

Practicum in Science, Technology, Engineering & Math Syllabus

Course Description/Goals:

This course is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience.

Course TEKS/Objectives:

Practicum in Engineering is designed to give students supervised practical application of knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experiences such as employment, independent study, internships, assistantships, mentorships, or laboratories. To prepare for careers in engineering, students must attain academic knowledge and skills, acquire technical knowledge and skills related to the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills and technologies in a variety of settings.

<https://tea.texas.gov/academics/curriculum-standards/teks-review/127i-rule-a-dopt-with-header.pdf>

Course Outline:

Semester 1	Semester 2
<ul style="list-style-type: none">• The Engineering Design Process• OSHA Safety• Professional Skill Development and Resume writing• STEM employment Research and Preparation• Certification preparation and examinations	<ul style="list-style-type: none">• Apply STEM Skills to work-based opportunities• Creation and Presentation of a College /Career Portfolio• Certification preparation and examinations

