

# TEXAS A&M UNIVERSITY - MECHANICAL ENGINEERING

# 2018-2019 – Cat. #141 - REVISED

Year 1

16 hrs.

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

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

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

ENGL 103or104<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; ENGL 203 or 210

UCC Elective<sup>3</sup>

MATH 151

MATH 151 ENGR 102

MATH 151 ENGR 216

MATH 151

PHYS 206

**KEY**

- Pre-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

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

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

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

MATH 152

MATH 152 PHYS 206

MATH 152 PHYS 206

PHYS 206 MATH 251

CHEM 107/117

PHYS 206

ENGR 102

ENGR 216 PHYS 207

ENGR 216 ENGR 217

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 222 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. - ENGR/PHIL 482

\*\*6 credits of International, Cultural Diversity (ICD) can be dual shared by UCC electives - [icd.tamu.edu](http://icd.tamu.edu)

\*\*\* Course meets University Writing requirement

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

MATH 308 MEEN 210

MEEN 225 ECEN 215

MATH 308 MEEN 315

MEEN 225 MATH 308

MEEN 357

MEEN 315

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 222 MEEN 260

MEEN 210

MEEN 222 MEEN 260

MEEN 305

MEEN 344

MEEN 260 MEEN 344

*ENGR<sup>x</sup> - High Impact learning experience*

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>

MEEN 360/361 MEEN 364

MEEN 368 MEEN 461

MEEN 360/361 MEEN 364

MEEN 461 MEEN 401

MEEN 345 MEEN 461

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>

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

MEEN 401

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

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

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