

# COMPUTER AND INFORMATION SCIENCES - WEB DEVELOPMENT

The Web Development certificate is designed to prepare students to begin developing web sites as a professional. The curriculum provides a balanced foundation of all aspects of web development. Students will gain basic competencies in web authoring software, web graphics, web animation, HTML, client-side scripting, server-side scripting, and database connectivity. There is emphasis on understanding and practicing the entire web development process, from start to finish.

***Student Learning Outcomes for this certificate are:***

- Use authoring software to develop and manage a web site.
- Use graphics software to design web page layout and to produce and optimize graphics for the web.
- Use software to produce animation/video for the web.
- Write and interpret HTML code.
- Write, interpret, and apply client-side scripting.
- Write, interpret, and apply server-side scripting.
- Develop data-driven web pages.

**A. REQUIRED COURSES**

**31 units distributed as follows:**

**1. All courses from the following (27 units):**

- CIS 100 Web Publishing Using Authoring Software
- CIS 101 Graphics for the Web
- CIS 102 Animation for the Web
- CIS 112 Web Publishing Using HTML and CSS
- CIS 113 Client-Side Scripting for the Web
- CIS 114 Data-Driven Web Sites
- CIS 115 Current Technologies in Web Development

**2. One course from the following (4 units):**

- ART 111 Two-Dimensional Design
- ART 112 Two- and Three-Dimensional Design
- DMA 121 Artistic Concepts for the Web