

Mechanical Engineering Curriculum 2014-2015

University of Wyoming

FRESHMAN YEAR					
Fall Semester			Spring Semester		
MATH 2200	Calculus I	4	MATH 2205	Calculus II	4
ES 1000	Orientation to Engineering (I,L)	1	ES 2110	Statics	3
ES 1060	Intro to Eng Problem Solving	3	COJO 1010	Public Speaking (O)	3
CHEM 1020	General Chemistry I	4		US & Wyo Constitutions (V)	3
ENGL 1010	Composition and Rhetoric (WA)	3		Math/Science Elective¹	3
PEAC 1001	PE Activity	1			
TOTAL HOURS		16	TOTAL HOURS		16

SOPHOMORE YEAR					
Fall Semester			Spring Semester		
MATH 2210	Calculus III	4	MATH 2310	Applied Differential Equations I	3
ES 2120	Dynamics	3	ES 2310	Thermodynamics I	3
ES 2210	Electric Circuit Analysis	3	ES 2330	Fluid Dynamics	3
ES 2410	Mechanics of Materials	3	ME 2020	Design of Experiments	2
PHYS 1220	Engineering Physics II	4	ENGL 2005	Writing in Technology & Sciences (WB)	3
				CHEM 1030 <i>or</i> PHYS 2310 Waves/Optics	
				<i>or</i> PHYS 2320 Modern Physics	3/4
TOTAL HOURS		17	TOTAL HOURS		17-18

JUNIOR YEAR					
Fall Semester			Spring Semester		
ME 2160	Fluids Laboratory	2	ME 3170	Machine Design	3
ME 3010	Intermediate Mechanics of Materials	3	ME 3360	Fund. of Transport Phenomena	3
ME 3020	System Dynamics	3	ME 3450	Properties of Materials	3
ME 3040	Thermodynamics II	3	ME 4020	Mechatronics	3
	Business Elective²	3		Technical Elective³	3
				Cultural Context Elective ⁴	3
TOTAL HOURS		14	TOTAL HOURS		18

SENIOR YEAR					
Fall Semester			Spring Semester		
ME 4010	Vibrations <i>or</i> EE 4620 Auto Controls	3	ME 4070	Systems Design II (WC)	3
ME 4060	Systems Design I	3		ME Elective ⁵	3
	ME Elective ⁵	3		ME Solids Elective ⁶	3
	Math/Science Elective¹	3		ME Fluids Elective ⁷	3
	Cultural Context Elective ⁴	3		Cultural Context Elective ⁴	3
TOTAL HOURS		15	TOTAL HOURS		15
TOTAL HOURS TO BSME DEGREE: 128					

¹ Math/Science Electives must be chosen from a Department approved list.

² Business Elective: must be chosen from a Department approved list.

³ Technical Elective: Must have prior approval of the advisor. May be chosen from any engineering discipline, mathematics, science, or business.

⁴ The Cultural Context Electives must be chosen to earn one each of the following credits: CH (Humanities); CS (Social Sciences); CA (Arts); G (Global Awareness); and D (Cultural Diversity in the US)

⁵ ME Elective: Any ME course

⁶ ME Solids Electives: ME 4040, 4100, 4210, 4215, 4450

⁷ ME Fluids Electives: ME 3400, 4240, 4330, 4340, 4350, 4430, 4470

Required courses (including ME Solids Elective, ME Fluids Elective, and (2) ME Electives) only total 42 upper division hours (48 hours required).

As a result, 2 of the 4 elective courses appearing in bold face above must be at 3000+ level

Degree candidates must meet academic requirements of the college and have an average grade point average of 2.00 in all ME courses completed at UW.

Color Code: **Mathematics in Red**, **Sciences in Green**, **Engineering in Blue**, and **University Studies Requirements in Orange**