

4-Year Program with Study Abroad in Valencia

MECHANICAL ENGINEERING CURRICULUM

4-Year Program (for students starting in September 2020 with 2nd Year - FALL in Valencia, Spain)

1st Year - FA	LL (17 cr)	Grade
ENG 101 ^C	College Composition (3 cr)	
MAT 126 ^C	Calculus I (4 cr)	
MEE 101	Intro to Mech. Eng. (1 cr)	
MEE 120	Eng. Graphics & CAD (2 cr)	
PHY 121 ^{C-}	Physics for Eng. & Sci. I (4 cr)	
	HVSC Elective (3 cr)	

1st Year – SPRING (17 cr)		
MAT 127 ^C Calculus II (4 c	er)	
MEE 125 Computational	Tools for MEs (3 cr)	
or COS 220 or ECE 177		
MEE 150 ^C Statics (3 cr)		
PHY 122 Physics for En	g. & Sci. II (4 cr)	
HVSC Elective	e (3 cr)	

2nd Year - FAL	L (17 cr)	
CHY 121/3	General Chemistry I/Lab (4 cr)	_/_
or CHY 131/3	Chemistry for Engineers/Lab (4 cr)	/
MAT 228 ^C	Calculus III (4 cr)	
MEE 230 ^C	Thermodynamics I (3 cr)	
MEE 270 ^C	Dynamics (3 cr)	
	HVSC Elective (3 cr)	

2 nd Year – SP	RING (16 cr)	
ECE MA	P 1 (P1 / 1 / 2 / 4)	
20220	Tuna of Dicease Circuits (5 cr)	
ENG 320	Tech. Comm. for Engineering (3 cr)	
MAT 258	Diff. Eq. & Lin. Algebra (4 cr)	
MEE 231	Thermodynamics II (3 cr)	
MEE 251 ^C	Strength of Materials(3 cr)	

3rd Year – FALL (15 cr)				
MEE 320	Materials (3 cr)			
or MEE 370	Controls (3 cr)			
MEE 330	Manufacturing Engineering (3 cr)			
or MEE 360	Fluid Mechanics (3 cr)			
MEE 341	Mechanical Lab I (3 cr)			
or MEE 380	Design I (3 cr)			
MEE 381	Design II (3 cr)			
or MEE 456	Finite Element Method (3 cr)			
STS 332	Statistics for Engineers (3 cr)			
or	Engineering Elective (3 cr)			

3 rd Year – SPRING (15 cr)					
MEE 320	Materials (3 cr)				
or MEE 370	Controls (3 cr)				
MEE 330	Manufacturing Engineering (3 cr)				
or MEE 360	Fluid Mechanics (3 cr)				
MEE 341	Mechanical Lab I (3 cr)				
or MEE 380	Design I (3 cr)				
MEE 381	Design II (3 cr)				
or MEE 456	Finite Element Method (3 cr)				
STS 332	Statistics for Engineers (3 cr)				
or	Engineering Elective (3 cr)				

4th Year - FAL	L (15 cr)	
MEE 432	Heat Transfer (3 cr)	
or MEE 471	Mechanical Vibrations (3 cr)	
MEE 442	Mechanical Lab II (2 cr)	
MEE 487	Capstone Design I (4 cr)	
	MEE Technical Elective (3 cr)	
	MEE Technical Elective (3 cr)	

4" rear – SPR	ING (17 cr)	
MEE 432	Heat Transfer (3 cr)	
or MEE 471	Mechanical Vibrations (3 cr)	
MEE 443	Mechanical Lab III (2 cr)	
MEE 488	Capstone Design II (3 cr)	
	MEE Technical Elective (3 cr)	
	HVSC Elective (3 cr)	
	HVSC Elective (3 cr)	

4th Voor SDDING (17 or)

^C and ^{C-} indicate the minimum grade required in that course.

Engineering Elective (3 cr)				
Course	Grade			

MEE Technical Electives (9 cr)				
Course	Grade			

				Huma	Human Values and Social Context (HVSC) areas (18 cr)			Ethics	
	Course	HVSC credits	Grade	Western Cultural Tradition	Social Contexts & Institutions	Cultural Diversity & International Perspectives	Population & Environment	Artistic & Creative Expression	(not part of HVSC)
1.	ENG 320	3			x				
2.									
3.									
4.									
5.									
6.									
(if needed) 7.									
(if needed) 8.									

Students must complete 18 credits in the HVSC areas, and each of the 5 HVSC areas must be satisfied at least once. Students must also take a course that satisfies the Ethics requirement. Note that some courses satisfy more than one category (e.g. Ethics and an HVSC area).



2nd Year – FALL in Valencia

CHY 121/3 Intro to Chemistry/Lab (4 cr.)

MAT 228 Calculus III (4 cr.)

MEE 230* Thermodynamics I (3 cr.)

MEE 270* Dynamics (3 cr.)

Elective (3) HVSC Elective



Gain a semester-long study abroad experience without falling behind!