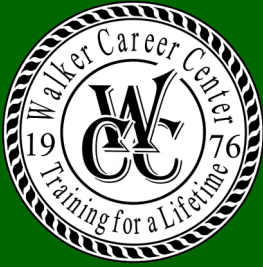


# PROJECT LEAD THE WAY PRE-ENGINEERING



IMAGINE

DREAM

EXPERIENCE

ACHIEVE

- ◆ *Imagine getting paid to play and create with the next generation of cool gadgets*
- ◆ *Imagine being challenged in a hands on, high tech environment while solving real-world problems*
- ◆ *Imagine feeling pride in finding solutions to make our world a better place*

Dual College Credit Available

## CAREER FOCUS

Prepare for further education, internship and scholarship opportunities in engineering.

*Careers in this field are listed in the Hoosier Hot 50 jobs!*

[www.wcc.warren.k12.in.us](http://www.wcc.warren.k12.in.us)

### CAREER CLUSTERS



BUSINESS AND  
INFORMATION  
TECHNOLOGY



COMMUNICATION  
AND  
THE ARTS

ENGINEERING  
AND TECHNOLOGY  
EDUCATION



HEALTH AND  
LIFE  
SCIENCES



HUMAN AND  
GOVERNMENT  
SERVICES



## Project Lead the Way (PLTW) Pre-Engineering

Ready for a career in engineering? PLTW will introduce you to the life of an engineer. Students will study engineering, design and principles and then they can specialize in Civil Engineering and Architecture (CEA), Digital Electronics (DE) or Computer Integrated Manufacturing (CIM). Taking all the courses in the sequence will give students a good foundation for their engineering training in college.

# Indiana College and Career Pathways

## Career Pathway: Manufacturing and Logistics

Indiana Career Cluster: Engineering

Core 40 High School Graduation Plan

S E C O N D A R Y	YR	English/ Language Arts	Math	Science	Social Studies PE	Courses for Engineering Pathway		Additional Elective Courses
	9	English 9	Algebra I	Biology	Physical Ed	Preparing for College and Careers/Personal Financial Responsibility	Introduction to Engineering (IED)	Core 40 Directed Elective
	10	English 10	Geometry	Core 40 Physical Science	Geography/History of the World or World History/ Civilization	Health/ Core 40 Directed Elective	Principles of Engineering (POE)	Core 40 Directed Elective
	11	English 11	Algebra II	3 <sup>rd</sup> Core 40 Science Course	US History	Core 40 Directed Elective	Computer Integrated Manufacturing (CIM), Digital Electronics (DE), Civil Engineering and Architecture (CEA) <b>Must complete at least one of the 3 courses</b>	Core 40 Directed Elective
	12	English 12	Math or Quantitative Reasoning	Core 40 Directed Elective	Government/ Economics	Core 40 Directed Elective		Core 40 Directed Elective

### Postsecondary Plan

P O S T S E C O N D A R Y	<b>Occupations related to this pathway include:</b> Civil Engineer, Architect, CAD/CAM Operator, Mechanical Engineer, Electrical Engineer, Manufacturing Production, Engineering Consultant, Teacher
	<b>Career Goal:</b>
	<b>Post Secondary Plans:</b> Job _____ Apprenticeship _____ Military Branch _____ College/University _____ (Check which area you plan to enter upon graduation from high school.)
	<b>Dual Credit and Certifications:</b> IED-ADMF103 Graphic Communication for Manufacturing (3 credits); POE-ADMF115 Materials and Processes for Manufacturing (3 credits); CEA—DESN105 Architectural Design I (3 credits); CIM—ADMF116 Automation and Robotics in Manufacturing (3 credits) ; DE-ADMF 113 Electrical and Processes for Manufacturing (3 credits) —Ivy Tech Community College