

Year 1

16 hrs.

**ENGR 111\*** <sup>2</sup>  
Foundations of Engr. I

MATH 151

**MATH 151\*** <sup>4</sup>  
Engineering Math I

**PHYS 218\*** <sup>4</sup>  
Mechanics

MATH 151

**ENGL 104\*** <sup>3</sup>  
Composition & Rhetoric

**UCC Elective** <sup>3</sup>

17 hrs.

**ENGR 112\*** <sup>2</sup>  
Foundations of Engr. II

ENGR 111 MATH 151

**MATH 152\*** <sup>4</sup>  
Engineering Math II

MATH 151

**PHYS 208\*** <sup>4</sup>  
Electricity & Optics

PHYS 218 MATH 152

**CHEM 107\*/117** <sup>4</sup>  
Gen. Chem. for Engineers/Lab

**UCC Elective** <sup>3</sup>

**KEY**

- 1<sup>st</sup> Year Engineering Coursework
- University Core Curriculum (UCC) general education electives
- Lab courses or courses with labs
- Required Prerequisite
- Preceded or accompanied by; co-requisite
- 3 Number of course credits

\* Course requires grade of C or better

Year 2

17 hrs.

**MATH 251\*** <sup>3</sup>  
Engineering Math III

MATH 152

**MEEN 225\*** <sup>3</sup>  
Engineering Mechanics

PHYS 218 MATH 251

**MEEN 222\*** <sup>3</sup>  
Materials Science

PHYS 218 CHEM 107

**MEEN 210\*** <sup>2</sup>  
Modeling for Mech. Design

ENGR 111

**UCC Elective** <sup>3</sup>

**Communication Elective: COMM 205; ENGL 203 or 210** <sup>3</sup>

15 hrs.

**MATH 308\*** <sup>3</sup>  
Differential Equations

MATH 251

**ECEN 215\*** <sup>3</sup>  
Prin. of Electrical Engr.

PHYS 208 MATH 251

**CVEN 305\*** <sup>3</sup>  
Mechanics of Materials

MEEN 225

**MEEN 315\*** <sup>3</sup>  
Prin. of Thermodynamics

MEEN 225 MATH 251

**MEEN 260\*** <sup>3</sup>  
Mechanical Measurements

MEEN 225 ECEN 215  
MEEN 315 MATH 308

**TOTAL CREDIT HOURS: 128**  
[meen.tamu.edu](http://meen.tamu.edu)

NAME: \_\_\_\_\_

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

Year 3

17 hrs.

**MEEN 357\*** <sup>3</sup>  
Engr. Analysis for Mech.

ENGR 112 MATH 308  
MEEN 210

**MEEN 363\*** <sup>3</sup>  
Dynamics and Vibrations

MEEN 225 MEEN 357  
MATH 308 CVEN 305

**MEEN 360\*** <sup>3</sup>  
Mtls. & Mfg. Select. in Dsn.

MEEN 222 MEEN 260  
CVEN 305 MEEN 210

**MEEN 361\*** <sup>1</sup>  
Mtls. & Mfg. Lab

MEEN 222 MEEN 260  
CVEN 305 MEEN 360

**MEEN 344\*** <sup>3</sup>  
Fluid Mechanics

MEEN 225 MEEN 315

**MEEN 345\*** <sup>1</sup>  
Fluid Mechanics Lab

MEEN 260 MEEN 344

**UCC Elective (ICD)** <sup>3</sup>

16 hrs.

**MEEN 368\*** <sup>3</sup>  
Solid Mech. in Mech. Design

CVEN 305 MEEN 357  
MEEN 360

**MEEN 461\*** <sup>3</sup>  
Heat Transfer

MATH 308 MEEN 344

**MEEN 464\*** <sup>1</sup>  
Heat Transfer Lab

MEEN 345 MEEN 461

**MEEN 364\*** <sup>3</sup>  
Dynamic Syst. and Control

ECEN 215 MEEN 363  
MEEN 260

**ISEN 302** <sup>2</sup>  
Econ. Anly. Engr. Project

MATH 152

**MEEN 381** <sup>1</sup>  
Seminar

**UCC Elective (ICD)** <sup>3</sup>

Year 4

15 hrs.

**MEEN 401\*** <sup>3</sup>  
Intro. to Mech. Engr. Design

MEEN 360/361 MEEN 364  
MEEN 368 MEEN 461

**MEEN 404** <sup>3</sup>  
Engineering Laboratory

MEEN 360/361 MEEN 364  
MEEN 461 MEEN 401

**MEEN Stem** <sup>3</sup>  
MEEN 421, 431, or 475

**MEEN/Non-MEEN** <sup>3</sup>  
Technical Elective

**UCC Elective** <sup>3</sup>

15 hrs.

**MEEN 402** <sup>3</sup>  
Intermediate Design

MEEN 401

**MEEN** <sup>3</sup>  
Technical Elective

**MEEN Stem** <sup>3</sup>  
MEEN 421, 431, or 475

**MEEN/Non-MEEN** <sup>3</sup>  
Technical Elective

**ENGR/PHIL 482** <sup>3</sup>  
Engineering Ethics

**UCC Elective Requirements**  
[core.tamu.edu](http://core.tamu.edu)

- POLS 206, 207
- 6 credits of American History\*\*
- 3 credits of Creative Arts\*\*
- 3 credits of Social/Behavioral Sciences\*\*

\*\*6 credits of International, Cultural Diversity (ICD) must be taken and can be fulfilled by these UCC electives

# Mechanical Engineering Suggested Graduation Timeline

Following are recommendations and a timeline of what is suggested by the Mechanical Engineering Advising Office for successful completion of a degree in 4 years.

## ***Freshman Year Expectations***

### **Curriculum:**

- Start and complete freshmen engineering coursework
- Apply to MEEN via Howdy at first opportunity

### **MEEN Ambassadors:**

- MEEN Ambassadors available in 200 MEOB to answer questions regarding the Mechanical Engineering Department and curriculum.

### **Student Responsibilities:**

- Attend Departmental Information Sessions
- Explore engineering majors
- Check own class schedule for conflicts, accuracy, or problems
- Know and use college & university resources\*
- Begin exploring clubs and organizations\*\*
- Begin researching minors, engr. certificates & career choices\*\*\*
- Career Center & Resume
- Attend Engineering Career Fairs

## ***Sophomore Year Expectations***

### **Curriculum:**

- Freshmen engineering completed
- Start MEEN core courses and finish math/physics courses with minimum of C grades
- Communication and UCC course electives

### **Advisor:**

- Advisors available in 200 MEOB to assist with:
  - Degree evaluation corrections
  - Declaring minor or certificate
  - Study Abroad
  - Academic planning/big picture
  - UCC and tech elective suggestions\*\*\*

### **Get Involved:**

- College & other clubs/organizations\*\*
- Pursue study abroad options
- Volunteer work
- Apply for Internship/Co-op
- Pursue research opportunities
- Pursue additional scholarships
- Career Center & Resume
- Attend Engineering Career Fairs
- Create and submit online degree plan
- Check degree evaluation for errors; discuss with advisor

## ***Junior Year Expectations***

### **Curriculum:**

- MEEN Core courses: min. C grade
- ISEN 302, UCC courses
- Technical elective courses
- Minor or engineering certificate
- Review graduation requirements

### **Advisor:**

- Advisors available in 200 MEOB to assist with:
  - Degree evaluation corrections
  - Declaring minor or certificate\*\*\*
  - Study Abroad
  - Academic planning/big picture
  - UCC and technical elective suggestions\*\*\*

### **Get Involved:**

- College & other clubs/organizations; accept officer position\*\*
- Study Abroad
- Volunteer work
- Apply/Complete Internship/Co-op
- Pursue research opportunities
- Pursue additional scholarships
- Career Center/Refine resume
- Attend Engineering Career Fairs
- Research post-graduate school options and take GRE
- Review FE exam materials over summer between junior/senior years
- Update and submit online degree plan
- Check degree evaluation for errors; discuss with advisor

## ***Senior Year Expectations***

### **Curriculum:**

- Finish MEEN core courses; Technical electives & UCC courses
- Minimum 2.0 Cum. GPA to graduate
- Minimum 128 total credits
- Meet with advisor during semester prior to final semester to verify all graduation requirements are met
- Apply for graduation online in Howdy at beginning of final semester

### **Advisor:**

- Advisors available in 200 MEOB to assist with:
  - Degree evaluation corrections
  - Clear degree candidates
  - Career/post graduate ideas
  - Recommendations

### **Get Involved:**

- Update online grad plan
- Attend Engineering Career Fairs
- Apply and interview for long-term employment/sign contract
- Update Career Center on long-range plans
- Pursue post-graduate school options
- Turn over clubs/organizations responsibilities to underclass members; train as needed\*\*
- Attend MEEN and TAMU graduation ceremonies
- Check degree evaluation for errors; discuss with advisor

\* 2017-2018 University Catalog - [catalog.tamu.edu](http://catalog.tamu.edu)  
MEEN curriculum and MEEN course descriptions

\*\* MEEN Student Organizations  
[engineering.tamu.edu/mechanical/academics/student-orgs](http://engineering.tamu.edu/mechanical/academics/student-orgs)

\*\*\* MEEN Student Resources/Curriculum Details  
[engineering.tamu.edu/mechanical/current-students](http://engineering.tamu.edu/mechanical/current-students)