

Bachelor of Science with a Major in General Engineering with an Option in Welding Engineering

Freshman		Fall Semester		Sophomore		Fall Semester	
MATH 152	Calculus I	4		MATH 251	Calculus III	4	
PHYS 211	Fundamentals of Physics	4		CHEM 161	General Chemistry	5	
PHYS 213	Physics lab I	1			Social Science	3	
PHYS 175	Intro. to Engineering	3			Humanities Elective	3	
ENEX 101	Composition	3					
WEL 111	Welding	2					
		<u>15</u>				<u>15</u>	

Freshman		Spring Semester		Sophomore		Spring Semester	
MATH 153	Calculus II	4		MATH 341	Probability and Statistics	3	
PHYS 212	Fundamentals of Physics	4		CHEM 162	General Chemistry	5	
PHYS 214	Physics lab II	1		PHYS 295	Engineering Statics	3	
ECON 111	Microeconomics	3			Humanities Elective	3	
		<u>15</u>				<u>14</u>	

3rd and 4th Years at Montana Tech

Junior		Fall Semester		Senior		Fall Semester	
ENGR 1050	Intro to General Engineering	1		BUS 3610	Principles of Management	3	
ENGR 1110	Welding Methods I	2		ENGR 2530	Electric Circuits	3	
ENGR 2060	Engineering Dynamics	3		ENGR 2550	Electric Circuits Lab	1	
ENGR 2150	Engineering Graphics	2		ENGR 3260	Fluid Mechanics	3	
ENGR 2400	Intro Welding Engineering	2		ENGR 3280	Fluid Mechanics Lab	1	
ENGR 3210	Technical Writing	3		ENGR 4430	Physics of Welding	3	
ENGR 3340	Thermodynamics I	3		ENGR 4040	Professional Engineering	1	
ENGR 3350	Mechanics of Materials	3		ENGR 4450	Instrumentation and Control	3	
ENGR 3360	Mechanics of Materials Lab	1		ENGR 4460	Instrument. and Control Lab	1	
ENGR 3400	Weld Process Applications	3		ENGR 4750	Industrial Robotics	1	
ENGR 4400	Design Weld Connections	2		ENGR 4940	Engineering Seminar	1	
ENGR 4760	Nondestructive Examination	3		ENGR 4920	Engineering Design I	2	
MATH 2236	Differential Equations	3		ENGR 4930	Engineering Design II	1	
METE 3510	Fund. of Phys. Metallurgy	3		MEC 3630	Engineering Economy	3	
METE 3520	Materials Engineering	3			Professional Electives	5	
METE 3540	Materials & Phys Met Lab	1		METE 4880	Metallurgy of Ferrous Welds	3	
METE 3530	Metallographic Interp	1			Approved Electives	4	
	Approved Electives	4				<u>39</u>	
		<u>43</u>					