



B.S. Mechanical Engineering 2020-2021 Catalog

University of Wyoming B.S. Mechanical Engineering	cr	Min Grade	Notes
USP - University Studies Program Requirements			
USP: First Year Seminar	3	C	FYS
USP: Communications I	3	C	C1
USP: Communications II	3	C	C2
USP: Communications III	3	C	C3
USP: US & Wyoming Constitutions	3	D	V
USP: Human Culture	3	D	H
USP: Quantitative			
MATH 2200 Calculus I	4	C	Q
USP: Physical & Natural World			
CHEM 1020 General Chemistry I	4	C	PN
PHYS 1220 Engineering Physics II	4	D	PN
Credit hours subtotal:			30
Mechanical Engineering Major Courses			
ES 1060 Introduction to Engineering Problem Solving	3	C	
ES 2110 Statics	3	C	
ES 2120 Dynamics	3	C	
ES 2210 Electric Circuit Analysis	3	C	
ES 2310 Thermodynamics	3	C	
ES 2330 Fluid Dynamics	3	C	
ES 2410 Mechanics of Materials	3	C	
ES 2800	3	D	
ME 3005 Engineering Experimentation	3	D	
ME 3010 Intermediate Mechanics of Materials	3	D	
ME 3020 System Dynamics	3	D	
ME 3040 Thermodynamics II	3	D	
ME 3060 Numerical Methods for Engineers	3	D	
ME 3160 Thermal/Fluid Science Lab	3	D	
ME 3170 Machine Design	3	D	
ME 3360 Fundamentals of Transport Phenomena	3	D	
ME 3450 Properties of Materials	3	D	
ME 4060 Systems Design I	3	D	
ME 4070 Systems Design II	3	D	
ME 4150 Mechanical Behavior of Materials	3	D	

ME Electives, complete all:			
ME Elective #1			
ME Elective #2			
ME Elective #3			
ME Elective #4	12	D	see ME Success Curriculum note

Credit hours subtotal: 72

Major Related Courses			
MATH 2205 Calculus II	4	C	Q
MATH 2210 Calculus III	4	C	
MATH 2310 Applied Differential Equations I	3	C	
Choose one:			
CHEM 1030 General Chemistry II			
PHYS 2310 Physics III: Waves and Optics			
PHYS 2320 Physics IV: Modern Physics	3	D	Choose one - 3 OR 4 CREDITS.
Math/Science Elective #1	3	D	
Math/Science Elective #2	3	D	See Math/Science, Business, Technical & ME Elective note
Business Elective	3	D	
Technical Elective	3	D	

Credit hours subtotal: 26

B.S. Mechanical Engineering total credit total: 128

Mechanical Engineering Major Notes:

- A minimum of 131 hours is required.
- A minimum of 48 hours must be upper division (3000-4000 level).
- **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: MATH 2200, 2205, 2210; ES 1060, 2110, 2120, 2210, 2310, 2330, 2410.
- The following courses must be taken at UW and cannot be transferred: ME 3010, 3020, 3040, 3170, 3360, 3450.
- **Math/Science, Business, Technical & ME Electives:** Must be selected with advisor's approval from Department list. ME Electives must be upper division approved 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.

University of Wyoming Requirements

- Students must have a minimum cumulative GPA of 2.0 to graduate.
- Students must complete 42 hours of upper division (3000-level or above) coursework, 30 of which must be from the University of Wyoming.
- Courses must be taken for a single letter grade unless offered only for S/U.
- University Studies Program (USP), Human Culture (H) and Physical & Natural World (PN) courses must be taken outside of the major subject, but can be cross-listed with the major.

The University of Wyoming Office of the Registrar provides final approval of degree completion requirements prior to the awarding of any degree.