

## 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 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>
~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 <math>\pm 0.0004</math> and be able to show this ability along with a letter of support from their instructor.</i>

#### PROFICIENCY PLTW

ODE Course	Subject Code	Sinclair Course	Sinclair Course Name	Credit Hours	Notes
N/A-Project Lead The Way (PLTW)	N/A	CAT 1161	Project Lead the Way: Introduction to Civil & Architectural Technology (CEA)	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>
N/A-Project Lead The Way (PLTW)	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 410 or stanine of 6. Both instructor and students MUST be PLTW.</i>

#### ARTICULATED

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>

CTAG						
ODE Course	Subject Code	CTAN	Sinclair Course	Sinclair Course Name	Credit Hours	Notes
Manufacturing Operations	175003	CTMET004 - Manufacturing Processes	OPT 2205	Manufacturing Processes	3	
Computer Integrated Manufacturing	175006	CTMET005 - Computer Aided Drafting and Design (CADD)	MET 1371	CAD Concepts Using AutoCAD	3	
Digital Electronics	175007	CTEET002 - Digital Electronics	EET 1131	Digital Electronics	5	
DC Electronic Circuits	175105	CTEET001 - DC Circuits	EET 1150	DC Circuits	4	
Energy Systems Management	10715	CTAE001 - Introduction to Alternative and Renewable Energy	EGV 1101	Alternate and Renewable Energy Sources	3	
Plan Reading	178019	CTCON001 - Plan Reading	CAT 1141	Architectural Blueprint Reading	2	
Computer Software	145030	CTIT005 - Intro Desktop O.S.	CIS 1107	Introduction to Operating Systems	3	
c	145030 and	CTIT011 - MS Windows Desktop OS	CIS 1510	Windows Client Operating System	3	
Network Operating Systems	145040					
Computer Software	145030 and	CTIT014 - PC Operating System/A+	CIS 2731	A+ Hardware & Software	4	
Computer Hardware	145025					

### 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 10 Hour Safety	1	