

Mechanical Engineering Curriculum 2018-2019 Catalog

Name _____

CLID _____

Adviser _____

IMPORTANT NOTES: A grade of "C" or better is required in all courses in all major department (MCHE) and engineering courses that are used toward the degree. A minimum of 2.0 cumulative average (major GPA) is required on all hours attempted in the major department (MCHE) and engineering courses that apply toward the degree. Students are responsible for completing all course prerequisites before enrolling in a course.

Freshman	Fall Semester	Cr	Pre-requisites (Pre OR Co-requisites)	Sem	Gr	Spring Semester	Cr	Pre-requisites (Pre OR Co-requisites)	Sem	Gr
CHEM 107	Gen Chem I	3	(MATH 109 or higher)			ENGL 102	3	English ACT \geq 28 or ENGL 101*		
ENGL 101	Rhet & Comp	3	English ACT score \geq 18			MATH 301	4	MATH 270* or 272*		
MATH 270	Calculus I	4	MATH ACT \geq 28 or MATH 110* or 143*			MCHE 101	2	(MATH 270)		
	BIOL Elective ¹	3	Check catalog for each course.			PHYS 201	4	MATH 270* or 272* (MATH 301)		
UNIV 100	Fresh. Seminar	3	Rstr: Completed 62 hours or less.				3	Arts Elective ²		
	Total	16				Total	16			
Sophomore										
CHEE 317	Mat of Engr	3	CHEM 107*, MATH 270*			CMCN 310	3	Public Speaking		
ENGR 211	Statics	3	MATH 301*, PHYS 201*			ENGR 201	3	Elect Circuits		
MATH 302	Calculus III	4	MATH 301* or 309*			ENGR 313	3	Dynamics		
PHYS 202	Gen Phys II	4	PHYS 201 (MATH 302 or 350)			MATH 350	3	Differential Eqns		
	Lit Elective ³	3	Check catalog for each course			ENGR 301	3	Thermodynamics		
	Gen. Sci. Lab ⁴	1	Check catalog for each course			MCHE 201	3	MCHE Design		
	Total	18				Total	18			
Junior										
ENGR 219	Mech. of Matls	3	ENGR 211*			Soc & Beh. Sci. Elective	3	Check catalog for each course		
MCHE 220	Mech. Matls lab	2	ENGL 102 or 115, ENGR 211* (ENGR 219)			MCHE 357	2	Instrum/Meas		
ENGR 304	Fluid Mechs.	3	ENGR 211*, (ENGR 313)			MCHE 365	3	Mfgr Processes		
MCHE 301	Engr Analysis	3	ENGR 201*, 211*, MATH 302* (MATH 350)			MCHE 467	3	Machine Design I		
MCHE 303	Grph. & SMod.	3	(ENGR 219, MCHE 201)			MCHE 474	3	Control Systems		
MCHE 362	Thermal Engrg.	3	ENGR 301*			MCHE 363	3	Kin. & Dyn. Mach.		
	Total	17				Total	17			
Senior										
MCHE	Tech Elective ⁷	3	Upper Division			MCHE	3	Tech Elective ⁷		
MCHE 469	Heat Transfer	3	ENGR 201*, 301*, 304*, MATH 350*			MCHE	3	Tech Elective ⁷		
MCHE 482	Projects I	3	(MCHE 467)			MCHE 484	2	Projects II		
MCHE 358	Energy Sys Lab	2	MCHE 362* (ENGR 304)			PHIL 316	3	Prof Ethics		
	History Elective ⁵	3	Check catalog for each course				3	SOC/BHSC Elective ⁶		
	Total	14				Total	14			

*Requires that the prerequisite course be completed with a "C" or better.
See reverse side for notes on electives.