

LANSING COMMUNITY COLLEGE

Computer, Engineering/Manufacturing Industrial Technologies

Curriculum Code: 1633
(Effective Fall 2018 –
Summer 2023)

Computer Software Tester C.A. Pathway

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 in Business Degree (0113).

For More Information

Contact the Computer Information Technologies Program in the West Campus Building, Room M103, telephone number (517) 267-6406 or Academic Advising Department, Gannon Building – StarZone, telephone number (517) 483-1904.

Semester I	Course Title	Prerequisites	Credit/Billing Hours
Program of Study Requirements			
CITF 110	Intro Computer Info Systems	Reading Level 4 and Writing Level 4	3 / 3
CITP 110	Intro to Programming-Python	Reading Level 5 and (Math Level 4 or minimum 2.0 in MATH 105 or MATH 106)	4 / 4
CITP 140	Software Testing	Minimum 2.0 in (CITP 110 or concurrently) and Reading Level 5 and (Math Level 4 or minimum 2.0 in MATH 105 or MATH 106)	3 / 3
COMM 110	Oral Comm in the Workplace	Reading Level 5 and Writing Level 6 or (Reading Level 4 and Writing Level 4 and ENGL 099 concurrently)	3 / 3
Writing Electives - <i>Select 1</i>			
ENGL 124	Technical Writing	Reading Level 5 and Writing Level 6 or (Reading Level 4 and Writing Level 4 and ENGL 099 concurrently)	3 / 3
ENGL 127	Business Writing	Reading Level 5 and Writing Level 6 or (Reading Level 4 and Writing Level 4 and ENGL 099 concurrently)	3 / 3
Credits			16 / 16

Semester II	Course Title	Prerequisites	Credit/Billing Hours
Program of Study Requirements			
CITF 240	IT Project Management	Minimum 2.0 in (CITF 110 or CITS 125) and Reading Level 4 and Writing Level 4	3 / 3
CITF 260	Systems Analysis and Design	Minimum 2.0 in (CITF 110 and (CITP 110 or CIP 150)) and Reading Level 5 and Writing Level 6 and Math Level 4	4 / 4
CITP 240	Advanced Software Testing	Minimum 2.0 in CIP 140 and Reading Level 5 and Math Level 4	3 / 3
CITW 150	Internet Literacy	Reading Level 5 and Writing Level 6	3 / 3
Programming Electives - <i>Select 1</i>			
CITP 150	Intro to VB.NET Programming	Minimum 2.0 in (CITP 110 or CPSC 230) and Reading Level 5 and Math Level 4	4 / 4
CITP 180	Intro to C#.NET Programming	Minimum 2.0 in (CITP 110 or CPSC 230) and Reading Level 5 and Math Level 4	4 / 4
CITP 190	Intro to Programming in JAVA	Minimum 2.0 in (CITP 110 or CPSC 230) and Reading Level 5 and Math Level 4	4 / 4
Credits			17 / 17
Total Credits			33 / 33