WEB DEVELOPMENT, ADVANCED CERTIFICATE

College(s): DA, MX, OH, TR, WR

Program Code: 0155

The Advanced Certificate program in Web Development prepares students for entry-level positions as Web site editors, developers, or designers. Students acquire an understanding of programming principles and languages incorporated in Web pages, and become proficient in HTML and related technologies. This program will also be useful to individuals whose job duties have expanded to include web site responsibilities or who wish to develop web pages for their businesses.

Program Requirements

Code	Title	Hours
Required Program Core		
CIS 101	Computer Science 101	3
CIS 113	Human-Computer Interaction	3
CIS 114	Mobile Application Development	3
CIS 116	Operating System I	3
CIS 144	Java Object Oriented Programming I	3
CIS 181	Web Development I/Basic Web Technologies	3
CIS 182	Web Development II/Client Side Scripting	3
CIS 281	Web Development III/Server Side Programming	3
CIS 282	Web Development IV/Web Database Integration	3
NET TEC 101	Client-Server Database I	3
Total Hours		**30**

Pathway

This is an **example course sequence** for students interested in Web Development. It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn a Basic Certificate (BC) and an Advanced Certificate (AC) in Web Development.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Semester 1		Hours
CIS 101	Computer Science 101	3
CIS 116	Operating System I	3
CIS 181	Web Development I/Basic Web Technologies	3
	Hours	9
Semester 2		
CIS 113	Human-Computer Interaction	3
CIS 182	Web Development II/Client Side Scripting	3
NET TEC 101	Client-Server Database I	3
CIS 144	Java Object Oriented Programming I	3
	Hours	12
Semester 3		
CIS 114	Mobile Application Development	3
CIS 281	Web Development III/Server Side Programming	3
	Hours	6
Semester 4		
CIS 282	Web Development IV/Web Database Integration	3
	Hours	3
	Total Hours	**30**

Choose your courses with your College Advisor.

Careers

This program can prepare students for the jobs listed below. Click on each one to learn more, including average earnings, annual job openings, and how much education people in that field have. For additional guidance and resources on career options, current City Colleges students

and alumni can contact the Career Services Office (https://www.ccc.edu/departments/Pages/Career-Services.aspx).

Web Developers
Job Description

Develop and implement websites, web applications, application databases, and interactive web interfaces. Evaluate code to ensure that it is properly structured, meets industry standards, and is compatible with browsers and devices. Optimize website performance, scalability, and server-side code and processes. May develop website infrastructure and integrate websites with other computer applications.

Salary Based on Experience Level

Take a look at the average hourly/annual earnings for this career in Cook County

Lightcast earnings figures are based on OES data from the BLS and include base rate, cost of living allowances, guaranteed pay, hazardous-duty pay, incentive pay (including commissions and bonuses), on-call pay, and tips.

Annual Wages

Entry-Level 10th Percentile	$53,200
Median 50th Percentile	$86,736
Senior-Level 90th Percentile	$139,621

Hourly Wages

Entry-Level 10th Percentile	$26
Median 50th Percentile	$42
Senior-Level 90th Percentile	$67

Annual Job Openings

88 annual openings in Cook County

National Education Attainment

Here, you can see the level of education that people in this career complete.

Degree Program	% of Jobs
A high school diploma or less	12.50%
A certificate	16.67%
Some college	4.17%
An Associate degree	16.67%
A Bachelor's degree	50.00%
A Master's or Professional degree	0.00%
A Doctoral degree or more	0.00%

50.00% continue their education beyond an associate degree