

Curriculum Guide Major: Mechanical Engineering BS 2012-2013							
First Year				Second Year			
Semester 1		Semester 2		Semester 1		Semester 2	
ENGL 1301	3 hrs.	ENGR 1304 w/lab	3 hrs.	COMM 1315	3 hrs.	Core 40 <sup>C</sup>	3 hrs.
ENGR 1301* w/lab	3 hrs.	ENGR 2301*	3 hrs.	ENGL 2311*	3 hrs.	ENGR 2332*	3 hrs.
MATH 2413*	4 hrs.	MATH 2414*	4 hrs.	ENGR 2302*	3 hrs.	CS 1315* (FA)	3 hrs.
PHYS 2425* w/lab (FA)	4 hrs.	PHYS 2426* w/lab (SP)	4 hrs.	CHEM 1411*	4 hrs.	ET 2371* w/lab	3 hrs.
Core 90 <sup>C</sup>		Core 50 <sup>C</sup>	3 hrs.	MATH 3342*	3 hrs.	MENG 4304*	3 hrs.
(IDS 1071 if required)	3 hrs.						
17 hrs.		17 hrs.		16 hrs.		15 hrs.	
Third Year				Fourth Year			
Semester 1		Semester 2		Semester 1		Semester 2	
ENGR 1375 w/lab	3 hrs.	ENGR 1171 (SU)	1 hr.	MENG 4352*	3 hrs.	MENG 4380* w/lab	3 hrs.
ENGR 3305* w/lab	3 hrs.	ENGR 3202*	3 hrs.	MATH/PHYS Elec. <sup>1</sup>	3 hrs.	MATH/PHYS Elec. <sup>1</sup>	3 hrs.
MATH 3340*	3 hrs.	MENG 3350*	3 hrs.	MENG Elective	3 hrs.	MENG Elective	3 hrs.
MENG 3320*	3 hrs.	MENG 4350*	3 hrs.	Core 70 <sup>C</sup>	3 hrs.	Core 70 <sup>C</sup>	3 hrs.
Core 60 <sup>C</sup>	3 hrs.	MENG 4360* w/lab	3 hrs.	Elective <sup>2</sup>	3 hrs.	Core 80 <sup>C</sup>	3 hrs.
		Core 60 <sup>C</sup>	3 hrs.				
15 hrs.		15/1 hrs.		15 hrs.		15 hrs.	
* Indicates prerequisites. <sup>C</sup> See degree checklist for options. FA=Fall only SP=Spring only							
<i>NOTE: Course scheduling/rotation notes are not definitive and should be used for general planning purposes only. A number of factors can influence when courses are offered. Students should always seek the advice of their academic advisor before scheduling classes.</i>							

**PREREQUISITE NOTES:**

**CHEM 1411:** MATH 1314 or MATH 1324.  
**CS 1315:** MATH 1314 and MATH 1316 or MATH 2412.  
**ENGL 2311:** ENGL 1301.  
**ENGR 1301:** MATH 1314.  
**ENGR 2301:** ENGR 1301 and MATH 2413.  
**ENGR 2302:** ENGR 2301.  
**ENGR 2332:** ENGR 2301 and MATH 2414.  
**ENGR 3202:** MATH 1314 or higher.  
**ENGR 3305:** ENGR 1304 and ENGR 2301.  
**ET 2371:** CHEM 1411.  
**MATH 2413:** MATH 2412 or 1316 or ACT score of 27 or SAT 620 or above on the math section.  
**MATH 2414:** MATH 2413.  
**MATH 3340:** MATH 2414.  
**MATH 3342:** MATH 2414.  
**MENG 3320:** PHYS 2426 and MATH 2414.  
**MENG 4304:** ENGR 2302 and MATH 2414.  
**MENG 3350:** ENGR 2332.  
**MENG 4350:** ENGR 2332 and ET 2371.  
**MENG 4352:** MENG 4360.  
**MENG 4360:** MENG 3320, MENG 4304, and MATH 3342.  
**MENG 4380:** senior standing.  
**PHYS 2425:** MATH 2413 or concurrent enrollment.  
**PHYS 2426:** PHYS 2425 and MATH 2414 or concurrent enrollment.

**ADDITIONAL NOTES:**

<sup>1</sup>Must be from MATH 3311 (prereq. MATH 2414, FA), MATH 3343 (prereq. MATH 3342, SP), MATH 4340 (prereq. MATH 3340, FA odd), MATH 4341 (prereq. MATH 3325, SP), MATH 4361 (no prereq., SP odd), MATH 4362 (prereq. MATH 2414, FA even), PHYS 3310 (prereq. PHYS 2426 and MATH 2414, FA odd), PHYS 4310 (prereq. PHYS 3310, SP even), PHYS 4330 (prereq. PHYS 2426, SP odd).

<sup>2</sup>Choose from CS, ENGR, ET, CENG, or MENG courses