



MECHANICAL ENGINEERING, BSME

FALL

SPRING

Course Number	Course Title	USP	CR	Min Grade	Grade	Course Number	Course Title	USP	CR	Min Grade	Grade
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FRESHMAN YEAR

MATH 2200	Calculus I	Q	4	C	
Prerequisite: C in Math 1405 or 1450, MPE 5, Math ACT 27, Math SAT 640					
	USP: First Year Seminar	FYS	3	C	
ES 1060	Intro to Eng Problem		3	C-	
Prerequisite: Concurrent MATH 2200					
CHEM 1020	General Chemistry I	PN	4	C-	
Prerequisite: ACT Math 23 or concurrent MATH 1400, 1405 or 1450					
	USP: Communications I	C1	3	C	
Total			17		

MATH 2205	Calculus II		4	C	
Prerequisite: C in Math 2200					
ES 2110	Statics		3	C	
Prerequisite: Concurrent in MATH 2205					
	USP: Communications II	C2	3	C	
Prerequisite: C in C1					
	Math/Science Elective		3	D	
	USP: Human Culture	H	3	D	
Total			16		

SOPHOMORE YEAR

ES 2120	Dynamics		3	C	
Prerequisite: C in MATH 2205 and ES 2110					
ES 2210	Electric Circuit Analysis		3	C-	
Prerequisite: Concurrent in MATH 2205					
ES 2410	Mechanics of Materials		3	C-	
Prerequisite: C in MATH 2205 and ES 2110					
MATH 2210	Calculus III		4	C	
Prerequisite: C in MATH 2205					
PHYS 1220	Engr Physics II		4	D	
Prerequisite: Concurrent in MATH 2210					
Total			17		

ES 2310	Thermodynamics		3	C-	
Prerequisite: C in MATH 2210 and ES 2120					
ES 2330	Fluid Dynamics		3	C-	
Prerequisite: C in MATH 2210 and ES 2120					
ES 2800	Designing with Devices		3	C-	
Prerequisite: ES 1101 or concurrent in ES 2210					
MATH 2310	Applied Differential Eqns I		3	C-	
Prerequisite: C in MATH 2205					
One of:	CHEM 1030 or PHYS 2310 or PHYS 2320		3	D	
	USP: US & Wyo Const.	V	3	D	
Total			18		

JUNIOR YEAR

ME 3005	Engineering Experimentation		3	D	
Prerequisite: MESC, C- in ES 1060, C in ES 2120					
ME 3010	Intermed. Mechanics of Mat.		3	D	
Prerequisite: MESC, C- in ES 2410					
ME 3020	System Dynamics		3	D	
Prerequisite: MESC, C- in ES 2210 and MATH 2310					
ME 3040	Thermodynamics II		3	D	
Prerequisite: MESC, CHEM 1020 and C- in ES 2310					
ME 3060	Numerical Meth. For Engineers		3	D	
Prerequisite: MESC, C- in ES 1060, and concurrent in MATH 2310					
Total			15		

ME 3160	Thermal/Fluid Science Lab		3	D	
Prerequisite: MESC, ME 3005, C- in ES 2330					
ME 3170	Machine Design		3	D	
Prerequisite: MESC, C- in ES 2410					
ME 3360	Fund. Of Transport Phenom		3	D	
Prerequisite: MESC, C- in MATH 2310, ES 2310, and ES 2330					
ME 3450	Properties of Materials		3	D	
Prerequisite: MESC, CHEM 1020 and C- in ES 2310					
	USP: Human Culture	H	3	D	
	Math/Science Elective		3	D	
Total			18		

SENIOR YEAR

ME 4060	Systems Design I		3	D	
Prerequisite: MESC, ME 3170, ME 3360, Concurrent in ME 3010					
ME 4150	Mech. Behavior of		3	D	
Prerequisite: MESC, ME 3450					
	ME Elective		3	D	
Prerequisite: MESC					
	ME Elective		3	D	
Prerequisite: MESC					
	USP: Communications III	C3	3	C	
Prerequisite: C in C2					
Total			15		

ME 4070	Systems Design II		3	D	
Prerequisite: MESC, ME 4060, COM2					
	ME Elective		3	D	
Prerequisite: MESC					
	ME Elective		3	D	
Prerequisite: MESC					
	Business Elective		3	D	
	Technical Elective		3	D	
Total			15		

Fall only or spring only course

Total Program Credits: 131

- A minimum of 131 hours is required. • A minimum of 48 hours must be upper division. • 30 hours of upper division must be from UW.
- Math/Science, Business, Technical, and ME Electives must be selected with advisor's approval from Department list. ME Electives must be upper division ME courses or EE 4620.
- Degree candidates must meet the academic requirements of the university, and must have a minimum GPA of 2.0 in all engineering courses, and a minimum GPA of 2.0 in all ME/ESE courses attempted at UW.
- Students may not take a course for S/U credit to satisfy any requirement, unless the course is offered for S/U credit only.
- ME Success Curriculum (MESC): Before enrolling in any upper division ME course, students must have a 3.0 overall GPA in the following MESC courses: MATH2200, MATH 2205, MATH 2210, ES 1060, ES 2110, ES 2120, ES 2210, ES 2310, ES 2330 and ES 2410.
- The following courses must be taken at UW and cannot be transferred: ME 3010, ME 3020, ME 3040, ME 3170, ME 3360 and ME 3450.