### B.S. in Mechanical Engineering

**Prerequisite or Concurrent Enrollment**
- Tarrant County College Equivalent Course
- Dallas County Community College Equivalent Course

### Mechanical Engineering - Pre-professional Courses

**C or better to pass**

#### Freshman 1st Semester
- 17 hrs
- **MAE 1104** Intro. to Eng.
- **MAE 1105** Intro. to MAE
- **MATH 1426** Calc. I
- **PHYS 1443** Tech. Phys. I with lab
- **CHEM 1465** Chem for Eng
- **ENGL 1301** Reading & Writing I

#### Freshman 2nd Semester
- 17 hrs
- **MAE 1350** Eng. Graphics
  - **ENGR 1304** (Prof. only)
- **MATH 2425** Calc. II
- **PHYS 1444** Tech. Phys. II with lab
- **MAE 1312** Eng. Statics
- **ENGL 1302** Reading & Writing II

#### Sophomore 1st Semester
- 15 hrs
- **MATH 3330** Intro. to Matrices and Linear Algebra
- **MAE 2360** Num. Anal. & Prog.
- **MATH 2326** Calc III
  - **ENGR 2304**
- **MAE 2323** Dynamics
  - **ENGR 2305**
- **MAE 2312** Solid Mechanics

#### Sophomore 2nd Semester
- 15 hrs
- **MAE 2381** Exp. Meth. & Meas.
- **MAE 3360** Eng. Analysis
- **EE 2320** Circuit Analysis
  - **ENGR 2305**
- **MAE 3310** Thermodynamics I
- **MAE 3324** Properties of Materials

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*All three GPA’s must be 2.25 or higher to progress to professional program.*