

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

Hourly Wages

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