

Table 2: Mechanical Engineering

<b>Dual Degree Program</b> <b>Wisconsin Lutheran College</b> <b>PHYSICS</b> <b>and</b> <b>University of Wisconsin- Milwaukee</b> <b>MECHANICAL ENGINEERING</b>			
<b>UW-MILWAUKEE REQUIREMENTS</b>			
Course/Credits required to earn the UWM Degree	Credits	Fulfilled by WLC Degree (X = yes, blank = no)	Still to be completed at UWM (X = yes, blank = no)
<b>General Education Requirements</b>			
Arts	3	X	
Humanities	6	X	
Social Sciences	6	X	
Cultural Diversity		X	
Competencies		X	
<b>Natural Science Requirements</b>			
CHEM 105 General Chemistry for Engineers	5	X	
PHYSICS 209 Physics I	4	X	
PHYSICS 214 Lab Physics I	1	X	
PHYSICS 210 Physics I	4	X	
PHYSICS 215 Lab Physics II	1	X	
<b>Mathematics Requirements</b>			
MATH 231 Calculus and Analytic Geometry	4	X	
MATH 232 Calculus and Analytic Geometry	4	X	
MATH 233 Calculus and Analytic Geometry	4	X	
ELECENG 234 Analytical Methods in Engineering	4	X	
<b>Engineering Core Requirements</b>			
CIV ENG 201 Statics	3		X
CIV ENG 202 Dynamics	3	X	
CIV ENG 303 Strength of Materials	4		X
EAS 200 Professional Seminar	1		X
ELECENG 301 Electrical Circuits I	3		X
IND ENG 467 Intro Statistics Physical Sciences & Engineering	3	X	
MATLENG 201 Basic Engineering Materials	4		X
<b>Mechanical Engineering Major Requirements</b>			
MECHENG 101 Computational Tools for Engineering	2		X
MECHENG 110 Engineering Fundamentals I	4		X
MECHENG 111 Engineering Fundamentals II	4		X
MECHENG 301 Basic Engineering Thermodynamics	3	X	
MECHENG 320 Introduction to Fluid Mechanics	3		X
MECHENG 321 Basic Heat Transfer	4		X
MECHENG 323 Fluid Mechanics Laboratory	1		X
MATLENG 330 Materials and Processes in Manufacturing	3		X
MECHENG 360 Mechanical Design I	3		X
MECHENG 366 Design of Machine Elements	4		X
MECHENG 370 Computer Aided Engineering Laboratory	2		X
MECHENG 438 Mechanical Engineering Experimentation	3		X
MECHENG 475 Introduction to Control Systems	4		X
MECHENG 479 Control and Design of Mechatronic Systems	3		X
MECHENG 496 Senior Design	3		X
<b>Mechanical Engineering Technical Electives</b>			
Technical Electives	15		X
<b>Total Credits - Mechanical Engineering Major</b>	<b>128</b>	<b>55</b>	<b>73</b>