

Academy of Engineering & Advanced Manufacturing - Sequence & Prerequisites

North Carolina Career Cluster Science, Technology, Engineering and Mathematics		North Carolina Career Cluster Advanced Manufacturing		North Carolina Career Cluster Architecture and Construction		North Carolina Career Cluster Business Management and Administration	
Engineering		Advanced Manufacturing		Construction		Business	
Project Management I CTE - Honors	9th No Prerequisites Class Cap 30 students	Project Management I CTE - Honors	9th No Prerequisites Class Cap 30 students	Project Management I CTE - Honors	9th No Prerequisites Class Cap 30 students	Project Management I CTE - Honors	9th No Prerequisites Class Cap 30 students
^~ IED - Introduction to Engineering Design AP/Honors - PLTW	9th, 10th Prerequisites (Project Mgt. I) Class Cap 22 students	^~ IED - Introduction to Engineering Design AP/Honors - PLTW	9th, 10th Prerequisites (Project Mgt. I) Class Cap 22 students	Core & Sustainable Construction CTE - Honors	9th, 10th Prerequisites (Project Mgt. I) Class Cap 22 students	Principles of Business & Finance CTE - Honors	9th, 10th Prerequisites (Project Mgt. I) Class Cap 22 students
^~ POE - Principles of Engineering AP/Honors - PLTW	10th, 11th, or 12th Prerequisites IED and Math I Class Cap 22 students	^~ POE - Principles of Engineering AP/Honors - PLTW	10th, 11th, or 12th Prerequisites IED and Math I Class Cap 22 students	Carpentry - 1 CTE - Honors	10th, 11th, or 12th Prerequisites (Core) Class Cap 22 students	Entrepreneurship I CTE - Honors	10th, 11th, or 12th Prerequisites (Principles of Business & Finance) Class Cap 22 students
*^~ DE Digital Electronics AP/Honors - PLTW	10th, 11th, or 12th Prerequisites (IED & POE) Class Cap 22 students	Advanced Manufacturing I Manual Mill & Lathe	10th, 11th, or 12th Prerequisites (IED & POE) Teacher Approval	*Carpentry - 2 CTE - Honors	10th, 11th, or 12th Prerequisites (Core & Carpentry I) Class Cap 22 students	*Entrepreneurship II CTE - Honors	10th, 11th, or 12th Prerequisites (Entrepreneurship I) Class Cap 22 students
*^~ CIM - Computer Integrated Manufacturing AP/Honors - PLTW	10th, 11th, or 12th Prerequisites (IED & POE) Class Cap 22 students	Advanced Manufacturing II CNC Mill & Lathe	10th, 11th, or 12th Prerequisites (Adv. Manuf. I) Teacher Approval				
Engineering Design & Development ^ (Engineering Based) Honors - PLTW	11th, or 12th Prerequisites (IED, POE, DE or CIM)) Teacher Approval	*Engineering Design & Development ^ (Manufacturing Based) Honors - PLTW	11th, or 12th Prerequisites (IED, POE, AM I and AM-II) Teacher Approval				
*NCDPI Completer Course ^ CTE - A.P. Course (PLTW) ~ PLTW Completer Course This pathway meets all requirements for CMS, CTE, NCDPI, PLTW, AoE, and NAF as a completed pathway		*NCDPI Completer Course ^ CTE - A.P. Course (PLTW) ~ PLTW Completer Course This pathway meets all requirements for CMS, CTE, NCDPI, PLTW, AoE, and NAF as a completed pathway		*NCDPI Completer Course ALL CTE Courses can be Honors This pathway meets all requirements for CMS, CTE, and NCDPI completed pathway		*NCDPI Completer Course ALL CTE Courses can be Honors This pathway meets all requirements for CMS, CTE, and NCDPI completed pathway	
Credentials		Credentials		Credentials		Credentials	
PLTW NAF OSHA 10 Autodesk Inventor Microsoft Office Project Mgt. Career Readiness WorkKeys		PLTW NAF MSSC NIMS Microsoft Office HAAS CNC OSHA 10 Project Mgt. Career Readiness WorkKeys		NCCER OSHA 10 Project Mgt. Career Readiness WorkKeys		Microsoft Office Project Mgt. Career Readiness WorkKeys	

Acronym(s)	
IED - Introduction to Engineering Design CIM - Computer Integrated Manufacturing CEA - Civil Engineering & Architecture AM-I - Advanced Manufacturing -1 PLTW - Project Lead The Way NAF - National Academy Foundation METS - School of Math Engineering Technology & Science	POE - Principles of Engineering DE - Digital Electronics Engineering EDD - Engineering Design & Development AM-II - Advanced Manufacturing -2 CTE - Career & Technical Education AoE - Academy of Engineering