

Table 2: Electrical Engineering

Dual Degree Program Wisconsin Lutheran College PHYSICS and University of Wisconsin- Milwaukee ELECTRICAL 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 Electives	3	X	
Natural Science Requirements			
CHEM 102 General Chemistry	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	
Mathematics Requirements			
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	
Engineering Core Requirements			
COMPSI 240 Intro Engineering Programming	3		X
EAS 200 Professional Seminar	1		X
MATLENG 201 Basic Engineering Materials	4		X
MECHENG 301 Basic Engineering Thermodynamics	3	X	
Electrical Engineering Major Requirements			
ELECENG 101 Fundamentals of Electrical Engineering	3		X
ELECENG 301 Electrical Circuits I	3		X
ELECENG 305 Electrical Circuits II	4		X
ELECENG 310 Signals and Systems	3		X
ELECENG 330 Electronics I	4		X
ELECENG 335 Electronics II	4		X
ELECENG 354 Digital Logic	3		X
ELECENG 361 Electromagnetic Fields	3	X	
ELECENG 362 Electromechanical Energy Conversion	4		X
ELECENG 367 Introduction to Microprocessors	4		X
ELECENG 420 Random Signals and Systems	3		X
ELECENG 595 Capstone Design Project	4		X
Electrical Engineering Technical Electives – 24 Credits			
Group A Technical Electives	18		X
PHYSICS Course 300+ Level Group B Electives	6	X	
Total Credits - Electrical Engineering Major	126	61	65