

PROGRAM OF STUDY:

ADVANCED MANUFACTURING & MACHINERY MECHANICS

MANUFACTURING CAREER CLUSTER



CAREER & TECHNICAL STUDENT ORGANIZATIONS:

SKILLSUSA

9TH GRADE

PRINCIPLES OF APPLIED ENGINEERING



INSTRUCTIONAL MATERIALS

TEKS-REQUIRED LAB TIME?

ONLINE INSTRUCTIONAL MATERIALS

Y / N

CERTIFICATIONS

- Precision Exams: **Engineering Principles I** (601)
- **SolidWorks** (GoEngineer) (requires high-level computer)
- **OnShape CAD** certification

10TH GRADE

ROBOTICS I



INSTRUCTIONAL MATERIALS

TEKS-REQUIRED LAB TIME?

ONLINE INSTRUCTIONAL MATERIALS

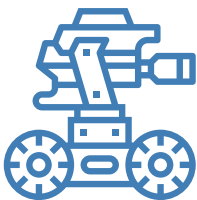
- Robotics I - VEX Curriculum
- VEX block code
- code.org

Y / N

CERTIFICATIONS

11TH GRADE

ROBOTICS II



INSTRUCTIONAL MATERIALS

TEKS-REQUIRED LAB TIME?

ONLINE INSTRUCTIONAL MATERIALS

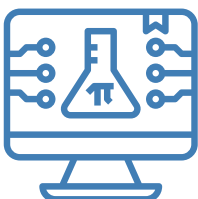
- VEX Curriculum
- VEX block code
- code.org

Y / N

CERTIFICATIONS

12TH GRADE

PRACTICUM IN STEM



INSTRUCTIONAL MATERIALS

TEKS-REQUIRED LAB TIME?

ONLINE INSTRUCTIONAL MATERIALS

Work-based learning experiences

Y / N

CERTIFICATIONS

- Precision Exams: **Engineering Technology** (615) (non-dual credit students)
- Dallas College **Advanced Manufacturing Level 1 Certificate**