

Robotics II

Local Course #: 82652

State Course ID: 13037050

Course Description:

In Robotics II, students will explore artificial intelligence and programming in the robotic and automation industry. Through implementation of the design process, students will transfer academic skills to component designs in a project-based environment. Students will build prototypes and use software to test their designs. This course counts as a math credit.

Link to TEKS:

<https://tea.texas.gov/about-tea/laws-and-rules/sboe-rules-tac/sboe-tac-currently-in-effect/ch130o.pdf>

First 9 Weeks Major Topics:

Professional Conduct, Collaborative Coding, Types of manipulators

Second 9 Weeks Major Topics:

Group based design, Programming robots, types of robotic motion

Third 9 Weeks Major Topics:

Applied math in robotics, engineering design methodologies

Fourth 9 Weeks Major Topics:

Advanced robotics programming, advanced system construction