

PRACTICUM IN STEM

CAREER CLUSTER: SCIENCE, TECHNOLOGY, ENGINEERING & MATH (STEM)

STATEWIDE PROGRAM OF STUDY: ENGINEERING

Course	Credits	Class Periods	Grade	Location
Principles of Applied Engineering	1.0	1	8-12	Home Campus
Engineering Design & Presentation <i>Prerequisites: Algebra I and Principles of Applied Engineering</i>	1.0	1	9-12	Home Campus
Practicum in STEM <i>Prerequisites: Principles of Applied Engineering and Engineering Design & Presentation and Geometry</i>	2.0	2	12	MCTC

CERTIFICATION OPPORTUNITY

• Auto Desk Inventor

CAREER POSSIBILITIES

- Aerospace Engineer
- Chemical Engineer
- Civil Engineer
- Environmental Engineer
- Hydraulics
- Structural Engineer



8660V PRACTICUM IN STEM

Grade: 12 2 Credits

Prerequisites: Principles of Applied Engineering and Engineering Design & Presentation and Geometry

This course builds upon engineering foundations and increases understanding of the overall design process in a classroom and workplace environment. Major emphasis is placed on projects as they relate to the business world, including its process, key definitions, budgets, schedules, and presentations. Projects are team-based involving cross-functional disciplines (architectural, project management) to derive cohesive solutions. Students may have the opportunity to gain field experience through field trips, guest speakers, and job shadowing.



PROGRAM EXPERIENCES

MCTC provides students with a true experience and understanding of the profession. The course content focuses on real-life applications of engineering, both in lesson content and project work.

Students are provided a fun but realistic familiarity on the requirements, time commitment, and dedication it takes to pursue a career in engineering. Once completed with these courses, students should be able to make a sound and educated decision in their future careers in this industry.

EXPECTATIONS OF STUDENTS

- Maintain self motivation.
- Demonstrate the ability to be a flexible team player.
- Demonstrate excellent verbal and written communication skills.
- Exhibit a willingness to share creative ideas.