

# TEXAS A&M UNIVERSITY - MECHANICAL ENGINEERING

# 2019-2020 – Cat. #142

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		

**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
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 489* <sup>3</sup> Mechanics in Materials	MEEN 315* <sup>3</sup> Prin. of Thermodynamics	UCC Elective <sup>3</sup>
	MATH 152	MATH 152 PHYS 206 ENGR 216	MATH 152 PHYS 206 ENGR 216	PHYS 206	MATH 152	PHYS 206 ENGR 102

**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>
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	UCC Elective ICD** <sup>3</sup>
	MATH 308	STAT 211 ECEN 215 MATH 308		MEEN 225 MATH 308	MEEN 315	

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>
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 360/361 MEEN 364 MEEN 368 MEEN 461	MEEN 360/361 MEEN 364 MEEN 461			MEEN 345 MEEN 461	

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

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

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