

Mechanical Engineering Curriculum 2017-2018 Catalog

Name _____

CLID _____

Adviser _____

IMPORTANT NOTES: A grade of "C" or better is required for all courses in this curriculum. Students have only three attempts to achieve a C or better in a required course. Electives must be chosen from the Department of Mechanical Engineering approved list of electives. At least one of the technical electives must be a mechanical engineering design course. All freshmen courses must be completed before taking any junior level course; all freshman and sophomore courses must be completed before taking any senior level 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	Composition & Lit	3	Engl ACT >= 28 or Engl 101		
ENGL 101	Rhet & Comp	3	Verbal ACT score >= 18 or ENGL 90			MATH 301	Calculus II	4	Math 270		
MATH 270	Calculus I	4	Math ACT >=28 or MATH 110 or 143			MCHE 101	Intro to MCHE	2	(MATH 270)		
BIOL	Biology Elective	3	Check catalog for each course			PHYS 201	Gen Physics I	4	Math 270 (Math 301)		
UNIV 100	Fresh. Seminar	3					Arts Elective	3			
	Total	16					Total	16			
Sophomore											
CHEE 317	Mat of Engr	3	Chem 107, MATH 270			CMCN 310 or THEA 261		3	CMCN 310 Public Spkg or THEA 261 Acting I		
ENGR 211	Statics	3	PHYS 201			ENGR 201	Elect Circuits	3	PHYS 201		
MATH 302	Calculus III	4	Math 301			ENGR 313	Dynamics	3	ENGR 211		
PHYS 202	Gen Phys II	4	Phys 201 (Math 302)			MATH 350	Differential Eqns	3	Math 301		
	Lit Elective	3	Check catalog for each course			ENGR 301	Thermodynamics	3	Math 270, Chem 107,& Phys 201 or Chem 108		
	Gen. Sci. Lab	1	Check catalog for each course			MCHE 201	MCHE Design	3	MCHE 101, ENGR 211		
	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, (Engr 219)			MCHE 357	Instrum/Meas	2	MCHE 220, ENGR 201		
ENGR 304	Fluid Mechs.	3	(ENGR 313)			MCHE 365	Mfgr Processes	3	CHEE 317, ENGR 219, MCHE 220, (MCHE 303)		
MCHE 301	Engr Analysis	3	Engr 201, 211, Math 302 (Math 350)			MCHE 467	Machine Design I	3	CHEE 317, ENGR 219, (MCHE 303)		
MCHE 303	Grph. & SMod.	3	(ENGR 219, MCHE 201)			MCHE 474	Control Systems	3	MATH 302, 350, ENGR 313		
MCHE 362	Thermal Engrg.	3	ENGR 301			MCHE 363	Kin. & Dyn. Mach.	3	ENGR 313, MCHE 201, MCHE 301 (MCHE 303)		
	Total	17					Total	17			
Senior											
MCHE	Tech Elective	3	Upper Division			MCHE	Tech Elective	3	Upper Division		
MCHE 469	Heat Transfer	3	ENGR 201, 301, 304, MATH 350			MCHE	Tech Elective	3	Upper Division		
MCHE 482	Projects I	3	(MCHE 303, 358, 363, 365, 467) Restr: Senior standing			MCHE 484	Projects II	2	MCHE 303, 358, 363, 365, 467, 482 Restr: must be taken the semester after MCHE 482		
MCHE 358	Energy Sys Lab	2	(Engr 304) MCHE 301, 357, 362			PHIL 316	Prof Ethics	3	ENGL 102 or ENGL 115		
HIST	History Elective	3	Check catalog for each course			Soc & Beh. Sci.	Elective	3	Check catalog for each course		
	Total	14					Total	14			