

Year 1

16 hrs.

ENGR 111* ²
Foundations of Engr. I

MATH 151

MATH 151* ⁴
Engineering Math I

PHYS 218* ⁴
Mechanics

MATH 151

ENGL 104* ³
Composition & Rhetoric

UCC Elective ³

17 hrs.

ENGR 112* ²
Foundations of Engr. II

ENGR 111 MATH 151

MATH 152* ⁴
Engineering Math II

MATH 151

PHYS 208* ⁴
Electricity & Optics

PHYS 218 MATH 152

CHEM 107*/117 ⁴
Gen. Chem. for Engineers/Lab

UCC Elective ³

KEY

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

* Course requires grade of C or better

Year 2

17 hrs.

MATH 251* ³
Engineering Math III

MATH 152

MEEN 225* ³
Engineering Mechanics

PHYS 218 MATH 251

MEEN 222* ³
Materials Science

PHYS 218 CHEM 107

MEEN 210* ²
Modeling for Mech. Design

ENGR 111

UCC Elective ³

Communication Elective: COMM 205; ENGL 203 or 210 ³

15 hrs.

MATH 308* ³
Differential Equations

MATH 251

ECEN 215* ³
Prin. of Electrical Engr.

PHYS 208 MATH 308

ENGR 112

CVEN 305* ³
Mechanics of Materials

MEEN 225

MEEN 315* ³
Prin. of Thermodynamics

MEEN 225 MATH 251

MEEN 260* ³
Mechanical Measurements

MEEN 225 ECEN 215

MEEN 315 MATH 308

TOTAL CREDIT HOURS: 128
meen.tamu.edu

Year 3

17 hrs.

MEEN 357* ³
Engr. Analysis for Mech.

ENGR 112 MATH 308

MEEN 210

MEEN 363* ³
Dynamics and Vibrations

MEEN 225 MEEN 357

MATH 308 CVEN 305

MEEN 360* ³
Mtls. & Mfg. Select. in Dsn.

MEEN 222 MEEN 260

CVEN 305 MEEN 210

MEEN 361* ¹
Mtls. & Mfg. Lab

MEEN 222 MEEN 260

CVEN 305 MEEN 360

MEEN 344* ³
Fluid Mechanics

MEEN 225 MEEN 315

MEEN 345* ¹
Fluid Mechanics Lab

MEEN 260 MEEN 344

UCC Elective (ICD) ³

16 hrs.

MEEN 368* ³
Solid Mech. in Mech. Design

CVEN 305 MEEN 357

MEEN 360

MEEN 461* ³
Heat Transfer

MATH 308 MEEN 344

MEEN 464* ¹
Heat Transfer Lab

MEEN 345 MEEN 461

MEEN 364* ³
Dynamic Syst. and Control

ECEN 215 MEEN 363

MEEN 260

ISEN 302 ²
Econ. Anly. Engr. Project

MATH 152

MEEN 381 ¹
Seminar

UCC Elective (ICD) ³

Year 4

15 hrs.

MEEN 401* ³
Intro. to Mech. Engr. Design

MEEN 360/361 MEEN 364

MEEN 368 MEEN 461

MEEN 404 ³
Engineering Laboratory

MEEN 360/361 MEEN 364

MEEN 461 MEEN 401

MEEN Stem ³
MEEN 421, 431, or 475

MEEN/Non-MEEN ³
Technical Elective

UCC Elective ³

15 hrs.

MEEN 402 ³
Intermediate Design

MEEN 401

MEEN ³
Technical Elective

MEEN Stem ³
MEEN 421, 431, or 475

MEEN/Non-MEEN ³
Technical Elective

ENGR/PHIL 482 ³
Engineering Ethics

UCC Elective Requirements

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

* 2016-2017 University Catalog - catalog.tamu.edu
MEEN curriculum and MEEN course descriptions

** MEEN Student Organizations
engineering.tamu.edu/mechanical/academics/student-orgs

*** MEEN Student Resources/Curriculum Details
engineering.tamu.edu/mechanical/current-students