

Montclair High School

Course Syllabus

Department: 21st Century Skills

Course: Robotics 2 & 3

Level: HH

Credits: 5.0

Course Description:

This class will provide a lab environment for the Mechanical/Electrical aspects of building robots. Advanced Machine shop and Introduction to welding will be one of the main focuses. Students will design and build robots for competitions in both FIRST Tech Challenge and FIRST Robotics Competition. (ROBO 1 or completion of 1 season on FRC Team needed prior to taking this class).

Standards:

9.3.12.M3.(1-6)

Anchor Text(s):

[Online Manual](#)

Supplementary Materials:

Online notes available for students

Units of Study:

Advanced Electrical Wiring, Welding and Fabrication

Proficiencies:

By the end of this course, students will:

- Students focused on Electricity will be able to wire up complete robot
- Students focused on Build will be able to design and build robot chassis/assemblies

Evaluation & Assessment:

- Home Work 10%
- Lab Work 50%
- Workmanship 30%
- Test/Quiz 10%