

Manufacturing Engineering II



Prerequisite: Manufacturing Engineering I

Course: 1805CT

Credits: 1

Length: 18 weeks

Placement: 10-12

Course Description

In Manufacturing Engineering Technology II, students will gain knowledge and skills in the application, design, production, and assessment of products, services, and systems and how those knowledge and skills are applied to manufacturing. The study of Manufacturing Engineering Technology II will allow students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings. The main project for this class will be designing and building a new solar car chassis.

Student Activities

Students will be instructed in advanced skills in the following areas:

- Shielded Metal Arc Welding (SMAW)
- Gas Metal Arc Welding (GMAW)
- Flux Cored Arc welding (FCAW)
- Gas Tungsten Arc Welding (GTAW)
- Oxy-Acetylene Cutting and Welding
- Plasma Cutting
- Project Design and Fabrication
- Working individually and in groups
- Employability and Careers in Manufacturing

Certifications

Amateur Ham Radio

Student Cost: \$7.50 BBIA Cost: \$7.50

Additional Considerations

Students need fine motor skills and mobility. Students handle sharp objects and use dangerous equipment. If seeking certification, curriculum cannot be modified.

Organizations/After School/Competition



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