

LANSING COMMUNITY COLLEGE

Computer, Engineering/Manufacturing Industrial Technologies

Curriculum Code: 1713
(Effective Fall 2018 –
Summer 2023)

IoT Specialist C.A. Pathway

The IoT Specialist curriculum prepares students for a career in an expanding field caused by the Internet of Things. IoT is the integrations of sensors, switches, actuators, voice, video, image, and data into both local and global communication networks and can be found in both the enterprise, manufacturing and residential markets. This curriculum provides extensive hands-on training and prepares students for the workforce and for professional certification exams from Cisco, CompTIA and others

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 Fall	Course Title	Prerequisites	Credit/Billing Hours
Program of Study Requirements			
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
CITS 125	Computer Support: A+ Cert Prep	Reading Level 5 and Writing Level 4 and (Math Level 3 or minimum 2.0 in MATH 105 or MATH 106)	6 / 6
CITS 170	Basic Electronic for PC Repair	Reading Level 5 and Writing Level 2 and (Math Level 4 or minimum 2.0 in MATH 105 or MATH 106)	6 / 7
Credits			16 / 17

Semester II Spring	Course Title	Prerequisites	Credit/Billing Hours
Program of Study Requirements			
CITN 115	IoT & Automation Fundamentals	Reading Level 4 and Writing Level 4	5 / 6
CITN 220 (1 st 8 weeks)	Introduction to Networks	Minimum 2.0 in CITS 125 and Reading Level 5 and Writing Level 6 and (Math Level 4 or minimum 2.0 in MATH 105 or MATH 106)	3 / 3
CITN 225 (2 nd 8 weeks)	Routing & Switching Essentials	Minimum 2.0 in (CITN 220 within 2 years or concurrently) and Reading Level 5 and Writing Level 6 and (Math Level 4 or minimum 2.0 in MATH 105 or MATH 106)	3 / 3
Credits			11 / 12
Semester III Fall	Course Title	Prerequisites	Credit/Billing Hours
Program of Study Requirements			
CITN 222	Wireless Networking & Security	Minimum 2.0 in CITS 125 and Reading Level 5 and Writing Level 6 and (Math Level 4 or minimum 2.0 in MATH 105 or MATH 106)	3 / 3
CITN 280	IT Security Foundations	Minimum 2.0 in (CITN 220 or CITS 225) and Reading Level 5 and Writing Level 6 and Math Level 3	3 / 3
Credits			6 / 6
Total Credits			33 / 35