PROJECT LEAD THE WAY

COURSE	CREDIT	OPEN TO	PREREQUISITE
Introduction to Engineering Design (IED)	1.0	9-12	None
Honors Principles of Engineering (POE)	1.0	10-12	IED, or department recommendation
Advanced Computer Integrated Manufacturing (CIM)	1.0	10-12	Honors POE, or department recommendation

INTRODUCTION TO ENGINEERING DESIGN (IED)	Using state-of-the-art 3D design software, discover the role of an engineer in taking an idea from the
Prerequisite: None Open to: Grades 9-12 Length: 2 semester Credits: 1.0	design process to product testing to manufacturing or production. Produce an incredible, working prototype of your project with a 3D printer. You will work on projects, activities, and problems not only of interest to you, but that have global and human impacts. Work in teams to design and improve products,
Course Number: IT1000	document your solutions, and communicate them to others.

HONORS PRINCIPLES OF ENGINEERING (POE) Prerequisite: IED or department recommendation Open to: Grades 10-12 Length: 2 semesters Credits: 1.0 (Honors credit) Course Number: IT2200	In the second course in the PLTW series, through problems that engage and challenge, students will explore a broad range of engineering topics, including mechanisms, the strength of structures and materials, and automation. Students will develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation.
ADVANCED COMPUTER INTEGRATED	Manufactured items are part of your everyday life,
MANUFACTURING	yet most people have not been introduced to the
(CIM)	high-tech, innovative nature of modern
Prerequisite: Honors POE, or department	manufacturing. This course illuminates the
recommendation	opportunities related to understanding
Open to: Grades	manufacturing. You will learn about manufacturing

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opportunities related to understanding
manufacturing. You will learn about manufacturing
processes, product design, robotics, and automation.
Students can earn a virtual manufacturing badge
recognized by the National Manufacturing Badge
system.



Length:

Credits: 1.0 (Advanced Level Credit)

Course Number: IT3200