WEB DEVELOPER: CS

Certificate of Specialization | 20 credit hours minimum

Area of Interest: Science, Technology, Engineering, and Math (STEM)

Program Website (https://stlcc.edu/programs-academics/pathways/s-t-e-m/web-developer/)

Academic Advising (https://stlcc.edu/admissions/advising/)

Program Description:

The Web Developer Certificate of Specialization is designed for students seeking skills to qualify for positions as Web Developers. The certificate was developed to include topics that will build the programming and design skills a Web Developer needs in order to build and maintain an organization's website. Emphasis is placed upon object-oriented and scripted languages that are widely used for the Internet and intranets. The courses provide students with both the theoretical and technical knowledge and practical hands-on experience to be successful in the high demand Web Developer occupation.

Location. This program is offered in its entirety at Meramec.

Related Program. The Computer and Information Technology Department offers an associate in the following area:

> **Software Developer, Associate in Applied Science (http://catalog.stlcc.edu/programs/software-developer-aas/)**

Cost of Attendance. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search/)**.

Program Career and Salary Information. Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/ (https://www.google.com/url/?q=https://scorecard.mo.gov/scorecard/&sa=D&ust=1555536894857000&usg=AFQjCNG1xf3E_i2lO96zEytILO-s5xaJCQ)**. Search using School / Program "St. Louis Community College" and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, most recent cohorts for wage and completion data are six years prior to the current academic year. Time to complete a program of study varies depending on the number of credit hours students earn per semester.

Interested in this program? Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

At the completion of the program, students are expected to:

1. develop websites for various display devices.
2. develop websites that incorporate current primary and secondary navigation features.
3. develop websites that comply with industry standards and guidelines for content accessibility.
4. develop front-end (Browser-side) applications using current tools for data collection and retrieval over the Web.
5. upgrade existing websites.
6. develop software to meet written requirements.

Code	Title	Credit Hours
Program Requirements		
IS 139	Web Publishing	3
IS 153	C# Programming I	4
or IS 187	Java Programming I	
IS 265	Web Scripting Technologies	3
IS 142	Web Development	3
IS 141	Graphics for the Web	3
IS 253	C# Programming II	4
or IS 287	Java Programming II	
Total Credit Hours		**20**

PLEASE NOTE: If you originally enrolled at STLCC prior to Fall 2025, you may need to view an **archived catalog (http://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

Full-Time Academic Plan:

Code	Title	Hours	Prerequisites	Milestones/Notes
First Year				
Fall				
IS 139	Web Publishing	3	Reading Proficiency	Exploratory Course, Gateway Course. 1st 8-week class
IS 153 or 187	C# Programming I or Java Programming I	4	Reading Proficiency	1st 8-week class
IS 141	Graphics for the Web	3	IS 139 with a minimum grade of "C" and Reading Proficiency	8-week class starting week 4
IS 265	Web Scripting Technologies	3	IS 139 with a minimum grade of "C" and Reading Proficiency	2nd 8-week class, starting week 9

IS 253
  or 287
	C# Programming II
	    or Java Programming II
		4	IS 153 or IS 167 or IS 187 or IS 166 with minimum grades of "C" and Reading Proficiency	2nd 8-week class, starting week 9

IS 142	Web Development	3	IS 153 or IS 167 or IS 187 with a minimum grade of "C", IS 139 with a minimum grade of "C", concurrent or prior enrollment in IS 265 with a minimum grade of "C", and Reading Proficiency	6-week class, starting week 11
	Credit Hours	**20**		
	Total Credit Hours	**20**		

Critical Courses: Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

Exploratory Courses: Exploratory courses are first-semester courses that introduce the program and career field.

Gateway Courses: Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

PLEASE NOTE: If you originally enrolled at STLCC prior to Fall 2025, you may need to view an **archived catalog (http://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

Part-Time Academic Plan:

Code	Title	Hours	Prerequisites	Milestones/Notes
First Year				
Fall				
IS 139	Web Publishing	3	Reading Proficiency	Exploratory Course, Gateway Course. 1st 8-week class

IS 153
  or 187
	C# Programming I
	    or Java Programming I
		4	Reading Proficiency	

IS 141	Graphics for the Web	3	IS 139 with a minimum grade of "C" and Reading Proficiency	
	Credit Hours	**10**		
Spring				
IS 265	Web Scripting Technologies	3	IS 139 with a minimum grade of "C" and Reading Proficiency	Apply for graduation.

IS 253
  or 287
	C# Programming II
	    or Java Programming II
		4	IS 153 or IS 167 or IS 187 or IS 166 with minimum grades of "C" and Reading Proficiency	

IS 142	Web Development	3	IS 153 or IS 167 or IS 187 with a minimum grade of "C", IS 139 with a minimum grade of "C", concurrent or prior enrollment in IS 265 with a minimum grade of "C", and Reading Proficiency	
	Credit Hours	**10**		
	Total Credit Hours	**20**		

Critical Courses: Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

Gateway Courses: Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

Exploratory Courses: Exploratory courses are first-semester courses that introduce the program and career field.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.