

ODE-Sinclair Credit Crosswalk: Engineering & Science Technologies

Engineering and Design (F6)

PROFICIENCY NON-PLTW

ODE Course	Subject Code	Sinclair Course	Sinclair Course Name	Credit Hours	Notes
Plan Reading and Estimating	178019	CAT 1401	Construction Cost Estimating	3	
N/A		CAM 1107	Principles of Manufacturing	3	<i>Please note, this course credit type changed from AA to PR 20-21 AY. eLearn shell content must be completed in order to earn credit for this course.</i>
N/A		CAM 1108	Machine Shop Fundamentals	3	
~Machine Tools	~176004	CAM 1109	Fundamentals of Tooling and Machining	3	<i>Please note, this course credit type changed from AA to PR 20-21 AY. eLearn shell content must be completed in order to earn credit for this course.</i>
N/A		CAM 1110	Advanced Machine Operations	3	<i>Course syllabi and resources available to all instructors in the CAM Community on eLearn (contact your Pathway Manager for access). A student must be able to grind square and parallel to within ± 0.0004 and be able to show this ability along with a letter of support from their instructor.</i>

ARTICULATED PLTW

PLTW Course	Subject Code	Sinclair Course	Sinclair Course Name	Credit Hours	Notes
Introduction to Engineering Design	N/A	MET 1231	Introduction to Engineering Design Using 3D CAD	4	<i>This course can only be captured via PLTW with scale score of 420 or stanine of 6. Both instructor and students MUST be PLTW.</i>
Digital Electronics	N/A	EET 1198	Digital Technology	2	<i>This course can only be captured via PLTW with scale score of 420 or stanine of 6. Both instructor and students MUST be PLTW.</i>

ARTICULATED Non-PLTW

ODE Course	Subject Code	Sinclair Course	Sinclair Course Name	Credit Hours	Notes
N/A		MET 1301	*SolidWorks Basics	4	<i>Proof of Solidworks certification required for credit.</i>
N/A		ISE 2240	Six Sigma	3	NEW! Please refer to Need to Know document for additional information.
N/A		ISE 1201	Introduction to Safety	2	NEW! Please refer to Need to Know document for additional information.
N/A		ISE 1202	Quality Practices and Measurement for Manufacturing	2	NEW! Please refer to Need to Know document for additional information.
N/A		ISE 1203	Manufacturing Processes and Production	2	NEW! Please refer to Need to Know document for additional information.

PROFICIENCY						
ODE Course	Subject Code	Sinclair Course	Sinclair Course Name	Credit Hours	Notes	
N/A		CAM 1107	Principles of Manufacturing	3	Please note, this course credit type changed from AA to PR 20-21 AY. eLearn shell content must be completed in order to earn credit for this course.	
N/A		CAM 1108	Machine Shop Fundamentals	3		
-Machine Tools	~176004	CAM 1109	Fundamentals of Tooling and Machining	3	Please note, this course credit type changed from AA to PR 20-21 AY. eLearn shell content must be completed in order to earn credit for this course.	
N/A		CAM 1110	Advanced Machine Operations	3	Course syllabi and resources available to all instructors in the CAM Community on eLearn (contact your Pathway Manager for access). A student must be able to grind square and parallel to within ± 0.0004 and be able to show this ability along with a letter of support from their instructor.	
ARTICULATED						
ODE Course	Subject Code	Sinclair Course	Sinclair Course Name	Credit Hours	Notes	
N/A		MET 1301	*SolidWorks Basics	4	Proof of Solidworks certification required for credit.	
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	2	Proof of passing WebXam Score Required for Credit	
N/A		ISE 2240	Six Sigma	3	NEW! Please refer to Need to Know document for additional information.	
N/A		ISE 1201	Introduction to Safety	2	NEW! Please refer to Need to Know document for additional information.	
N/A		ISE 1202	Quality Practices and Measurement for Manufacturing	2	NEW! Please refer to Need to Know document for additional information.	
N/A		ISE 1203	Manufacturing Processes and Production	2	NEW! Please refer to Need to Know document for additional information.	
N/A		ISE 1204	Maintenance Awareness for Manufacturing	2	NEW! Please refer to Need to Know document for additional information.	
CTAG						
ODE Course	Subject Code	CTAN	Sinclair Course	Sinclair Course Name	Credit Hours	Notes
Digital Electronics	175007	CTEET002	EET 1131	Digital Electronics	5	

Computer Integrated Manufacturing	175006	CTMET005 - Computer Aided Drafting and Design (CADD)	MET 1231	Introduction to Engineering Design Using 3D CAD	4	
-----------------------------------	--------	--	----------	---	---	--

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 instructors. To see a comprehensive list of all courses available to all pathways, visit the General Course Offerings page.

PROFICIENCY

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

CTAG

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