



Computer Software Tester C.A.

Career Community: Computer Technology and Networking

Curriculum Code: 1633

Effective: Fall 2025 – Summer 2030

Purpose of the Major

Software Testing, or Software Quality Assurance, is one of many essential jobs in the computing industry. Companies need people to create software programs or applications as well as professionals to discover defects in these applications. Software testers must be knowledgeable about computers and their usage to meet the goals of the organization. They are familiar with programming and how software is put together. Knowledge of testing principles, such as test planning, test case design and implementation, test documentation, and the use of automated testing software are necessary. Soft skills are also essential to work effectively as a member of an organizational team. Students completing this certificate may use the credits towards the Computer Programmer/Analyst Associate of Business degree (0113).

Milestone

Completion of CITP 140 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in this course is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in this course.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Computer Information Technologies Program in the West Campus Building, Room M103, telephone number 517-267-6406 or Student Services West Campus, West Campus Building, Room M016, telephone number 517-267-5452.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
CITF 110	Intro Computer Info Systems	3 / 3
CITF 240	IT Project Management	3 / 3
CITF 260	Systems Analysis and Design	4 / 4
CITP 110	Intro to Programming-Python	4 / 4
CITP 140	Software Testing	3 / 3
CITP 240	Advanced Software Testing	3 / 3
CITW 150	Internet Literacy	3 / 3
COMM 110	Communication in the Workplace	3 / 3

Major Required Courses, Limited Choice - Writing – Select one

Course Code	Course Title	Credit / Billing Hours
ENGL 124	Technical Writing	3 / 3
ENGL 127	Business Writing	3 / 3

Major Required Courses, Limited Choice - Programming – Select one

Course Code	Course Title	Credit / Billing Hours
CITP 150	Intro to VB.NET Programming	4 / 4
CITP 180	Intro to C#.NET Programming	4 / 4
CITP 190	Intro to Programming in JAVA	4 / 4

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 30-credit minimum required for a Certificate of Achievement may select any course(s) needed to reach 30 credits, except those courses noted in number 7 in the [Institutional Requirements for Certificates of Achievement](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

33 credits / 33 billing hours

Recommended Course Sequence

Semester I
CITF 110
CITP 110
CITP 140 – Milestone course
COMM 110
Limited Choice - Writing

Semester II
CITF 240
CITF 260
CITP 240
CITW 150
Limited Choice - Programming

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.