

STEM ENGINEERING & MANUFACTURING STRAND

This course is designed for students interested in pursuing careers within the vast STEM fields, with an emphasis on STEM careers within engineering and manufacturing. Students will interact with professional engineers and manufacturers, learn lean manufacturing processes, explore all careers in engineering and manufacturing, and work alongside professionals on real-world, hands-on projects to create value for customers. The development of professional soft skills will be a focus throughout the year. Students attend class at EFCO Corporation.

topics

- Introduction of engineering disciplines
- Engineering & technical education
- Options Design process
- Agile/scrum
- Professional project management
- Supply chain
- Logistics
- Lean & continuous improvement
- 5S
- OSHA safety
- Metal forming & fabrication
- Injection molding
- Precision assembly
- Robotics & industrial automation
- Business financial literacy

potential careers

- Architect
- Biomedical Engineer
- Chemical Engineer
- Civil Engineer
- CNC Programmer
- Electrical Engineer
- Environmental Engineer
- Fabrication & Assembly Tech
- Industrial Automation Tech
- Industrial Engineer
- Industrial Maintenance Tech
- Logistics & Distribution
- Manufacturing Engineer
- Mechanical Engineer
- Multi-axis Machine Tech
- Plant Manager
- Plastics Engineer
- Production Supervision
- Quality Engineer
- Supply Chain Management
- Tool & Die Maker
- Welder



students get to

Discover passions and develop professional skills

Gain exposure to the workplace through job-shadowing and facility tours

Dive deeper into high demand/high skill careers

Learn directly from business professionals

strands



Agribusiness & Food Systems



Business & Technology



Medicine & Healthcare



Teacher Education



STEM

credits

3 Practical Arts

1 Embedded English

DUAL CREDIT OPTIONS AVAILABLE



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