

Mechanical Engineering Curriculum

2013 – 2015 Catalog (Green)

NAME _____ CLID # _____ Advisor _____

Course	Course Name	Cr	Prerequisites (Corequisites)	Sem	Gr	Course	Course Name	Cr	Prerequisites (Corequisites)	Sem	Gr
	Fall Semester						Spring Semester				
Freshman											
CHEM 107	Gen Chem I	3	MATH 105 w/C grade			ENGL 102	Composition & Lit	3	ENGL 101 w/C grade		
ENGL 101	Rhet & Comp	3	ACT > 18 or ENGL 90			MATH 301	Calculus II	4	MATH 270 w/C grade		
MATH 270	Calculus I	4	See catalog			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, w/C grade (MATH 301)		
UNIV 100	Freshman Seminar	2				UNIV 200	Inform. Literacy	2			
	Total	15					Total	16			
Sophomore											
CHEE 317	Mat of Engr	3	CHEM 107, MATH 270			CMCN 310	Public Speaking	3	Check Catalog		
ENGR 211	Statics	3	PHYS 201			ENGR 201	Elect Circuits	3	PHYS 201		
MATH 302	Calculus III	4	MATH 301 w/C grade			ENGR 313	Dynamics	3	ENGR 211 w/C grade		
PHYS 202	Gen Phys II	4	PHYS 201 (MATH 302)			MATH 350	Differential Eqns	3	MATH 301 w/C grade		
	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	Phys, Biol or Chemistry			MCHE 201	MCHE Design	2	MCHE 101, ENGR 211		
	Total	18					Total	17			
Junior											
ENGR 219	Mech of Mat'ls	3	ENGR 211 w/C or better			ECON 300	Fund of Econ	3	None (ECON 201 acceptable substitute)		
MCHE 202	Mech of Mat'ls lab	2	(ENGR 219) ENGR 102, ENGR 211			MCHE 357	Instrum/Msrmts	2	ENGR 201, MCHE 220		
ENGR 304	Fluid Mechs.	3	ENGR 211, (ENGR 313)			MCHE 365	Mfg Processes	3	CHEE 317, ENGR 219		
MCHE 301	Engr Analysis	3	MATH 302 (MATH 350)			MCHE 467	Machine Design I	3	ENGR 219, MCHE 303, CHEE 317		
MCHE 303	Graph & Sld Model	3	(ENGR 219) MCHE 201,			MCHE 474	Control Systems	3	MATH 302, 350, ENGR 313		
MCHE 363	Kin. & Dyn. Mach	3	ENGR 313, MCHE 201, (MATH 350, MCHE 303)			MCHE 362	Thermal Eng.	3	ENGR 301		
	Total	17					Total	17			
Senior											
MCHE	Tech Elective	3	Upper Division			MCHE	Tech Elective	3	Upper Division		
MCHE 358	Energy Sys Lab	2	(ENGR 304), MCHE 357, MCHE 362			MCHE	Tech Elective	3	Upper Division		
MCHE 469	Heat Transfer	3	ENGR 201, 301, 304, MATH 350			MCHE 484	Engr. Projects II	2	Taken the semester after MCHE 482		
MCHE 482	Engr Projects I	3	MCHE 467			PHIL 316	Prof Ethics	3	None		
HIST	History Elective	3	Check catalog for each course			ECON 430	Ind Econ & Fin	3	Math 301		
							Art Elective	3			
	Total	14					Total	17	TOTAL HOURS: 130		

A" C" or better is required in all courses.....A student has three attempts to earn a "C" or better in all courses required for their degree. All electives must be chosen from the Department of Mechanical Engineering approved list of electives, and one of the three electives must be a design course.. All courses listed in the freshman year must be successfully completed before a student will be permitted to register for any junior year courses in the major. Similarly, all sophomore courses must be completed before taking senior level classes. Students are cautioned to schedule courses in the order listed and to pay careful attention to prerequisites required. Some courses are offered only once a year; dropping a required course or failing to complete a prerequisite course may delay a student's graduation by one or two semesters.