

Practicum in Science, Technology, Engineering and Mathematics

Scope and Sequence

Course Description:

This course allows students to apply science, technology, engineering, and mathematic concepts and principles in the classroom and the workplace. In the classroom portion of the course, students will gain knowledge of professional standards as required by business and industry. Students will also receive industry-recognized training designed to make them more marketable and desirable in the workplace. Students are required to work 10 hours per week at an approved training site and must be employed at that site within 15 school days after enrollment in the course.

- 2 Credits
- Grades 11 – 12
- Required prerequisite: Engineering Design II or Robotics II and age 16 if paid training site
- Lab fee will be required.

TEKS

Cluster: *Engineering*

Program of Study: *Engineering Foundations*

Endorsement: *STEM*

- Meets advanced course requirement (Y/N): *Yes*
- Meets foundation requirement for math, science, fine arts, English, LOTE (Y/N-area): *No*

Industry Certification/Credentials: *n/a*

| Instructional Units | Pacing |
|---|--------------|
| Employment/Employability Skills On Job Training Communication Skills | 1st Semester |
| Research Portfolio Development Professionalism | 2nd Semester |

Primary Instructional Materials: Will vary depending on workplace/field experience.