

LANSING COMMUNITY COLLEGE

Computer, Engineering/Manufacturing Industrial Technologies

Curriculum Code:
0113 (Effective
Fall 2017 –
Summer 2022)

Computer Programmer/Analyst, A.B. Pathway

Semester I	Course Title	Prerequisites	Credit/ Billing Hours
Math Core Area - <i>Select 1</i>			
MATH 119	Math - Applications for Living	(Minimum 2.0 in MATH 105 or MATH 106 or MATH 107 or Math Level 5) and Reading Level 5 and Writing Level 4	4 / 4
STAT 170	Introduction to Statistics	(Minimum 2.0 in MATH 105 or MATH 106 or above or Math Level 5) and Reading Level 5 and Writing Level 4	4 / 4
Program of Study Requirements			
BUSN 118	Introduction to Business	(Reading Level 5 and Writing Level 4) or AASD 105 concurrently	3 / 3
CITF 110	Intro Computer Info Systems	Reading Level 4 and Writing Level 4	3 / 3
CITP 110	Intro to Computer Programming	Reading Level 5 and Math Level 4	4 / 4
CITW 150	Internet Literacy	Reading Level 5 and Writing Level 6	3 / 3
Credits			17 / 17

Semester II	Course Title	Prerequisites	Credit/Billing Hours
Writing Core Area - <i>Select 1</i>			
ENGL 121 (formerly WRIT 121)	Composition I	Reading Level 5 and Writing Level 6	4 / 4
Program of Study Requirements			
CITD 120	SQL Concepts	Reading Level 4 and Writing Level 4	2 / 2
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
CITW 160	Web Site Dsgn & Development I	Reading Level 5 and Writing Level 6	3 / 3
Intro 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
Credits			16 / 16
Semester III	Course Title	Prerequisites	Credit/Billing Hours
Communication Core Area - <i>Select 1</i>			
COMM 110 (formerly SPCH 110)	Oral Comm in the Workplace	(Reading Level 5 and Writing Level 6) or AASD 104 concurrently	3 / 3
COMM 120 (formerly SPCH 120)	Dynamics of Communication	Reading Level 5 and Writing Level 6	3 / 3
COMM 130 (formerly SPCH 130)	Fund of Public Speaking	Reading Level 5 and Writing Level 6	3 / 3

Program of Study Requirements			
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
Additional Computer Electives - <i>Select at least 1 course for a minimum of 3 credits</i> <i>Courses may not be duplicated.</i>			
CITF 140	Information Technology Ethics	Reading Level 5 and Writing Level 6	3 / 3
CITP 240	Advanced Software Testing	Minimum 2.0 in CITP 140 and Reading Level 5 and Math Level 4	3 / 3
CITW 165	Web Site Dsgn & Development II	Minimum 2.0 in CITW 160 and Reading Level 5 and Writing Level 6	3 / 3
CITW 180	ASP.NET Web Development	Minimum 2.0 in (CITW 160 and (CITP 150 or CITP 180)) and Reading Level 5 and Writing Level 6 and Math Level 4	4 / 4
CITW 185	PHP Web Development	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 IV	Course Title	Prerequisites	Credit/ Billing Hours
Science Core Area - <i>Select 1</i>			
BIOL 120	Environmental Science	(Reading Level 5 or AASD 105 concurrently) and Writing Level 6	4 / 6
CHEM 135	Chemistry in Society	Reading Level 5 and Writing Level 6 and Math 4	4 / 5
PHYS 120	The Art of Physics	Reading Level 5 and Writing Level 6 and (Math Level 5 or MATH 107 concurrently or MATH 109 concurrently)	4 / 5
Global Perspectives and Diversity Core Area - <i>Select 1</i>			
GEOG 200	World Regional Geography	Reading Level 5 and Writing Level 6 and Math Level 4	4 / 4
MGMT 234	Diversity in the Workplace	Reading Level 5 and Writing Level 6	3 / 3
SOCL 120	Introduction to Sociology	Reading Level 5 or AASD 105 concurrently	4 / 4
Program of Study Requirement			
CITF 260	Systems Analysis and Design	Minimum 2.0 in (CITF 110 and (CITP 110 or CITP 150)) and Reading Level 5 and Writing Level 6 and Math Level 4	4 / 4

Advanced Programming Electives - <i>Select 1</i>			
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
CITP 250	Advanced VB.NET Programming	Minimum 2.0 in CITP 150 and Reading Level 5 and Math Level 4	4 / 4
CITP 280	Advanced C#.NET Programming	Minimum 2.0 in CITP 180 and Reading Level 5 and Math Level 4	4 / 4
CITP 290	Adv JAVA Programming for Busn	Minimum 2.0 in (CITP 190 and (CITW 160 or concurrently)) and Reading Level 5 and Writing Level 6 and Math Level 4	4 / 4
Additional Computer Electives - <i>Select at least 1 course for a minimum of 3 credits</i> <i>Courses may not be duplicated.</i>			
CITD 250	Database Concepts	Minimum 2.0 in (CITF 110 and (CITP 110 or CITP 150)) and Reading Level 5 and Writing Level 6	3 / 3
CITN 120	Networking Concepts	Reading Level 4 and Writing Level 4	3 / 3
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
CITP 229	Special Topics in Programming	Determined by Section	.25-6 / .25-6
CITP 295	Programming Internship	Department Approval	3 / 3
Credits			18-22 / 19-24
Total Credits			64-69 / 65-71