

**KEY**

- Required coursework for Minor
- Elective coursework for Minor; select 6 credits
- Pre-requisite for Minor
- Required Prerequisite
- Preceded or accompanied by; co-requisite
- 3 Number of course credits

**\* Course requires grade of C or better**

**MINOR CREDIT HOURS: 15**  
[meen.tamu.edu](http://meen.tamu.edu)

Prerequisites

**MEEN 221\***  
 Statics & Particle Dynamics

Semester \_\_\_\_\_ Grade \_\_\_\_\_

3

PHYS 218 MATH 251

**MATH 308\***  
 Differential Equations

Semester \_\_\_\_\_ Grade \_\_\_\_\_

3

MATH 251

**ECEN 215\***  
 Prin. of Electrical Engr.

Semester \_\_\_\_\_ Grade \_\_\_\_\_

3

PHYS 208 MATH 308

**CVEN 305\***  
 Mechanics of Materials

Semester \_\_\_\_\_ Grade \_\_\_\_\_

3

MEEN 221

**MEEN 315\***  
 Prin. of Thermodynamics

Semester \_\_\_\_\_ Grade \_\_\_\_\_

3

MEEN 221 MATH 251

**MEEN 260\***  
 Mechanical Measurements

Semester \_\_\_\_\_ Grade \_\_\_\_\_

3

MEEN 221 ECEN 215

MEEN 315 MATH 308

**MEEN 357\***  
 Engr. Analysis for Mech.

Semester \_\_\_\_\_ Grade \_\_\_\_\_

3

ENGR 112 MATH 308

**MEEN 360\***  
 Mtls. & Mfg. Select. in Design

Semester \_\_\_\_\_ Grade \_\_\_\_\_

3

MEEN 222 MEEN 260 CVEN 305

Required

**MEEN 363\***  
 Dynamics & Vibrations

Semester \_\_\_\_\_ Grade \_\_\_\_\_

3

MEEN 221 MEEN 357  
MATH 308 CVEN 305

**MEEN 368\***  
 Solid Mechanics in Mechanical Design

Semester \_\_\_\_\_ Grade \_\_\_\_\_

3

CVEN 305 MEEN 357  
MEEN 360

**MEEN 475**  
 Materials in Design

Semester \_\_\_\_\_ Grade \_\_\_\_\_

3

CVEN 305 MEEN 360

Electives: Select 6 credits

**MEEN 441**  
 Design of Mech. Comp. & Systems

Semester \_\_\_\_\_ Grade \_\_\_\_\_

3

MEEN 368

**MEEN 442**  
 Computer Aided Engineering

Semester \_\_\_\_\_ Grade \_\_\_\_\_

3

MEEN 363 MEEN 368

**MEEN 444**  
 Finite Element Analysis in Mech. Engr.

Semester \_\_\_\_\_ Grade \_\_\_\_\_

3

MEEN 357 MEEN 368

**MEEN 448**  
 Fund. of Nondestructive Testing

Semester \_\_\_\_\_ Grade \_\_\_\_\_

3

MEEN 360

**MEEN 460**  
 Corrosion Engineering

Semester \_\_\_\_\_ Grade \_\_\_\_\_

3

MEEN 360

**MEEN 467**  
 Mechanical Behavior of Materials

Semester \_\_\_\_\_ Grade \_\_\_\_\_

3

MEEN 360

**MEEN Minor-Design & Simulation of Mechanical Systems**

-3.5 Minimum Overall GPA  
 -Minimum 6 hours at 300-400 level



**Minor Field of Study Application**

**Department/Program:** Mechanical Engineering  
**Minor Track:** Design & Simulation of Mechanical Systems

**College:** Engineering

Student's Name: \_\_\_\_\_ Major Department: \_\_\_\_\_

UIN: \_\_\_\_\_

**Summary:** A total of 15 credit hours listed as Minor Coursework will constitute a minor in Mechanical Engineering. A grade of "C" or better is required for any course to be used for the minor.

**Entrance Requirements:** A minimum GPA of 3.5; student must declare minor between their fourth (4th) and seventh (7th) semesters at TAMU.

**Prerequisite Course Work:** Pre-requisites of required and elective courses must be satisfied (**C or better**) even if not counting toward degree or minor.

**Minor Coursework:**

**Required:** 9 Credit Hours:

- **MEEN 363- Dynamics & Vibrations.** Pre-requisites: MEEN 221 & MATH 308; Co-requisites: MEEN 357 & CVEN 305
- **MEEN 368- Solid Mechanics in Mechanical Design.** Pre-requisite: CVEN 305; Co-requisites: MEEN 357 & MEEN 360
- **MEEN 475- Materials in Design.** Pre-requisites: MEEN 360 & CVEN 305

**Elective:** 6 Credit Hours: Students may select any two of the following. Students must meet pre-requisites and co-requisites for each of these courses before enrolling.

- **MEEN 441 – Design of Mechanical Components and Systems.** Prerequisite: MEEN 368 or approval of instructor.
- **MEEN 442 – Computer Aided Engineering.** Prerequisite: MEEN 363 and MEEN 368.
- **MEEN 444 – Finite Element Analysis in Mechanical Engineering.** Prerequisite: MEEN 357 and MEEN 368 or equivalents.
- **MEEN 448 – Fundamentals of Nondestructive Testing.** Prerequisite: MEEN 360.
- **MEEN 460 – Corrosion Engineering.** Prerequisite: MEEN 360 or equivalent.
- **MEEN 467 – Mechanical Behavior of Materials.** Prerequisite: MEEN360.

I, hereby request approval to acquire a minor field of study from the department of Mechanical Engineering under the rules of the University and the Dwight Look College of Engineering.

Student's Signature: \_\_\_\_\_ Date: \_\_\_\_/\_\_\_\_/\_\_\_\_

\_\_\_\_\_  
Department of Mechanical Engineering Authorization; Undergraduate Advisor Signature;

\_\_\_\_\_  
Major Department Authorization

\_\_\_\_\_  
Date entered in Compass by Major Dept.

\*Any/all course substitutions must be approved by the Department of Mechanical Engineering