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.

**Pre-professional Courses**

### Freshman 1st Semester (15 hrs)
- **UNIV 1131** or **ENGR 1101** (See note 1)
- **ENGR 1250** (or **ENGR 1251**)
- **MAE 1107** Intro. to ME
- **MATH 1426** Calc. I
- **CHEM 1465** Chem. with lab
- **ENGL 1301** Reading & Writing I

### Freshman 2nd Semester (14 hrs)
- **PHYS 1443** Tech. Phys I with lab
- **MAE 1312** Eng. Statics
- **MAE 2360** Num. Anal. & Prog.

### Sophomore 1st Semester (16 hrs)
- **MAE 2360** Eng. Design
- **MAE 2324** Struct/prop Math
- **MAE 2310** Thermo I

###Sophomore 2nd Semester (18 hrs)

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* Texas Common Course Number (TCCN) equivalents. Students may transfer all courses shown with TCCN equivalents.

**Note 1:** Students admitted as Freshmen must take UNIV 1131. Students admitted as Transfer must take ENGR 1101. TCCNS ENGR 1201 will substitute for ENGR 1101 in the ME degree plan.

**Note 2:** ENGR 1250 requires MATH 1426 or higher as corequisite. ENGR 1251 may be taken only if MATH 1421 is taken concurrently.

**Note 3:** Beginning with the Fall 2018 catalog, TCCN course numbers ENGR 2305 and ENGR 2332 will be transferred toward the ME degree plan. ENGR 2305 will substitute for EE 2320 in the ME degree plan.
## B.S. in Mechanical Engineering

### Professional Courses

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

### Junior 1st Semester
- 18 hrs
- MAE 3324 Materials and MAE 2312 Solid Mechanics
- MAE 2381 Exp. Meth. & Mea
- MAE 2323 Dynamics
- MAE 3360 Eng. Analysis
- MAE 3310 Thermodyn. I
- MAE 3319 Dyn. Sys. Modeling & Simulation
- MAE 3183 Meas. Lab II
- MAE 4310 Auto. Control

### Junior 2nd Semester
- 18 hrs
- MAE 3318 Kine & Dyn
- MAE 3313 Fluid Mech. I
- MAE 3311 Thermodynamics II
- MAE 3314 Heat Transfer
- Tech. Elective I 3 Hrs
- Tech. Elective II 3 Hrs
- Tech. Elective III 3 Hrs
- MAE 4387 Design Project I
- Tech. Elective II 3 Hrs

### Senior 1st Semester
- 15 hrs
- MAE 4344 Comp. Aided Eng.
- MAE 3318 Kine & Dyn
- MAE 3313 Fluid Mech. I
- MAE 3311 Thermodynamics II
- MAE 3183 Meas. Lab II
- MAE 4310 Auto. Control
- MAE 4342 Mech. Design I
- Tech. Elective II 3 Hrs
- MAE 4188 Design Project II

### Senior 2nd Semester
- 16 hrs
- MAE 4387 Design Project I
- MAE 4344 Comp. Aided Eng.
- MAE 3318 Kine & Dyn
- MAE 3313 Fluid Mech. I
- MAE 3311 Thermodynamics II
- MAE 3183 Meas. Lab II
- MAE 4310 Auto. Control
- MAE 4342 Mech. Design I
- Tech. Elective II 3 Hrs
- Tech. Elective III 3 Hrs

### U.S. History Elective 3 Hrs
- See note 4

### Language/Phil/Culture Elective 3 Hrs
- See note 4

### Social Science Elective 3 Hrs
- See note 4

### Creative Arts Elective 3 Hrs
- See note 4

### Note 4.

Any UTA course which satisfies the UTA core curriculum for the U.S. History, Language/Phil/Culture, and Creative Arts subject area is accepted. Many have TCCN equivalents. See UTA MAE advisor.

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* Texas Common Course Number equivalents and allowed substitutions

### General Education Courses

- COMS 2302 Prof. & Tech. Communication
- * see advisor
- U.S. History Elective 3 Hrs * See note 4
- U.S. History Elective 3 Hrs * See note 4
- POLS 2311 U.S. Gov. * GOVT 2305 or GOVT 2304
- Social Science Elective 1E 2308 or ECON 2306 *ECON 2301
- Language/Phil/Culture Elective 3 Hrs * See note 4
- Creative Arts Elective 3 Hrs * See note 4