

SMART MANUFACTURING - MECHATRONICS

Code	Title	Credit Hours
EET-1220	Circuits and Electronics for Automation	3
ISET-1301	Mechanical/Electrical Print Reading	3
MET-1120	Computer Applications and Programming	2
MET-1230	Drawing & AutoCAD	3
MET-1640	Robotics and Programmable Logic Controllers in Process Automation	5
Select one of the following:		3
ENG-1010	College Composition I	
ENG-101H	Honors College Composition I	
MATH-1530	College Algebra (or higher Approved Ohio Transfer 36 Mathematics course)	4
ISET-1320	Fundamentals of Fluid Power	2
MET-1340	Introduction to Industry 4.0 and Vision Systems	4
MET-2601	3D Solid Modeling	3
HUM-1020	The Individual in Society	3
EET-1600	Industrial Routers, Switches, and Operating Systems for Smart Manufacturing	2
ISET-2200	Industrial Motor Controls	3
MET-1410	Computer Aided Manufacturing Processes	3
DEGR-XXXX	Natural Science Elective ¹	3
PSY-1050	Introduction to Industrial/Organizational Psychology	3
ENG-2151	Technical Writing	3
EET-1620	Industrial Protocols and Machine Connectivity for Smart Manufacturing	3
MET-2450	Robotics and Automation in Smart Manufacturing	4
MET-2460	Applied Programmable Logic Controllers and Mechatronic Systems	5

¹ Recommend PHYS-1210 College Physics I for students planning to transfer.

Other Content

MATH-1140, MATH-1141, MATH-1200, MATH-1270, and MATH-1280 can no longer count towards fulfilling the college-level mathematics requirement. These courses were reclassified as developmental mathematics by the state of Ohio in 2016. Tri-C established a 5-year transitioning window for students who had completed these courses prior to 2016 to apply them

towards meeting graduation requirements, which expired in Summer 2021. It is highly recommended to see a counselor to determine the appropriate math required for your current major.