

# TEXAS A&M UNIVERSITY - MECHANICAL ENGINEERING

# 2019-2020 – Cat. #142 - REVISED

Year 1

16 hrs.

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

ENGR 102\*<sup>2</sup>  
Computation Engr. Lab I

CHEM 120\* or 107\*/117\*<sup>4</sup>  
Gen. Chem./Lab

ENGL 103 or 104<sup>3</sup>  
Comp. & Rhetoric

UCC Elective<sup>3</sup>

15 hrs.

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

ENGR 216\*<sup>2</sup>  
Mechanics Lab II

PHYS 206\*<sup>3</sup>  
Physics for Engineers I

Comm. Elective<sup>3</sup>  
COMM 205 or ENGL 203 or 210

UCC Elective<sup>3</sup>

MATH 151

MATH 151 ENGR 102

MATH 151

PHYS 206

**KEY**

- Pre-Engineering Coursework
  - University Core Curriculum (UCC) general education electives
  - Lab Course or Course with Lab Component
  - Required Prerequisite Course
  - Required Co-Requisite Course
  - Number of course credits
- \* Course requires grade of C or better

Year 2

16 hrs.

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

ENGR 217\*<sup>2</sup>  
Electricity/Mag. Lab III

PHYS 207\*<sup>3</sup>  
Physics for Engineers II

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

STAT 211\*<sup>3</sup>  
Statistics

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

MATH 152

MATH 152 PHYS 206

MATH 152 PHYS 206

PHYS 206 MATH 251

MATH 152

PHYS 206 ENGR 102

ENGR 216 PHYS 207

ENGR 216

17 hrs.

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

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

ISEN 302<sup>2</sup>  
Econ. Engr. Analysis

MEEN 305\*<sup>3</sup>  
Mechanics in Materials

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

UCC Elective<sup>3</sup>

MATH 251

PHYS 207 MATH 251

MATH 152

MEEN 225

MEEN 225 MATH 251

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

- 6 credits of POLS 206 and 207
- 6 credits of American History\*\*
- 3 credits of Creative Arts\*\*
- 3 credits of Soc./Behavioral Sciences\*\*
- 3 credits of Lang/Phil/Cult.

\*\*3 credits of International, Cultural Diversity (ICD) can be dual shared by UCC electives - [icd.tamu.edu](http://icd.tamu.edu)

\*\*3 credits of Cultural Discourse (CD) can be dual shared by UCC electives

- MEEN 260 & 404 meet University Writing requirement
- ENGR<sup>x</sup> / MEEN 399 - High Impact learning experience

Year 3

16 hrs.

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

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

MEEN 381<sup>1</sup>  
Seminar

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

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

UCC Elective<sup>3</sup>

MATH 308 MEEN 210

STAT 211 ECEN 215

MEEN 225 MATH 308

MEEN 315

MATH 308 MEEN 315

MEEN 357

17 hrs.

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

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

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

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

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

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

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

MEEN 260 MEEN 363

MEEN 210 MEEN 260

MEEN 360 MEEN 260

MEEN 305

MEEN 344

MEEN 260 MEEN 344

Year 4

16 hrs.

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

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

MEEN Thermofluids System Elective<sup>3</sup>

MEEN Mech. & Mfg. System Elective<sup>3</sup>

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

UCC Elective<sup>3</sup>

**TOTAL CREDIT HOURS:128**  
*Engineering.tamu.edu/mechanical*

MEEN 360/361 MEEN 364

MEEN 360/361 MEEN 364

MEEN 345 MEEN 461

MEEN 368 MEEN 461

MEEN 461 MEEN 401

15 hrs.

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

MEEN Technical Elective<sup>3</sup>

General Elective Any 300-499<sup>3</sup>

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

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

MEEN 401

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

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