

Table 2: Computer Engineering

Dual Degree Program Wisconsin Lutheran College PHYSICS and University of Wisconsin- Milwaukee COMPUTER 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	
Natural Science Requirements			
CHEM 105 General Chemistry for Engineering	5	X	
PHYSICS 209 Physics I	4	X	
PHYSICS 210 Physics I	4	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			
COMPSCI 240 Intro Engineering Programming	3		X
EAS 200 Professional Seminar	1		X
ELECENG 301 Electrical Circuits I	3		X
IND ENG 467 Intro Statistics Physical Sciences & Engineering	3	X	
Computer Engineering Major Requirements			
COMPSCI 250 Introduction to Computer Programming	3	X	
COMPSCI 251 Intermediate Computer Programming	3	X	
COMPSCI 317 Discrete Information Structures	3		X
COMPSCI 337 Systems Programming	3		X
COMPSCI 351 Data Structures & Algorithms	3	X	
COMPSCI 361 Introduction to Software Engineering	3		X
COMPSCI 395 Social, Professional & Ethical Issues	3		X
COMPSCI 458 Computer Architecture	3		X
COMPSCI 520 Computer Networks	3		X
COMPSCI 535 Algorithm Design & Analysis	3		X
COMPSCI 537 Introduction to Operating Systems	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 367 Introduction to Microprocessors	4		X
ELECENG 457 Digital Logic Laboratory	3		X
Computer Engineering Technical Electives – 16 Credits			
ELECENG 361 Electromagnetic Fields	3	X	
MECHENG 301 Basic Engineering Thermodynamics	3	X	
Technical Electives	10		X
Total Credits - Computer Engineering Major	126	59	67