

# TEXAS A&M UNIVERSITY - MECHANICAL ENGINEERING

## 2021 - 2022: Cat. #144

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	POLS 206 <sup>3</sup> American Govt.
15 hrs.	MATH 152* <sup>4</sup> Engineering Math II	MATH 151 ENGR/PHYS 216* <sup>2</sup> Mechanics Lab II	PHYS 206* <sup>3</sup> Physics for Engineers I	Comm. Elective ENGL 210 or 203 COMM 205 <sup>3</sup>	POLS 207 <sup>3</sup> State/Local Govt.
	MATH 151	MATH 151 ENGR 102	MATH 151		
		PHYS 206			

**Legend:**

- Red box: Pre-Engineering Coursework
- Yellow box: University Core Curriculum (UCC) general education course
- White box: Lab Course or Course with Lab Component
- Blue outline: Required Prerequisite Course
- Red outline: Required Co-Requisite Course
- 3 in circle: Number of course credits
- \* Course requires grade of C or better

Year 2

16 hrs.	MATH 251* <sup>3</sup> Engineering Math III	ENGR/PHYS 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.	MEEN 315* <sup>3</sup> Prin. of Thermodynamics	MEEN 223* <sup>2</sup> Principles of Mtls. & Mfg.	MEEN 260* <sup>3</sup> Mechanical Measurements	HIST 105 or other American History Core.tamu.edu <sup>3</sup>
	MATH 152	MATH 152 PHYS 206 ENGR 216 PHYS 207	MATH 152 PHYS 206	PHYS 206 MATH 251	MATH 152	ENGR 102
	MATH 251	PHYS 207 MATH 251	MEEN 225 MATH 251	CHEM 107/117 PHYS 206	STAT 211 ECEN 215 MATH 308 MEEN 315	

**TOTAL CREDIT HOURS: 128**  
[Engineering.tamu.edu/mechanical](http://Engineering.tamu.edu/mechanical)

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

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

Year 3

17 hrs.	MEEN 357* <sup>3</sup> Engr. Analysis for Mech.	MEEN 363* <sup>3</sup> Dynamics and Vibrations	MEEN 344* <sup>3</sup> Fluid Mechanics lecture	MEEN 345* <sup>1</sup> Fluid Mechanics Lab	MEEN 305* <sup>3</sup> Mechanics in Materials	MEEN 381* <sup>1</sup> Seminar	HIST 106 or other American History Core.tamu.edu <sup>3</sup>
15 hrs.	MEEN 360* <sup>3</sup> Materials & Mfg. Lecture	MEEN 361* <sup>1</sup> Materials & Mfg. Lab	MEEN 461* <sup>3</sup> Heat Transfer Lecture	MEEN 464* <sup>1</sup> Heat Transfer Lab	MEEN 364* <sup>3</sup> Dynamic Syst. & Contl. Lecture	MEEN 365* <sup>1</sup> Dynamic Syst. & Contl. Lab	MEEN 368* <sup>3</sup> Solid Mech. in Mech. Design
	MATH 308	MEEN 225 MATH 308 MEEN 357 MEEN 305	MATH 308 MEEN 315	MEEN 260 MEEN 344	MEEN 225 MEEN 210		
	MEEN 223 MEEN 260	MEEN 210 MEEN 260 MEEN 360	MEEN 344	MEEN 345 MEEN 461	MEEN 260 MEEN 363 ECEN 215	MEEN 260 MEEN 363 MEEN 364 ECEN 215	MEEN 305 MEEN 210

Year 4

17 hrs.	MEEN 401* <sup>3</sup> Intro. to Mech. Engr. Design	MEEN Data Sci. & Exp. Elective <sup>3</sup>	MEEN Thermofluids System Elective <sup>3</sup>	MEEN Mech. & Mfg. System Elective <sup>3</sup>	ISEN 302 <sup>2</sup> Econ. Engr. Analysis	Social Behavior Science-ICD** <sup>3</sup> Core.tamu.edu
15 hrs.	MEEN 402 <sup>3</sup> Intermediate Design	MEEN/non-MEEN Tech Elective <sup>3</sup>	General Elective Any 300-499 <sup>3</sup>	Creative Arts** <sup>3</sup> Core.tamu.edu	Lang/Phil/Cult. CD** <sup>3</sup> Core.tamu.edu	
	MEEN 360/361 MEEN 368 MEEN 364/365 MEEN 461/464				MATH 152	
	MEEN 401					

- MEEN 260 & 401 meet University Writing requirement
- ENGR<sup>x</sup> / MEEN 399 - High Impact learning experience
- \* Course requires grade of C or better
- \*\*Must have 3 credits of International, Cultural Diversity (ICD) and 3 credits of Cultural Discourse (CD) which can be dual shared with UCC electives - **core.tamu.edu**