**Prerequisite** or **Concurrent Enrollment**

**Tarrant County College Equivalent Course**

- **Dallas County Community College Equivalent Course**

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**Mechanical Engineering - Professional Courses**

- **Prerequisites**
  - MAE 2360 Eng. Analysis
  - MAE 3310 Thermodyn. I
  - MAE 2323 Dynamics
  - CHEM 1465
  - MATH3330 Matrices and Linear Algebra
  - EE 2320 Circuits
  - MAE 2312 Solid Mech.
  - MAE 3324 Materials
  - MAE 2381 Exp. Meth. & Mea

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**Junior 1st Semester** 17 hrs

- MAE 2314 Fluid Mech. I
- MAE 3311 Thermodynamics II
- MAE 3318 Kin. Dyn. of Machines
- MAE 3242 Mech. Design I
- HIST 1311 U.S. History to 1865
- **HIST 1301**
- **HIST 1302**
- COMS 3302 Prof. & Tech. Communication

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**Junior 2nd Semester** 18 hrs

- MAE 3314 Heat Transfer
- MAE 3319 Dyn. Sys. Modeling & Simulation
- ECON 2305 Macroeconomics
- **ECON 2301**
- **ECON 2302**
- POLS 2311 U.S. Gov. *GOVT 2305
- **GOVE 2302**

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**Senior 1st Semester** 15 hrs

- MAE 4287 Design Project I
- MAE 4310 Auto. Control
- Tech. Elective I 3 Hrs
- MAE 4342 Mech. Design II
- MAE 3183 Meas. Lab II
- **POLS 2312**
- State & Local Gov. *GOVT 2306
- **GOVE 2301**

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**Senior 2nd Semester** 16 hrs

- MAE 4188 Design Project II
- Tech. Elective II 3 Hrs
- MAE 4344 Comp. Aided Eng.
- Tech. Elective II 3 Hrs
- ENGL Literature Elective *ENGL 23xx
- Fine Arts Elective 3 Hrs