

LANSING COMMUNITY COLLEGE

Computer, Engineering/Manufacturing Industrial Technologies

Curriculum Code: 1712
(Effective Fall 2018 –
Summer 2023)

Mobile Application Developer C.A. Pathway

This certificate provides students with an understanding of mobile applications (apps) and how these applications are utilized and integrated to meet specific business needs. The coursework builds a solid foundation of software development skills and introduces the specific skills needed for developing mobile applications. Students will also develop skills in the design of Android and iOS software systems, using appropriate technologies, architectures and techniques. This course work may be applied toward completion of the Computer Programmer/Analyst, Associate in Business Degree (0113).

For More Information

Contact the Computer Information Technologies Program at 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			
CITP 110	Intro to Programming-Python	Reading Level 5 and Math Level 4	4 / 4
CITW 150	Internet Literacy	Reading Level 5 and Writing Level 6	3 / 3
Electives - <i>Select 1-2 courses for a minimum of 3 credits</i> <i>Courses may not be duplicated</i>			
CITD 120	SQL Concepts	Reading Level 4 and Writing Level 4	2 / 2
CITF 140	Information Technology Ethics	Reading Level 5 and Writing Level 6	3 / 3
CITP 140	Software Testing	Minimum 2.0 in (CITP 110 or concurrently) and Reading Level 5 and Math Level 4	3 / 3
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
CITP 220	Game Design & Development	Minimum 2.0 in CITP 180 and Reading Level 5 and Writing Level 6 and Math Level 4	2 / 4
CITW 165	Web Development JavaScript	Minimum 2.0 in CITW 160 and Reading Level 5 and Writing Level 6	3 / 3
CITW 185	Web Development PHP & MySQL	Minimum 2.0 in (CITW 160 or ARTS 173 or concurrently) and Reading Level 5 and Writing Level 6	4 / 4
Credits			10-11 / 10-11

Semester II	Course Title	Prerequisites	Credit/Billing Hours
Program of Study Requirements			
CITP 130	Intro to Mobile App Devel	Minimum 2.0 in (CITP 110 or CPSC 230) and Reading Level 5 and Writing Level 6 and Math Level 4	3 / 3
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
CITW 160	Web Development HTML & CSS	Reading Level 5 and Writing Level 6	3 / 3
Electives - <i>Select 1-2 courses for a minimum of 3 credits</i> <i>Courses may not be duplicated</i>			
CITD 120	SQL Concepts	Reading Level 4 and Writing Level 4	2 / 2
CITF 140	Information Technology Ethics	Reading Level 5 and Writing Level 6	3 / 3
CITP 140	Software Testing	Minimum 2.0 in (CITP 110 or concurrently) and Reading Level 5 and Math Level 4	3 / 3
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
CITP 220	Game Design & Development	Minimum 2.0 in CITP 180 and Reading Level 5 and Writing Level 6 and Math Level 4	2 / 4
CITW 165	Web Development JavaScript	Minimum 2.0 in CITW 160 and Reading Level 5 and Writing Level 6	3 / 3
CITW 185	Web Development PHP & MySQL	Minimum 2.0 in (CITW 160 or ARTS 173 or concurrently) and Reading Level 5 and Writing Level 6	4 / 4
Credits			13-14 / 13-14

Semester III	Course Title	Prerequisites	Credit/Billing Hours
Program of Study Requirements			
CITP 230	Mobile App Devel for Android	Minimum 2.0 in CITP 130 and Reading Level 5 and Writing Level 6 and Math Level 4	4 / 4
CITP 235	Mobile App Devel for Apple	Minimum 2.0 in CITP 130 and Reading Level 5 and Writing Level 6 and Math Level 4	4 / 4
Electives - <i>Select 1-2 courses for a minimum of 3 credits</i> <i>Courses may not be duplicated</i>			
CITD 120	SQL Concepts	Reading Level 4 and Writing Level 4	2 / 2
CITF 140	Information Technology Ethics	Reading Level 5 and Writing Level 6	3 / 3
CITP 140	Software Testing	Minimum 2.0 in (CITP 110 or concurrently) and Reading Level 5 and Math Level 4	3 / 3
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
CITP 220	Game Design & Development	Minimum 2.0 in CITP 180 and Reading Level 5 and Writing Level 6 and Math Level 4	2 / 4
CITW 165	Web Development JavaScript	Minimum 2.0 in CITW 160 and Reading Level 5 and Writing Level 6	3 / 3
CITW 185	Web Development PHP & MySQL	Minimum 2.0 in (CITW 160 or ARTS 173 or concurrently) and Reading Level 5 and Writing Level 6	4 / 4
Credits			11-12 / 11-12
Total Credits			34-37 / 34-37