

Mechanical Engineering Curriculum

Fall Semester			Spring Semester				
	Course Title	cr.		Course Title	cr.		
Freshman Year							
	UNST 100	University Experience	1	UNST 130	Analytical Reasoning	3	
	UNST 110	Critical Writing	3	UNST 140	African American Experience	3	
	UNST 120	Contemporary World	3	MATH 132	Calculus II	4	
	MATH 131	Calculus I	4	PHYS 241	General Physics I	3	
	GEEN 100	Engineering Design and Ethics	2	PHYS 251	General Physics I Lab.	1	
[1, 2]	GEEN 110	Colloquium I	0	[1, 2]	GEEN 120	Colloquium II	0
	MEEN 104	Engineering Graphics	2	GEEN 161	Computer Programming in MATLAB	2	
	Semester Total		15		Semester Total		16
Sophomore Year							
[7]	UNST Cluster Theme Elective		3	[7]	UNST Cluster Theme Elective	3	
	MATH 231	Calculus III	4	PHYS 242	General Physics II	3	
	CHEM 106	General Chemistry VI	3	PHYS 252	General Physics II Lab	1	
	CHEM 116	General Chemistry VI Lab	1	MEEN 360	Materials Science	3	
	MEEN 210	Analytical Methods in Engr	3	MEEN 336	Strength of Materials	3	
	MEEN 335	Mechanics I: Statics	3	MEEN 337	Mechanics II: Dynamics	3	
	Semester Total		17		Semester Total		17
Junior Year							
[7]	UNST Cluster Theme Elective		3	ELEN 440	Electrical Circuit Analysis	3	
	MATH 431	Introduction to Differential Equations	3	MEEN 403	Mechanical Engineering Lab II	1	
	INEN 260	Engineering Economics	2	[3]	MEEN 416	Fluid Mechanics	3
	MEEN 441	Fundamentals of Thermodynamics	3	MEEN 440	System Dynamics	3	
	MEEN 446	Manufacturing Processes	3	[4]	MEEN 442	Applied Thermodynamics	3
	MEEN 460	Modern Engineering Materials	3	MEEN 474	Engineering Design	3	
	Semester Total		17		Semester Total		16
Senior Year							
[7]	UNST Cluster Theme Elective		3	MEEN 503	Mechanical Engineering Lab IV	1	
	MEEN 501	General Engineering Topics Review	1	MEEN 562	Heat Transfer	3	
	MEEN 502	Mechanical Engineering Lab III	1	MEEN 572	Senior Seminar	1	
	MEEN 565	Computer Aided Design of Machines	3	[5]	MEEN 574	Mechanical Engr Design Project II	3
[5]	MEEN 573	Mechanical Engr Design Project I	3	MEEN 540	Vibrations and Control	3	
[6]	MEEN 6XX	Mechanical Engr Technical Elective	3	[6]	MEEN 6XX	Mechanical Engr Technical Elective	3
	Semester Total		14		Semester Total		14

(Total Credit Hours: 126)

Notes:

- [1] MEEN students should take Section 5 of the colloquium courses.
- [2] Transfer students from other engineering programs may exempt from these colloquium courses.
- [3] Students following the Aerospace Specialization should take MEEN 415-Aerodynamics instead.
- [4] Students following the Aerospace Specialization should take MEEN 576-Propulsion instead.
- [5] Students following the Aerospace Specialization should choose aerospace related senior design project.
- [6] Students following the Aerospace Specialization should choose aerospace related technical electives.
- [7] Must choose one cluster theme and take 12 credit hours in that cluster theme.