

ODE-Sinclair Credit Crosswalk: Manufacturing Technologies

Manufacturing Operations (R7)

ARTICULATED

ODE Course	Subject Code	Sinclair Course	Credit Hours	Notes
Hydraulics and Pneumatics	010225	EGR 1217: Fluid Power & Control	2	Proof of passing WebXam Score required for credit.
Industrial Robotics	176025	EGR 2252: Teach Pendant Robot Programming	3	Proof of passing WebXam Score required for credit.
N/A		ISE 1201: Introduction to Manufacturing Safety	2	MSSC - Certified Production Technician (CPT) Certification or MSSC - Introduction to Manufacturing Safety Certificate
N/A		ISE 1202: Quality Practices & Measurement for Manufacturing	2	MSSC - Certified Production Technician (CPT) Certification or MSSC - Quality Practices and Measurement for Manufacturing
N/A		ISE 1203: Manufacturing Processes & Production	2	MSSC - Certified Production Technician (CPT) Certification or MSSC - Manufacturing Processes and Production
N/A		ISE 1204: Maintenance Awareness for Manufacturing	2	MSSC - Certified Production Technician (CPT) Certification or MSSC - Maintenance Awareness for Manufacturing
N/A		ISE 1300: Fundamentals of Dimensional Metrology	3	NEW! Credit option for AY 24-25, FPS - Cole Glover, cole.glover@sinclair.edu
N/A		ISE 2240: Six Sigma: Green Belt	3	The student must supply proof of earning a Six Sigma Green Belt Credential
N/A		MET 1301: SolidWorks Basics	4	Proof of Solidworks certification required for credit.

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ODE Course	Subject Code	CTAN	Sinclair Course	Credit Hours	Notes
Digital Electronics	175007	CTEET002 - Digital Electronics	EET 1131: Digital Electronics	4	
Computer Integrated Manufacturing	175006	CTMET005 - Computer Aided Drafting and Design (CADD)	MET 1231: Introduction to Engineering Design Using 3D CAD	4	

PROFICIENCY

ODE Course	Subject Code	Sinclair Course	Credit Hours	Notes
N/A		CAM 1107: Introduction to Mechanical Drafting with CAD	3	
N/A		CAM 1108: Machine Shop Fundamentals	3	
Machine Tools	176004	CAM 1109: Fundamentals of Tooling & Machining	3	
N/A		CAM 1110: Advanced Machine Operations	3	

Metallurgy (R8)

CTAG

ODE Course	Subject Code	CTAN	Sinclair Course	Credit Hours	Notes
Plan Reading and Estimating	178019	CTCON001 - Plan Reading	CAT 1141: Reading Architectural Drawings	2	

PROFICIENCY

ODE Course	Subject Code	Sinclair Course	Credit Hours	Notes
Plan Reading and Estimating	178019	CAT 1401: Construction Cost Estimating	3	

General Tech Prep Courses for All Pathways

The following are general tech prep courses available to all pathways but often paired with courses in this pathway. These courses may be taught by academic

CTAG

ODE Course	Subject Code	CTAN	Sinclair Course	Credit Hours	Notes
Current and valid OSHA 10-hour safety card		CTS001 - Safety	CAT 1431: OSHA Construction Standards 10 Hour	1	

PROFICIENCY				
ODE Course	Subject Code	Sinclair Course	Credit Hours	Notes
N/A		BIS 1400: Customer Service	3	
N/A		MAT 1110: Math for Technologists	3	
N/A		MET 1131: Personal Computer Applications for Engineering	1	