Updated: January 2024

FIRST TECH CHALLENGE

Business & Industry Endorsement
Manufacturing

Robotics and Automation Technology Program of Study

START HERE!

Course Sequence

Career Examples:
- *Machine Operator*
- *Manufacturing Maintenance Manager*
- *Plant Manager*

This this the Robotics Course Sequence. Courses within the dotted section are offered once every four years.

0928P Principles of Applied Engineering [Competition Required] [1 Credit]

Same course

0930P Robotics I [Competition Required] [1 Credit]

Same course

0929P Manufacturing Engineering Technology I [Competition Required] [1 Credit]

Same course

0935P Engineering Design and Presentation I [Competition Required] [1 Credit]

0549 & 2549 Practicum in Entrepreneurship *[2 Credits]*

and/or

0531 & 2531 Career Preparation I *[3 Credits]* *[Course Interest Form]*

and/or

STEM Endorsement
Engineering

Engineering Foundations Program of Study

START HERE!

0928P Principles of Applied Engineering [Competition Required] [1 Credit]

and/or

0930P Robotics I [Competition Required] [1 Credit]

and/or

0929P Manufacturing Engineering Technology I [Competition Required] [1 Credit]

and/or

0935P Engineering Design and Presentation I [Competition Required] [1 Credit]

and/or

0911 Introduction to Engineering Design [1 Credit]

and/or

0920 Computer Integrated Manufacturing [1 Credit]

and/or

0912 Honors Engineering Science [1 Credit] — Science Credit

and/or

0913 Honors Digital Electronics [1 Credit] — Math Credit

and/or

0446 CP / 0441 Honors Scientific Research & Design *[1 Credit]* — Science Credit

Career Examples:
- *Engineer*
- *Researcher*
- *Scientist/Chemist*

STC Associate's Degree Program

SOUTH TEXAS COLLEGE

1006 & 2006
STC Dual Enrollment Engineering Academy (DEEA)
[Meet Requirements]
[2 Yr. Commitment]

1006 & 2006
STC Dual Enrollment Engineering Academy (DEEA)
[Meet Requirements]
[2 Yr. Commitment]

Certifications Offered

1. TBD

1. Autodesk Certified User (ACU) – Inventor
2. NOCTI - Engineering Technology Foundations

Advanced Course
Pre-requisite Course Requirement
CTE Innovative Course