

# Mechanical Engineering Curriculum 2016-2017 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 freshman 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)	%	E	Gr	Spring Semester	Cr	Pre-requisites (Pre OR Co-requisites)	%	E	Gr
CHEM 107	Gen Chem I	3	(Math 109 or higher)				ENGL 102	3	Engl 101			
ENGL 101	Rhet & Comp	3	Verbal ACT score >= 18 or ENGL 90			MATH 301	4	Math 270				
MATH 270	Calculus I	4	Math ACT score >=28 or MATH 110			MCHE 101	2	(MATH 270)				
BIOL	Biology Elective	3	Check catalog for each course			PHYS 201	4	Math 270 (Math 301)				
UNIV 100	Fresh. Seminar	3				Arts Elective	3					
	<b>Total</b>	<b>16</b>				<b>Total</b>	<b>16</b>					
<b>Sophomore</b>												
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	3	PHYS 201				
MATH 302	Calculus III	4	Math 301			ENGR 313	3	ENGR 211				
PHYS 202	Gen Phys II	4	Phys 201 (Math 302)			MATH 350	3	Math 301				
	Lit Elective	3	Check catalog for each course			ENGR 301	3	Math 270, Chem 107, Phys 201 or Chem 108				
	Gen. Sci. Lab	1	Check catalog for each course			MCHE 201	3	MCHE 101, ENGR 211				
	<b>Total</b>	<b>18</b>				<b>Total</b>	<b>18</b>					
<b>Junior</b>												
ENGR 219	Mech. of Matis	3	ENGR 211			ECON 300	3	None, (ECON 201 acceptable substitute)				
MCHE 220	Mech. Matis lab	2	Engl 102, (Engr 219)			MCHE 357	2	MCHE 220, ENGR 201				
ENGR 304	Fluid Mechs.	3	(ENGR 313)			MCHE 365	3	CHEE 317, ENGR 219, MCHE 220, (MCHE 303)				
MCHE 301	Engr Analysis	3	Engr 201, 211, Math 302 (Math 350)			MCHE 467	3	CHEE 317, ENGR 219, (MCHE 303)				
MCHE 303	Grph. & SMod.	3	(ENGR 219, MCHE 201)			MCHE 474	3	MATH 302, 350, ENGR 313				
MCHE 362	Thermal Engrg.	3	ENGR 301 ( <del>ENGR 304</del> )			MCHE 363	3	ENGR 313, MCHE 201, MCHE 301 (MCHE 303)				
	<b>Total</b>	<b>17</b>				<b>Total</b>	<b>17</b>					
<b>Senior</b>												
MCHE	Tech Elective	3	Upper Division			MCHE	3	Upper Division				
MCHE 469	Heat Transfer	3	ENGR 201, 301, 304, MATH 350			MCHE	3	Upper Division				
MCHE 482	Projects I	3	(MCHE 303, 358, 363, 365, 467) Restr: Senior standing			MCHE 484	2	MCHE 303, 358, 363, 365, 467, Restr: must be taken the semester after MCHE 482				
MCHE 358	Energy Sys Lab	2	(Engr 304) MCHE 301, 357, 362			PHIL 316	3	None				
HIST	History Elective	3	Check catalog for each course			ECON 430	3	Math 301				
	<b>Total</b>	<b>14</b>				<b>Total</b>	<b>14</b>					