2014-2015 B.S. in Mechanical Engineering

Name: ID: 100

* Texas Common Course Number equivalents and allowed substitutions

Mechanical Engineering - Pre-professional Courses

Freshman 1st Semester 17 hrs

- MAE 1104 Intro. to Engr.
- MAE 1105 Intro. to MAE
- MATH 1426 Calc. I
- PHYS 1443 Tech. Phys. I with lab
- CHEM 1465 Chem for Engr
- ENGL 1301 Comp I

Freshman 2nd Semester 17 hrs

- MAE 1351 Engr Graphics and Industrial Practices
- MATH 2425 Calc. II
- PHYS 1444 Tech. Phys. II with lab
- MAE 1312 Engr. Statics
- ENGL 1302 Comp II

Sophomore 1st Semester 15 hrs

- MATH 3330 Intro. to Matrices and Linear Algebra
- MAE 2360 Num. Anal. & Prog.
- MATH 2326 Calc III
- MAE 2323 Dynamics
- MAE 2312 Solid Mechanics

Sophomore 2nd Semester 15 hrs

- MAE 2381 Exp. Meth. & Meas.
- MAE 3360 Engr Analysis
- EE 2320 Circuit analysis
- MAE 3310 Thermodynamics I
- MAE 3324 Struct and Prop of Materials

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.
**2014-2015** B.S. in Mechanical Engineering

**Mechanical Engineering - Professional Courses**

* Texas Common Course Number equivalents and allowed substitutions

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### Prerequisites

- MAE 3324 Materials and Concurrent Enrollment
- MAE 2323 Dynamics
- MAE 3360 Eng. Analysis
- MAE 3310 Thermodyn. I
- MATH 3330 Matrices and Concurrent Enrollment
- EE 2320 Circuits
- MAE 2381 Exp. Meth. & Concurrent Enrollment

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#### Junior

1. **1st Semester** 17 hrs
   - MAE 3242 Mech. Design I
   - MAE 3318 Kin. Dyn. of Machines
   - MAE 3214 Thermodynamics II

2. **2nd Semester** 18 hrs
   - MAE 4344 Comp. Aided Eng.
   - MAE 3314 Heat Transfer
   - MAE 3319 Dyn. Sys. Modeling & Simulation

#### Senior

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

2. **2nd Semester** 16 hrs
   - MAE 4188 Design Project II
   - Tech. Elective II 3 Hrs
   - Tech. Elective III 3 Hrs
   - MAE 4310 Auto. Control

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**Notes:**

- MAE 3324 Materials and Concurrent Enrollment
- MAE 2323 Dynamics
- MAE 3360 Eng. Analysis
- MAE 3310 Thermodyn. I
- MATH 3330 Matrices and Concurrent Enrollment
- EE 2320 Circuits
- MAE 2381 Exp. Meth. & Concurrent Enrollment

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**Prerequisite or Concurrent Enrollment**

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* Texas Common Course Number equivalents and allowed substitutions

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**Note 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 2014 ME degree plan. Many have TCCN equivalents. See UTA MAE advisor if needed.

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**Note 2:** Language/Phil/Culture Elective

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**Note 3:** Creative Arts Elective 3 Hrs