Table 2: Civil Engineering

Dual Degree Program
Wisconsin Lutheran College
PHYSICS
and
University of Wisconsin- Milwaukee
CIVIL ENGINEERING

UW-MILWAUKEE REQUIREMENTS

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)**
General Education Requirements			
Arts	3	X	
Humanities	6	X	
Social Sciences	6	X	
Cultural Diversity		X	
Competencies		X	
Free Elective	2	X	
Natural Science Requirements			
CHEM 105 General Chemistry for Engineering	5	X	
PHYSICS 209 Physics I	4	X	
PHYSICS 210 Physics I	4	X	
Other Natural Science (GEO SCI, BIO SCI or ATM SCI)	3	X	
Mathematics Requirements			
MATH 231 Calculus and Analytic Geometry	4	X	
MATH 232 Calculus and Analytic Geometry	4	X	
MATH 233Calculus and Analytic Geometry	4	X	
ELECENG 234 Analytical Methods in Engineering	4	X	
Engineering Core Requirements			
IND ENG 111 Introduction to Engineering	3		X
IND ENG 112 Engineering Drawing & CAD	3		X
IND ENG 360 Engineering Economics	3		X
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
MATLENG 201 Basic Engineering Materials	4		X
MECHENG 301 Basic Engineering Thermodynamics	3	X	
MECHENG 320 Intro to Fluid Mechanics	3		X
Civil Engineering Major Requirements			
CIV ENG 250 Engineering Surveying	3		X
CIV ENG 280 Computer-Based Engineering Analysis	3		X
CIV ENG 335 Soil Mechanics	4		X
CIV ENG 372 Introduction to Structural Design	4		X
CIV ENG 411 Engineering Principles of Water Resources Design	3		X
CIV ENG 413 Environmental Engineering	3		X
CIV ENG 490 Transportation Engineering	3		X
CIV ENG 494 Principles of Civil Engineering Design	1		X
CIV ENG 495 Senior Design	3		X
Civil Engineering Technical Electives - 21			
TECHNICAL ELECTIVES – Group A	18		X
PHYSICS Course 300+ Level	3	X	
Total Credits - Civil Engineering Major	127	58	69