

Year 1

16 hrs. ENGR 111*² Foundations of Engr. I
MATH 151⁴ Engineering Math I
PHYS 218*⁴ Mechanics
ENGL 104*³ Composition & Rhetoric
UCC Elective³

17 hrs. ENGR 112*² Foundations of Engr. II
MATH 151⁴ Engineering Math II
PHYS 208*⁴ Electricity & Optics
CHEM 107*/117⁴ Gen. Chem. for Engineers/Lab
UCC Elective³

ENGR 111 MATH 151 MATH 151 PHYS 218 MATH 152

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
MEEN 225*³ Engineering Mechanics
MEEN 222*³ Materials Science
MEEN 210*² Modeling for Mech. Design
UCC Elective³

15 hrs. MATH 308*³ Differential Equations
ECEN 215*³ Prin. of Electrical Engr.
CVEN 305*³ Mechanics of Materials
MEEN 315*³ Prin. of Thermodynamics
MEEN 260*³ Mechanical Measurements

MATH 152 MATH 251 PHYS 218 MATH 251 PHYS 218 CHEM 107 ENGR 111 MATH 251 MATH 251 MEEN 225 MATH 251 MEEN 225 ECEN 215 MEEN 315 MATH 308

Communication Elective: COMM 205; ENGL 203 or 210

TOTAL CREDIT HOURS: 128
meen.tamu.edu

NAME: _____
JIN: _____

Year 3

17 hrs. MEEN 357*³ Engr. Analysis for Mech.
MEEN 363*³ Dynamics and Vibrations
MEEN 360*³ Mtls. & Mfg. Select. in Dsn.
MEEN 361*¹ Mtls. & Mfg. Lab
MEEN 344*³ Fluid Mechanics
MEEN 345*¹ Fluid Mechanics Lab
UCC Elective (ICD)³

16 hrs. MEEN 368*³ Solid Mech. in Mech. Design
MEEN 461*³ Heat Transfer
MEEN 464*¹ Heat Transfer Lab
MEEN 364*³ Dynamic Syst. and Control
ISEN 302² Econ. Anly. Engr. Project
MEEN 381¹ Seminar
UCC Elective (ICD)³

ENGR 112 MATH 308 MEEN 210 MEEN 225 MEEN 357 MATH 308 CVEN 305 MEEN 222 MEEN 260 CVEN 305 MEEN 210 MEEN 222 MEEN 260 CVEN 305 MEEN 360 MEEN 225 MEEN 315 MEEN 260 MEEN 344 MEEN 260 MEEN 344 MEEN 308 MEEN 344 MATH 308 MEEN 344 MEEN 345 MEEN 461 ECEN 215 MEEN 363 MATH 152 MEEN 260

Year 4

15 hrs. MEEN 401*³ Intro. to Mech. Engr. Design
MEEN 404³ Engineering Laboratory
MEEN Stem³ MEEN 421, 431, or 475
MEEN/Non-MEEN³ Technical Elective
UCC Elective³

15 hrs. MEEN 402³ Intermediate Design
MEEN³ Technical Elective
MEEN Stem³ MEEN 421, 431, or 475
MEEN/Non-MEEN³ Technical Elective
ENGR/PHIL 482³ Engineering Ethics

MEEN 360/361 MEEN 364 MEEN 368 MEEN 461 MEEN 461 MEEN 401 MEEN 401 MEEN 401

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

* 2017-2018 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