This guide is provided to assist in planning to meet the requirements for the BSME degree as set forth in the UT Arlington undergraduate catalog. The catalog is the final authority.
**Fall 2015, Fall 2016**

B.S. in Mechanical Engineering

* Texas Common Course Number equivalents and allowed substitutions

### Professional Courses

**Admission to the professional program required.**

#### Prerequisite

- MAE 3324 Materials and MAE 2312 Solid Mechanics
- MAE 2323 Dynamics
- MAE 3360 Eng. Analysis
- MAE 3310 Thermodyn. I
- MAE 3311 Thermodynamics II
- MATH 3330 Matrices and Linear Algebra, and EE 2320 Circuits
- MAE 2381 Exp. Meth. & Mea

#### Prerequisite or Concurrent Enrollment

- MAE 2314 Fluid Mech.
- MAE 3311 Thermodynamics II
- MAE 3319 Dyn. Sys. Modeling & Simulation
- MAE 3342 Mech. Design I
- MAE 4344 Comp. Aided Eng.
- MAE 3318 Kine & Dyn
- MAE 3314 Heat Transfer
- MAE 3318 Mech. Design II
- MAE 4344 Intro. to Mfg. Eng.
- MAE 4287 Mech. Design Project I
- MAE 4342 Mech. Design II
- Tech. Elective I (3 Hrs)
- ME 3181 Mach & struct lab
- Tech. Elective II (3 Hrs)
- Tech. Elective III (3 Hrs)
- Tech. Elective III (3 Hrs)
- Tech. Elective II (3 Hrs)
- Tech. Elective III (3 Hrs)
- ME 4310 Auto. Control

**General Education Courses**

- HIST 1311 U.S. History to 1865 * HIST 1301
- COMS 2302 Prof. & Tech. Communication * see advisor
- HIST 1312 U.S. History since 1865 * HIST 1302
- HIST 1301 State & Local Gov. * GOVT 2305 or GOVE 2304
- POLS 2311 U.S. Gov. * GOVT 2305 or GOVE 2304
- Social Science Elective IE 2308
- POLS 2312 State & Local Gov. * GOVT 2306 or GOVE 2304
- ECON 2305 * ECON 2301
- Language/Phill/Culture Elective ** note 1
- Creative Arts Elective 3 Hrs ** note 1

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**Prerequisites:**

- **Junior 1st Semester (18 hrs):**
  - MAE 3242 Mech. Design I
  - MAE 3181 Math and struct lab
  - MAE 3318 Kine & Dyn
  - MAE 2334 Fluid Mech. I

- **Junior 2nd Semester (18 hrs):**
  - MAE 4344 Comp. Aided Eng.
  - MAE 3314 Heat Transfer
  - MAE 3311 Thermodynamics II
  - MAE 3319 Dyn. Sys. Modeling & Simulation

- **Senior 1st Semester (15 hrs):**
  - MAE 4287 Design Project I
  - MAE 4342 Mech. Design II
  - Tech. Elective I (3 Hrs)
  - MAE 3183 Meas. Lab II
  - MAE 4388 Design Project II

- **Senior 2nd Semester (16 hrs):**
  - Tech. Elective II (3 Hrs)
  - Tech. Elective III (3 Hrs)
  - MAE 4310 Auto. Control

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**Notes:**

1. Any UTA course which satisfies the UTA core curriculum for the Language/Phil/Culture or Creative Arts subject area is accepted for the Fall 2015 and 2016 ME degree plans. Many have TCCN equivalents. See UTA MAE advisor if needed.