programmer defined methods
  - *Supports Core Ability: Think Critically and Solve Problems*
6. Code C# programs using logical operators
  - *Supports Core Ability: Think Critically and Solve Problems*
7. Code Java iterative control structure types
  - *Supports Core Ability: Think Critically and Solve Problems*
8. Code using Java built-in math functions
  - *Supports Core Ability: Think Critically and Solve Problems*
9. Code hypertext markup language using Meta Tags
  - *Supports Core Ability: Think Critically and Solve Problems*
10. Code hypertext markup language using images as list markers
  - *Supports Core Ability: Think Critically and Solve Problems*