

# Web and Multimedia Technology



## What is the Web and Multimedia Technology Program?

In the Web and Multimedia Technology Program, students learn about the planning, production and mechanical development, information structure, and visual design of websites. This program provides training for a variety of careers including Web designer, webmaster, Web developer, and multimedia artist.

## What type of students excel in this program?

The Web is a meeting of imagination and creativity, but needs logic and programming to make it run. Web designers are computer geeks with a talent for design. They don't just make Web pages that work; they make them look good.

## What is the employment outlook for this career field?

According to the U.S. Bureau of Labor Statistics, the expansion of ecommerce has created a diversity of occupations associated with design, development, and maintenance of websites and their servers. Rapidly changing technology and mobile has increased the demand for people with skills. Because of this, the employment outlook for Web developers is expected to increase by 13 percent over the next 10 years.

## Why choose HCC?

Web and multimedia is an increasingly popular field of study. HCC offers the latest technology and software with hands-on instructions to give students a competitive edge in a constantly changing environment.

HCC's program is one of the few on the east coast that teaches design and development under its own designator. Other colleges teach either design (e.g., HTML, CSS, and Photoshop) or development (e.g., PHP, MySQL, and JavaScript), but, at HCC, students learn the art of design and the science of programming at the same time.

Students earning the A.A.S. degree can complete a Web design internship with a local



multimedia company where they will gain valuable on-the-job experience. In addition, second year students will complete a group service learning project for a local non-profit organization. By the end of the program, students will have working production websites to add to their portfolios.

## A.A.S. Degree Web and Multimedia Technology

The A.A.S. degree in Web and multimedia technology provides training for a variety of careers in this field. The program consists of specialized Web and multimedia design and development courses, as well as general education offerings. Students successfully completing this program will be proficient in the areas of website production, administration, and programming. They will also have acquired technical skills in the areas of visual design, communication, and content development. A student completing the Web and Multimedia Technology Program will be prepared to work as a webmaster, Web developer, Web designer, or Web graphic and multimedia artist.

## PROGRAM OPTIONS

- A.A.S. Degree, Web and Multimedia Technology
- Certificate, Web/Multimedia Development
- Letter of Recognition, Web Site Development

## CAREER OUTLOOK

MEDIAN SALARY

**\$77K**

for Web Developers

EMPLOYMENT



199,400 jobs in U.S.  
13% growth in the next ten years

Demand for web developers will continue to grow and be driven by the growing popularity of mobile devices and ecommerce.

(source: [www.bls.gov/oo](http://www.bls.gov/oo))

## General Education Requirements 18-19 credits Arts/Humanities

Select from approved General Education course list ..... 3

## Behavioral/Social Sciences

Select from approved General Education course list ..... 3

## Biological/Physical Science

Select from approved General Education course list ..... 3-4

## Diversity

Select from approved General Education course list ..... 3

## English

ENG 112 Technical Writing I ..... 3

*\*A minimum grade of "C" or better is required for ENG-112*

## Mathematics

Select one course from approved General Education course list ..... 3

## Program Requirements 30 credits

CSC	102	Introduction to Information Technology .....	3
GDT	112	Computer Graphics .....	3
GDT	116	Digital Imaging .....	3
IST	173	Database Fundamentals .....	3
STU	106	Professionalism in the Workplace ....	1
WEB	101	Web Design I .....	3
WEB	110	Web Design II .....	3
WEB	115	Web Developer I .....	3
WEB	210	Web Developer II .....	3
WEB	215	Javascript and Multimedia .....	3
WEB	220	Introduction to Content Management Systems .....	2

**Restricted Electives 9 credits**

Select restricted elective credits from the following list:

BUS	101	Introduction to business Organization and Management .....	(3)
COM	108	Introduction To Human Communications .....	(3)
CSC	109	UNIX/Linux Operating System .....	(3)
CSC	130	Introduction to Scripting Fundamentals Using Python .....	(3)
CSC	132	Introduction to C and C++ Programming .....	(3)
CSC	134	Introduction to JAVA Programming .....	(3)
GDT	142	Computer Illustration: Adobe Illustrator .....	(3)
GDT	146	Graphic Design I .....	(3)
GDT	220	Digital Video and Audio .....	(3)
SDE	201	Mobile Applications Design and Development .....	(3)
WEB	269	Internship I .....	(1-3)

**Free Electives 2-3 credits**

Electives should be selected in consultation with a transfer advisor. Some recommended courses are listed below:

ART	102	Two-Dimensional Design .....	(3)
IST	154	Networking Basics .....	(3)
IST	160	Introduction to Security Fundamentals .....	(3)
MGT	104	Marketing .....	(3)

**Degree Requirement.....60**

**Certificate**

**Web and Multimedia Technology**

**Web/Multimedia  
Development**

The Web/multimedia development certificate consists of specialized courses designed to develop knowledge and skills in the use of tools, equipment, traits, attitudes, and behaviors that are desirable for workers in the Web development occupation. This certificate program provides for formal academic preparation without loss of credit if an associate of applied science degree is desired.

**Program Requirements 30 credits**

BUS	101	Introduction to Business Organization and Management .....	3
CSC	102	Introduction to Information Technology .....	3
CSC	109	UNIX/Linux Operating System .....	3
GDT	112	Computer Graphics .....	3
IST	173	Database Fundamentals .....	3
SDE	102	2D Animation and Interactive Design .....	3
WEB	101	Web Design I .....	3
WEB	110	Web Design II .....	3
WEB	115	Web Developer I .....	3
WEB	215	JavaScript and Multimedia .....	3

**Certificate Requirement .....30**

**Letter of Recognition**

**Web and Multimedia Technology**

**Web Site Development**

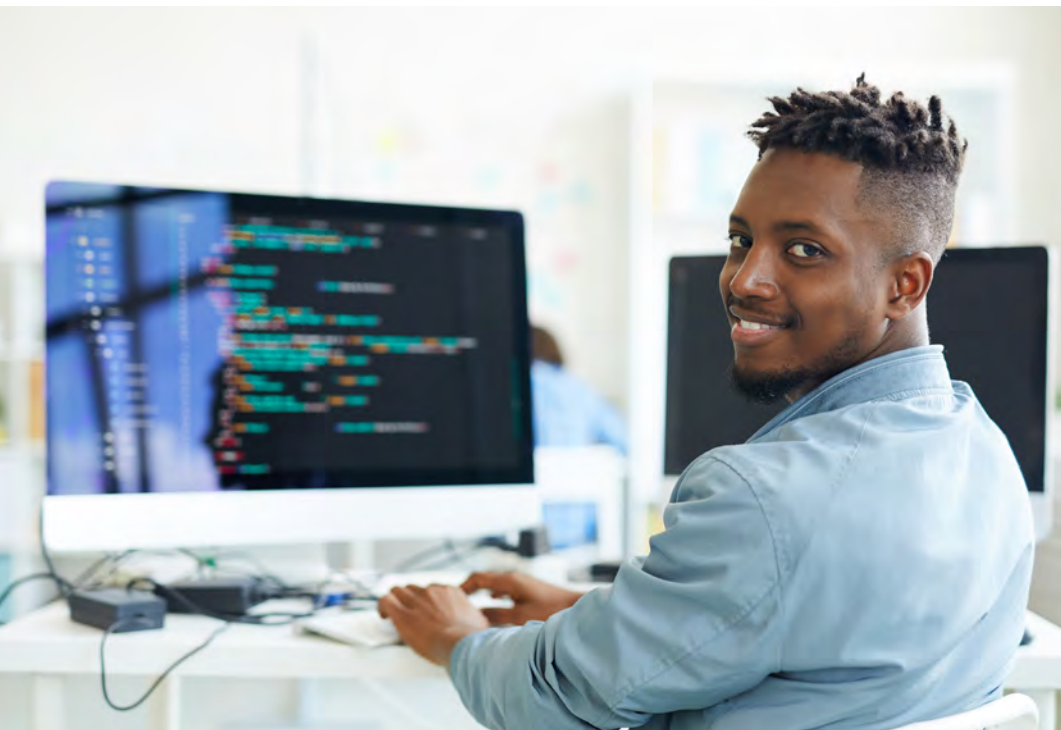
The website development letter of recognition helps to prepare for an entry-level position designing Web pages and developing websites. Skills include basic Web page design, graphic/media file manipulation and data integration. Credits earned in this sequence can be applied to the Web applications development certificate.

**Program Requirements 9 credits**

WEB	101	Web Design I .....	3
WEB	110	Web Design II .....	3
WEB	115	Web Developer I .....	3

**Letter of Recognition Requirement.....9**

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**Recommended Professional Resources**

American Institute of Graphic Artists (AIGA):  
[www.aiga.org](http://www.aiga.org)  
American Advertising Federation (AAF):  
[www.aaffederick.org](http://www.aaffederick.org)  
National Association of Photoshop  
Professionals (NAPP):  
[www.photoshopper.com](http://www.photoshopper.com)

[www.hagerstowncc.edu/web-design](http://www.hagerstowncc.edu/web-design)

