

Career Pathway: Engineering

Plan of Study: Architecture & Engineering Focus



Diploma: Lakeland Leading EDGE Core 40 with Academic Honors and Technical Honors

Career Goal: Engineer (all types), Architect, Safety Inspector, Drafter, Cost Estimator, Surveying & Mapping Technician, Interior Designer, Urban Planner

High School	Grade	English/ Language Arts	Math	Science	Social Studies	Other Required Courses	Additional Recommended Courses	Career Pathway Career & Technical Courses
	9	English 9	Geometry (or Algebra I)	Biology I	Geography	PE I and PE II Media Communications Foreign Language I		PLTW Introduction to Engineering Design (Dual Credit)
	10	English 10	Algebra II Honors (or Geometry)	Chemistry	World History	Foreign Language II Fine Arts Course	Introduction to Housing and Interior Design	PLTW Principles of Engineering (Dual Credit)
	11	AP Language & Composition or other English Course	Pre-Calculus or other math course	Biology II	US History / Government	Foreign Language III	Physics Landscape Management I Horticulture Science	PLTW Civil Engineering and Architecture (Dual Credit)
College Placement Assessments (SAT, ACT, etc.) and Academic Career Advisement								
12	AP Literature & Composition or other English Course	Probability & Statistics or AP Calculus		Economics	Community Service Senior Project	Professional Career Internship IMPACT Institute - CAD Drafting		PLTW Engineering Design and Development

Occupations Relating to This Career Pathway

Occupations requiring postsecondary education	Bachelor Degree Required
<ul style="list-style-type: none"> ▶ Building Code Official ▶ Code Official ▶ Cost Estimator ▶ Drafter ▶ Environmental Designer ▶ Safety Director ▶ Specification Writer ▶ Surveying and Mapping Tech 	<ul style="list-style-type: none"> ▶ Architect ▶ Building Designer ▶ Civil Engineer ▶ Electrical Engineer ▶ Electronic Engineer ▶ Environmental Engineer ▶ Landscape Architect ▶ Industrial Engineer ▶ Materials Engineer ▶ Mechanical Engineer ▶ Structural Engineer ▶ Interior Designer