

Mechanical Engineering Curriculum 2018-2019

University of Wyoming

FRESHMAN YEAR					
Fall Semester			Spring Semester		
Course		Grade	Course		Grade
<i>MATH 2200</i>	<i>Calculus I</i>	<i>4</i>	<i>MATH 2205</i>	<i>Calculus II</i>	<i>4</i>
	First Yr Seminar (FYS)	3	<i>ES 2110</i>	<i>Statics</i>	<i>3</i>
	UW & WY Const. (V)	3	COJO 2010	Public Speaking (C2)	3
CHEM 1020	General Chemistry I	4		Human Culture ¹ (H)	3
ENGL 1010	Comp. & Rhetoric (C1)	3		Math/Science Elective ²	3
Total Hours		17	Total Hours		16

SOPHOMORE YEAR					
Fall Semester			Spring Semester		
Course		Grade	Course		Grade
<i>MATH 2210</i>	<i>Calculus III</i>	<i>4</i>	<i>MATH 2310</i>	<i>Appl. Diff. Eqns.</i>	<i>3</i>
<i>ES 1060</i>	<i>Intro Eng. Prob. Solv.</i>	<i>3</i>	<i>ES 2310</i>	<i>Thermodynamics</i>	<i>3</i>
<i>ES 2120</i>	<i>Dynamics</i>	<i>3</i>	<i>ES 2330</i>	<i>Fluid Dynamics</i>	<i>3</i>
<i>ES 2210</i>	<i>Elec. Circuit Analysis</i>	<i>3</i>	<i>ES 2410</i>	<i>Mech. of Materials</i>	<i>3</i>
PHYS 1220	Engr. Physics II	4	ENGL 2005	Technical Writing	3
			One of CHEM 1030 <i>or</i> PHYS 2310 <i>or</i> PHYS 2320		3/4
Total Hours		17	Total Hours		18/19

JUNIOR YEAR					
Fall Semester			Spring Semester		
Course		Grade	Course		Grade
ME 3005	Engr. Experimentation	3	ME 3160	Fluids Laboratory	3
ME 3060	Numerical Methods	3	ME 3170	Machine Design	3
ME 3010	Int. Mech. of Materials	3	ME 3360	Transport Phenomena	3
ME 3020	System Dynamics	3	ME 3450	Properties of Materials	3
ME 3040	Thermodynamics II	3	ME 4020	Des. Mech./Elec. Sys.	3
	Math/Science Elective ²	3			
Total Hours		18	Total Hours		15

SENIOR YEAR					
Fall Semester			Spring Semester		
Course		Grade	Course		Grade
ME 4060	Systems Design I (C3)	3	ME 4070	Systems Design II	3
ME 4150	Mech. Behav. of Mater.	3		ME Elective ³	3
	ME Elective ³	3		ME Elective ³	3
	ME Elective ³	3		Business Elective ²	3
	Human Culture ¹ (H)	3		Technical Elective ⁴	3
Total Hours		15	Total Hours		15

Notes:

- i) Before enrolling in any upper division ME course, students must complete the ME Success Curriculum (3.0 GPA in MATH 2200, MATH 2205, MATH 2210, and the seven ES courses). *These courses are shown in italics.*
- ii) Graduates must meet all college requirements and earn a minimum GPA of 2.0 in ME courses taken at UW.
- iii) Color code: **Mathematics**, **Sciences**, **Engineering**, and **University Studies Requirements**.

¹ Approved (H) course in USP 2015

² Math/Science and Business Electives must be selected from a Department-approved list.

³ ME Elective can be any upper division ME course or EE 4620.

⁴ Technical Elective: May be chosen from any engineering, approved math/science, or approved business.