Department of Teaching and Learning
Career and Technical Education
Course Information

PLTW Engineering Design and Development Honors
Course Credit: 1.0
Course Code: 898902
Grades: 12

Counselors are available to assist parents and students with course selections. Families may arrange to meet with counselors by contacting the school's counseling department.

COURSE DESCRIPTION
The knowledge and skills students acquire throughout PLTW Engineering come together in Engineering Design and Development as they identify an issue and then research, design, and test a solution, ultimately presenting their solution to a panel of engineers. Students apply the professional skills they have developed to document a design process to standards, completing Engineering Design and Development ready to take on any post-secondary program or career.

This course counts as an elective credit.

COURSE COMPETENCIES
Course competencies can be found in the Curriculum Guides section.

PREREQUISITE
PLTW Civil Engineering and Architecture Honors

WORK-BASED LEARNING EXPERIENCE
Externship

CREDENTIAL
Students are eligible to sit for the following credential:
None

CAREER AND TECHNICAL STUDENT ORGANIZATION (CTSO)
Technology Student Association (TSA) provides the application and integration of science, technology, engineering, and mathematics (STEM) concepts through co-curricular instruction, leadership development, competitive events and related programs.

BENEFITS OF CAREER AND TECHNICAL STUDENT ORGANIZATIONS INCLUDE:

- Provides a hand-on approach to learning
- Refines career objectives through realistic experiences
- Promotes awareness of new career opportunities
- Develops skills and responsibilities for being a role model and mentor
- Cultivates social development and awareness
- Develops a sense of community and volunteerism
- Develops an appreciation and understanding for cultural diversity
- Improves communication and decision-making skills
- Provides for personal development
- Develops interpersonal and leadership skills
- Develops responsibility and self-confidence
- Provides opportunities for recognition

LAB FEE

There is no lab fee for this course.