

# WEB AND MOBILE DEVELOPMENT

## Certificate

### Program Description

The Web and Mobile Development Certificate program is designed for students who are interested in learning the fundamentals of web and mobile development or for those who wish to enhance their web development careers. This program is 27 credits in total and can be completed in 1-2 years.

The Web and Mobile Development Certificate Program will provide students with the knowledge and skills to design and develop functional, interactive websites. Students will gain valuable experience working with modern web languages, technologies, and practices. Topics include: markup languages (HTML, CSS), programming languages (JavaScript, PHP), databases (MySQL), multimedia creation (animation, video), and World Wide Web Consortium (W3C) compliance practices. Upon completion of the certificate, students will gain valuable hands-on experience with the many areas of website development, including web page design, client-side scripting, and server-side scripting.

### Program Outcomes

Upon completion of the Website and Mobile Development Certificate Program, students will be able to:

- Write HTML markup to create web page content
- Create CSS style sheets to format and lay out web page content
- Use an automated web development tool to create web pages as part of a complete web site
- Create and add multimedia content such as graphics, animation, and sound to websites
- Identify the different roles of client-side scripts and server-side scripts
- Write front-end code with JavaScript to create dynamic web pages and process user input
- Create a test database with MySQL for querying and retrieving data
- Write back-end code with PHP to query and update a database via a web page

### Program Requirements

BUS 101	Intro to Business	3 credits
CSA 227	Website Design	3 credits
CSA 229	Web and Mobile Development with JavaScript	3 credits
CSA 236	Digital Multimedia for the Web	3 credits
CSI 101	Introduction to Computers	3 credits
CSI 116	Introduction to Programming	3 credits
CSI 204	Website Programming with PHP and MySQL	3 credits
Program Electives		6 credits
<b>Total credits required for graduation</b>		<b>27 credits</b>

### Program Electives

CSI 107	C++ Programming*	3 credits
CSI 108	Advanced C++*	3 credits
CSI 226	UNIX with Linux	3 credits
CSI 233	Java Programming*	3 credits
CSI 237	Advanced Java*	3 credits
CSI 247	Advanced Database Management*	3 credits
CSI 248	Building Web Apps with Ruby on Rails*	3 credits
CSI 297	Computer Science Internship*	3 credits
LAW 203	Cyber Law	3 credits

\*Indicates course requires the completion of a prerequisite.

For more information about our graduation rates, the median debt of students who completed the program, and other important information, go to [www.quincycollege.edu/gedata](http://www.quincycollege.edu/gedata) for our Gainful Employment Reporting Data

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