

# INFORMATION TECHNOLOGY, WEB PROGRAMMING, CERTIFICATE OF COMPETENCY (CSWP)

---

Effective: Fall 2016

The Web Programming Certificate is intended to prepare students to be an entry-level web developer or for further study in computer programming or web development. A junior-level web developer works within a team to create the vision for a client's website often utilizing design skills, HTML, CSS and jQuery. It is the job of the junior-level programmer to develop, troubleshoot and debug software programs. The Web Programming certificate emphasizes the more popular object-oriented programming languages as well as web development tools and techniques used in business today.

## Program Outcomes

- Apply analytical skills to assess how to solve problems.
- Apply the process of software development including design, implementation, documentation and testing.
- Develop web applications using industry standard development tools, techniques, scripting and mark-up languages.
- Demonstrate a working knowledge of standard HTML, CSS and responsive web design.

## Curriculum

The College will award a certificate of competency to students who complete an approved credit-bearing career program that requires less than 30 credits. General education courses may not be required for programs that have less than 30 credits. The student must have a cumulative GPA of 2.0 or higher. At least six (6) credits, or 50% of the total credits required, whichever is greater, must be completed at Delaware County Community College.

First Semester		Hours
CS 101	Introduction to Computer Science	3
	<b>Hours</b>	<b>3</b>
Second Semester		
CS 104	Introduction to Java Programming	3
IMM 120	Web Page Design and Development	3
	<b>Hours</b>	<b>6</b>
Third Semester		
CS 214	jQuery/JavaScript	3
CS 204	Intermediate Java Programming	3
CS 240	Responsive Web Design	3
	<b>Hours</b>	<b>9</b>
	<b>Total Hours</b>	<b>18</b>

## Career