

WEB DEVELOPMENT, BASIC CERTIFICATE



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

Fundamentals of Programming, as CIS 144 Java Object Oriented Programming I is required for both the AC and AAS degree.

Program Code: 0152

The Web Development BC program prepares students for entry-level positions in website design and development. Students will learn various programming principles, languages and web technologies to effectively create and deploy dynamic websites. Students will also learn how to integrate web and database servers to increase the productivity and interactivity of a website. Potential job opportunities for students in this program include web designer, web developer, e-commerce manager, or web technician.



Program Requirements

Code	Title	Hours
Required Program Core		
CIS 101	Computer Science 101	3
CIS 103	Fundamentals of Programming ¹	3
or CIS 144	Java Object Oriented Programming I	
CIS 113	Human-Computer Interaction	3
CIS 116	Operating System I	3
CIS 181	Web Development I/Basic Web Technologies	3
CIS 182	Web Development II/Client Side Scripting	3
Total Hours		18

¹ Students who intend to complete the Advanced Certificate and/or Associate in Applied Science degree in Web Development should take CIS 144 Java Object Oriented Programming I instead of CIS 103

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) 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
CIS 144	Java Object Oriented Programming I ¹	3
or CIS 103	or Fundamentals of Programming	
Hours		9
Total Hours		18

¹ Students in the Basic Certificate program may take CIS 103 Fundamentals of Programming or CIS 144 Java Object Oriented Programming I, but should take CIS 144 Java Object Oriented Programming I if they intend to complete the Advanced Certificate and/or Associate in Applied Science degree in Web Development, as CIS 144 Java Object Oriented Programming I is required for both the AC and AAS degree.

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	\$50,656
Median 50 th Percentile	\$78,826
Senior-Level 90 th Percentile	\$137,503

Hourly Wages

Entry-Level 10 th Percentile	\$24
Median 50 th Percentile	\$38
Senior-Level 90 th Percentile	\$66

Annual Job Openings

124 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