

PRE-ENGINEERING PROGRAM

CTE COURSE SEQUENCE	
FOUNDATIONAL (9TH & 10TH)	TECHNICAL (11TH & 12TH)
 ☐ Technical Drafting 1 & 2 - M ☐ Principles of Engineering - M ☐ Introduction to Engineering Design - M 	 □ Technical Drafting 3 & 4 - M □ Digital Electronics - M □ 3D Solid Modeling - M □ Civil Engineering & Architecture - M
ACADEMIC ELECTIVE CREDITS: S = SCIENCE M = MATH LA = LANGUAGE ARTS SS = SOCIAL STUDIES	
ACADEMIC RIGOR	EARLY COLLEGE CREDIT OPTIONS COLLEGE CREDITS
□ Pre-Calculus with Trigonometry□ Chemistry□ Physics	DUAL ENROLLMENT ☐ Technical Drafting 1 1 cr ☐ Technical Drafting 2 1 cr
STUDENT ORGANIZATION (CTSO)	Technical Drafting 3 & 4 3 cr
☐ Skills USA	AP (WITH PASSING SCORE ON AP EXAM) AP Calculus AP Biology AP Chemistry AP Physics
CERTIFICATION	
☐ AutoCAD ☐ SolidWorks (CSWA) ☐ Inventor, Revit	



MAPPING YOUR 4-YEAR PLAN* 10TH GRADE 9TH GRADE **CREDITS CREDITS** ☐ Principles of Engineering - M ☐ Introduction to Engineering Design - M 1 cr 1 cr ☐ Technical Drafting 1 - M .5 cr Algebra 1 1 cr ☐ Technical Drafting 2 - M .5 cr English 1 1 cr ☐ Geometry 1 cr Biology 1 cr ☐ English 2 1 cr .5 cr Civics ☐ Physical Science 1 cr Health .5 cr ☐ World History 1 cr □ PE 1 cr 11TH GRADE 12TH GRADE **CREDITS CREDITS** ☐ Digital Electronics ☐ Civil Engineering and Architecture - M 1 cr OR 3-D Solid Modeling - M ☐ Cooperative Work Experience 1 cr 1 cr ☐ Technical Drafting 3 - M ☐ Algebra 2 .5 cr 1cr ☐ Technical Drafting 4 - M ☐ English .5 cr 1 cr ☐ Science Algebra 2 1 cr 1cr English ☐ U.S. History 1 cr 1 cr Science 1 cr U.S. History 1 cr **STACKABLE CREDENTIALS & DEGREES*** HIGH SCHOOL **COLLEGE** ☐ Associate of Applied Science in Construction Management ■ Dual Enrollment Bachelor of Science in Construction Management ☐ Academic AP ☐ Bachelor of Science in Engineering INDUSTRY CERTIFICATION (Civil, Electrical, Mechanical, Chemical) ☐ AutoCAD ☐ SolidWorks (CSWA) ■ Inventor, Revit **APPRENTICESHIP MILITARY** □ Trade Unions ■ U.S. Armed **Forces** ☐ Private Entity *Listed Certifications, Apprenticeships and College Degree Programs represent a SAMPLE of available credentials. Available credentials are subject to change due to industry and postsecondary institution changes.