

# Web Technologies, A.A.S.

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Today's web developers have a huge audience for their work, thanks in large part to the Internet, as well as numerous employment possibilities. The various applications of the World Wide Web are limited only by human creativity. Email gave way to instant messaging and social networking. Early e-commerce led to online banking and trading. Where once it took minutes for a single picture to load onto a Web site, today you can watch TV and movies online and download DVDs. The driving force behind all of these advances is Web application developers, who are responsible for all technical aspects of a Web site.

Johnson County Community College's Web Technology program focuses on "real world"/hands-on and interactive learning. Web developers fuel the Internet's explosive growth by identifying and developing new applications for the Web, as well as refining existing uses, making Internet use simpler and more seamless. Web developers make the Web interface perform as it was designed and intended.

Associates of Applied Science in Web Technology program prepares students for current software and industry practices, application development specifically for the World Wide Web and applications for the mobile web. The core courses provide a broad foundation of software and industry skills. Students can then use the elective courses to tailor their AAS degree and develop their portfolio for specific work areas such as web programming, rich media applications, and mobile web applications. This program prepares students for entry-level positions and/or preparation for transfer to a four-year degree program at a college or university.

Graduates may work as Web Developers, Web Developer Consultants, Rich Media Applications Developers, Mobile Web Technologists/Developers, Web-based Game Developers, Smart Phone Application Developers, E-Commerce Developers, and entrepreneurs. Graduate's employment opportunities include a wide range of companies that are interested in using the Internet to market and/or sell their products and services or companies that provide Web development and maintenance as a contracted service.

(Major Code 2300; State CIP Code 11.0801)

- Information Systems (<http://www.jccc.edu/information-systems>)

## Associate of Applied Science

### First Semester

#### Full Semester Courses

CWEB 110	XHTML and CSS	3
CWEB 103	Professional Skills for the Digital Developer	3
CS 134	Programming Fundamentals	4
ENGL 121	Composition I*	3

#### First Five Week Session

CWEB 101	Introduction to the Web using Internet Explorer*	1
CWEB 105 or CWEB 104	Introduction to Web Pages: Dreamweaver* Introduction to Web Pages: Expression Web*	1

#### Second Five Week Session

CWEB 160	Introduction to JavaScript*	1
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Total Hours		16
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### Second Semester

#### Full Semester Courses

Health and/or Physical Education Elective ^		1
CWEB 212	Technical Interface Skills*	3
CWEB 166	Introduction to eXtensible Markup Language*	3
IT 140	Networking Fundamentals	4

#### First Five Week Session

CWEB 130	Introduction to Flash*	1
CWEB 126	Survey of Web Technologies*	2

#### Second Five Week Session

CWEB 140	Intermediate Flash*	1
CWEB 167	Introduction to Asynchronous JavaScript and XML*	1

#### Third Five Week Session

CWEB 150	Advanced Flash*	1
Total Hours		17

^ Health and/or Physical Education Elective (<http://catalog.jccc.edu/spring/degrecertificates/electives/health-and-or-physical-ed-aas>)

### Third Semester (Mobile Web Option)

#### Full Semester Courses

Humanities/Art Elective ^		3
Social Science and/or Economic Elective ^^		3
ENGL 140	Writing for Interactive Media*	3
CWEB 121	Introduction to Mobile Media*	3
CWEB 221	Design and Development for Mobile Web*	3

#### Second Five Week Session

CPCA 114	Databases I: MS Access*	1
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#### Third Five Week Session

CWEB 136	Introduction to PHP*	1
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Total Hours		17
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^ Humanities/Art Elective (<http://catalog.jccc.edu/spring/degrecertificates/electives/humanities-aas>)

^^ Social Science and/or Economics Elective (<http://catalog.jccc.edu/spring/degrecertificates/electives/social-sci-econ-aas>)

### Third Semester (Rich Media Applications Option)

#### Full Semester Courses

Humanities/Art Elective ^		3
Social Science and/or Economic Elective ^^		3
ENGL 140	Writing for Interactive Media*	3
CS 205	Concepts of Programming Algorithms using Java*	4
CWEB 250	Rich Internet Applications I*	3

#### Third Five Week Session

CWEB 190	ActionScript for Flash*	1
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Total Hours		17
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^ Humanities/Art Elective (<http://catalog.jccc.edu/spring/degrecertificates/electives/humanities-aas>)

^^ Social Science and/or Economics Elective (<http://catalog.jccc.edu/spring/degrecertificates/electives/social-sci-econ-aas>)

### Third Semester (Web Programming Option)

#### Full Semester Courses

Humanities/Art Elective ^		3
Social Science and/or Economic Elective ^^		3
ENGL 140	Writing for Interactive Media*	3
CWEB 260	CSS Techniques & Projects*	3

#### First Five Week Session

CPCA 114	Databases I: MS Access*	1
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#### Second Five Week Session

CWEB 115	Intermediate Web Pages: Dreamweaver*	1
or CWEB 114	Intermediate Web Pages: Expression Web*	
CWEB 136	Introduction to PHP*	1

#### Third Five Week Session

CWEB 125	Introduction to Dynamic Web Pages: Dreamweaver*	1
CWEB 190	ActionScript for Flash*	1

Total Hours		17
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^ Humanities/Art Elective (<http://catalog.jccc.edu/spring/degreecertificates/electives/humanities-aas>)

^^ Social Science and/or Economics Elective (<http://catalog.jccc.edu/spring/degreecertificates/electives/social-sci-econ-aas>)

## Fourth Semester (Mobile Web Option)

### Full Semester Courses

Program Electives (see below)		7
Science and/or Math Elective ^		3
CWEB 250	Rich Internet Applications I*	3
CWEB 290	Web Technologies Capstone*	3

### Third Five Week Session

CWEB 146	PHP with MySQL*	1
Total Hours		17

^ Science and/or Math Elective (<http://catalog.jccc.edu/spring/degreecertificates/electives/sci-and-or-math-aas>)

## Fourth Semester (Rich Media Applications Option)

### Full Semester Courses

Program Electives (see below)		7
Science and/or Math Elective ^		3
CIS 208	Mobile Application Development*	4
CWEB 290	Web Technologies Capstone*	3

Total Hours		17
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^ Science and/or Math Elective (<http://catalog.jccc.edu/spring/degreecertificates/electives/sci-and-or-math-aas>)

## Fourth Semester (Web Programming Option)

### Full Semester Courses

Program Electives (see below)		7
Science and/or Math Elective ^		3
CWEB 270	Web Analytics*	3
CWEB 290	Web Technologies Capstone*	3

### Third Five Week Session

CWEB 146	PHP with MySQL*	1
Total Hours		17

^ Science and/or Math Elective (<http://catalog.jccc.edu/spring/degreecertificates/electives/sci-and-or-math-aas>)

## Program Electives

BUS 150	Business Communications*	3
CDTP 135	Desktop Photo Manipulation I: Photoshop	1
CDTP 155	Desktop Photo Manipulation II: Photoshop*	1
CDTP 175	Desktop Photo Manipulation III: Photoshop*	1
CDTP 140	Desktop Publishing I: InDesign	1
CDTP 160	Desktop Publishing II: InDesign*	1
CDTP 168	Desktop Publishing III: InDesign*	1
CDTP 145	Desktop Illustration I: Illustrator	1
CDTP 165	Desktop Illustration II: Illustrator*	1
CDTP 185	Desktop Illustration III: Illustrator*	1
CS 205	Concepts of Programming Algorithms using Java*	4
CIS 162	Database Programming*	4
CPCA 109	Google Apps*	1
CPCA 121	Introduction to Project Management*	1

CPCA 139	UNIX*	1
CWEB 104	Introduction to Web Pages: Expression Web*	1
CWEB 105	Introduction to Web Pages: Dreamweaver*	1
CWEB 114	Intermediate Web Pages: Expression Web*	1
CWEB 115	Intermediate Web Pages: Dreamweaver*	1
CWEB 125	Introduction to Dynamic Web Pages: Dreamweaver*	1
CWEB 250	Rich Internet Applications I*	3
CWEB 292	Special Topics:	1-3
ENTR 120	Introduction to Entrepreneurship	2
IT 221	Windows Server*	3
IT 230	Linux Fundamentals	3

**Total Program Hours: 67**