

# YOUR DOOR TO THE FUTURE



**ENGINEERING**  
(PROJECT LEAD THE WAY)

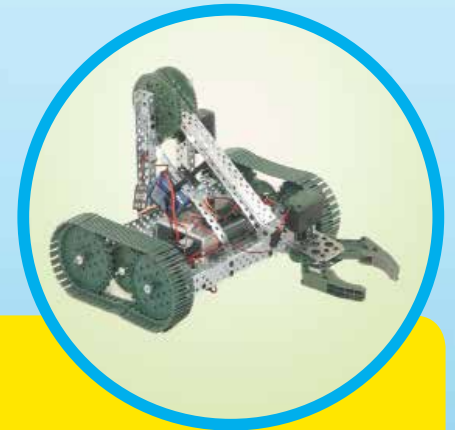
LA PORTE COUNTY **CAREER**  
& **TECHNICAL EDUCATION**  
A.K. SMITH CAREER CENTER

# Engineering (PLTW)

Lead the way with a career in Engineering and Technology!



There is a critical shortage of engineers and engineering technologists entering the field at a time when technology is reinventing itself every few years. Engineering courses in Career and Technical Education provide students with an opportunity to explore the world of engineering and engineering technology while gaining valuable skills that transfer to any career. PLTW courses introduce students to the scope, rigor and discipline of engineering and technology prior to entering college. Students receive training in current technology using the latest computer software and equipment used in industry. Students also participate in hands-on, team activities.



## INDIANA COLLEGE AND CAREER PATHWAY PLAN – STATE MODEL

Career Cluster: **MANUFACTURING** Pathway: **ENGINEERING**

**Core 40 with Honors High School Graduation Plan:** This is a **SAMPLE** plan for schools to use in planning.

Course sequences and grade level in which courses are offered may vary according to local policies, practices and resources.

Students should enroll in Indiana Career Explorer, complete interest inventories, and investigate careers in clusters and pathways prior to or during the time they create their individual Pathway Plans.

## S E C O N D A R Y

YR	English/ Language Arts	Math	Science	Health/PE Social Studies	CTE/Career Preparation Courses for this Pathway		Additional Elective Courses
9	English 9	Algebra I	Biology	Health & Wellness/ Physical Ed.	** Introduction to Engineering Design	Preparing for College & Careers	Computer Applications Personal Financial Responsibility World Language
10	English 10	Geometry	Chemistry	Geography/History of the World or World History/Civilization	** Principles of Engineering		World Language
11	English 11	Algebra II	3rd Core 40 Science	US History	<b>** CHOOSE ONE OF THE THREE FOLLOWING COURSES: Civil Engineering &amp; Architecture; Computer Integrated Manufacturing; Digital Electronics</b>		World Language
12	English 12	Math or Quantitative Reasoning		Government Economics	Engineering Design and Development		Fine Arts

**State specified Pathway Assessments:** National ECA

**Industry Recognized Certification:** Autodesk Inventor Certified User, Autodesk Inventor Certified Associate, Autodesk Inventor Certified Professional

## P O S T S E C O N D A R Y

### Courses Aligned for Potential Dual Credit \*\*

\*\* See individual Course Frameworks for alignment of high school course standards and postsecondary course objectives

#### Ivy Tech Community College

- ADMF 103 - Graphic Communications for Manufacturing OR
- DESN 104 - Mechanical Graphics
- ADMF 116 - Automation & Robotics in Manufacturing I
- DESN 105 - Architectural Design I

#### Vincennes University

- BIOT 107 - Human Body Systems
- EECT 112 - Digital Fundamentals
- DESN 101 - Intro to Design Technology

#### PNC credits in progress

College Credits are granted at the discretion of the college, students must meet the college requirements for credits.