

ACCELERATED IT ACADEMY - PROGRAMMING AND CODING: CS

Certificate of Specialization | 18 credit hours minimum

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

Program Website (<https://stlcc.edu/programs-academics/pathways/s-t-e-m/accelerated-it-academy-programming/>)

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

Program Description:

The Accelerated IT Academy—Programming and Coding Certificate of Specialization provides a pathway for entry level Software Programming and Coding jobs. This program simulates real world experiences using C#, Java, database management, hands-on projects, critical thinking skills, and debugging and testing exercises. Additionally, in this program students will build a portfolio of evidence demonstrating skill mastery. Graduates will be qualified for employment in support and junior developers positions in the software developer settings or IT related field. The five courses in this program are transferable to the Software Developer Associate in Applied Science program.

Locations. This program is offered in its entirety at Florissant Valley.

Related Programs. 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. design programs that meet secure coding standards.
2. write professional and quality code.
3. design database management systems that comply with current industry standards.
4. demonstrate critical thinking skills in programming and database management.

Code	Title	Credit Hours
Program Requirements		
IS 166	C# and Java Programming I	4
IS 168	GitHub for Developers	1
IS 229	Unix/Linux I	3
IS 253	C# Programming II	4
or IS 287	Java Programming II	
IS 291	Workplace Learning: Computer and Information Technology	3
Electives: (Choose One)		
IS 288	Java Programming III	3-4
or IS 283	C# Programming III	
or IS 225	Database Management	
or IS 237	Fundamentals of Information Assurance/Security - CompTIA Security+	
or IS 139	Web Publishing	
Total Credit Hours		18-19

Full-Time Academic Plan

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.

Code	Title	Hours	Prerequisites	Milestones/Notes
First Year				
Fall				
IS 166	C# and Java Programming I	4	Reading Proficiency	Gateway Course, Critical Course, First 8-week
IS 168	GitHub for Developers	1	Reading Proficiency	First 8-week
IS 229	Unix/Linux I	3	Reading Proficiency	First 8-week

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	Second 8-week
IS 291	Workplace Learning: Computer and Information Technology	3	Enrollment in an IS program, department approval, and Reading Proficiency	16-week with work component
IS 283 or 288 or 225 or 237 or 139	C# Programming III ¹ or Java Programming III or Database Management or Fundamentals of Information Assurance/Security - CompTIA Security+ or Web Publishing	3-4	IS 253 with a minimum grade of "C" and Reading Proficiency	Second 8-Week
	Credit Hours	18-19		
	Total Credit Hours	18-19		

¹ To finish in one semester, you cannot select IS 283 or IS 288 due to prerequisites.

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.

Part Time Academic Plan

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.

Code	Title	Hours	Prerequisites	Milestones/Notes
First Year				
Fall				
IS 166	C# and Java Programming I	4	Reading Proficiency	Gateway Course, Critical Course, First 8-week course
IS 168	GitHub for Developers	1	Reading Proficiency	First 8 Weeks
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	Second 8 Weeks
	Credit Hours	9		
Spring				
IS 229	Unix/Linux I	3	Reading Proficiency	16 Weeks
IS 291	Workplace Learning: Computer and Information Technology	3	Enrollment in an IS program, department approval, and Reading Proficiency	16 Weeks (with work component)

IS 283 or 288 or 225 or 237 or 139	C# Programming III or Java Programming III or Database Management or Fundamentals of Information Assurance/Security - CompTIA Security+ or Web Publishing	3-4	IS 253 with a minimum grade of "C" and Reading Proficiency	Multiple modalities and term durations
	Credit Hours	9-10		
	Total Credit Hours	18-19		

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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.