## Program of Study: Advanced Manufacturing & Machinery Mechanics

### Manufacturing Career Cluster

### 9th Grade
- **Principles of Applied Engineering**
- **Instructional Materials**
- **TEKS-Required Lab Time?** Y/N
- **Online Instructional Materials**

**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?** Y/N
- **Online Instructional Materials**

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

### 11th Grade
- **Robotics II**
- **Instructional Materials**
- **TEKS-Required Lab Time?** Y/N
- **Online Instructional Materials**

**Certifications**
- VEX Curriculum
- VEX block code
- code.org

### 12th Grade
- **Practicum in STEM**
- **Instructional Materials**
- **TEKS-Required Lab Time?** Y/N
- **Online Instructional Materials**

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

Subject to change as TEKS are reviewed by the state and THECB and as the labor market dictates.