Students as individuals or as members of an engineering team, apply science, technology and mathematical concepts and skills to solve engineering design problems or to significantly innovate existing products. Students research, develop, test, and analyze designs using criteria as cost, effectiveness, safety, human factors, and ethics. Students have regular interactions with, and presentations to members of industry. Students learn Project Management as they schedule and complete their tasks. Mid-course presentations keep students on track. Capstone students meet and learn from industry contacts.

**Topics Covered**

- Solve engineering design problems or to significantly innovate existing products.
- Students research, develop, test, and analyze designs using criteria as cost, effectiveness, safety, human factors, and ethics.
- Students have regular interactions with, and presentations to members of industry.
- Students learn Project Management as they schedule and complete their tasks.

**Location**
Granite Technical Institute
2500 S. State St.

**Transportation**
School bus available to & from GTI

**Grade Level**
12th grades

**Pre-Requisites**
CAD Mechanical Design 2 and Engineering Principles 2

**Class Times**
2-period Block

**Credits**
1.0 CTE, Elective, College Credit available SUU (CCET 2620)

**Length**
Semester

**Fees**
Lab fees required. Fee waivers available for qualifying students at their home high school.

*Granite School District does not discriminate on the basis of race, color, sex, pregnancy, religion, national origin, marital status, disability, sexual orientation, gender identity, age, or any other legally protected classification in educational programs, activities, or access to facilities.*