

COMPUTER ENGINEERING MAJOR, B.S.

Course	Title	Credits
General Requirements		
General Education (http://catalog.uwplatt.edu/undergraduate/degree-requirements/bachelor-of-science-degree-core-curriculum/)		
Mathematics Courses ¹		
MATH 2640	Calculus and Analytic Geometry I	4
MATH 2730	Discrete Mathematics	3
MATH 2740	Calculus and Analytic Geometry II	4
MATH 2840	Calculus and Analytic Geometry III	4
MATH 3630	Differential Equations I	3
Basic Sciences Courses ¹		
CHEMISTRY 1140	General Chemistry I	4
PHYSICS 2240	General Physics I	4
PHYSICS 2340	General Physics II	4
Computer Science Courses ¹		
COMPUTER 1430	Introduction to Computer Programming	3
COMPUTER 2430	Object-Oriented Programming	3
COMPUTER 2630	Data Structures	3
COMPUTER 3230	Operating Systems	3
COMPUTER 3830	Data Communications and Computer Networks	3
Computer Engineering Courses ¹		
COMPENG 1020 or ELECTENG 1020	Computer Engineering Projects & Tools Electrical Engineering Projects and Tools	1
COMPENG 2220 or ELECTENG 2210	Circuit Modeling II Circuit Modeling II	2-4
COMPENG 2780	Logic and Digital Design	4
COMPENG 3010	Advanced Computer Networks	4
COMPENG 3780	Computer Architecture	4
COMPENG 4320	Digital Signal Processing	4
COMPENG 4720	Computer Organization and Design	4
COMPENG 4930	Senior Design	3
Electrical Engineering Courses ¹		
ELECTENG 1210	Circuit Modeling I	3
ELECTENG 3210	Engineering Computation	3
ELECTENG 3220	Signals and Systems	4
Other Courses		
INDSTENG 3730	Engineering Management ¹	3
ENERGY 2130	Energy, Environment, and Society	3
Technical Electives ¹		15
Total Credits		102-104

TECHNICAL ELECTIVES ¹

Course	Title	Credits
Complete a minimum of 15 credits from the list: ¹		15
COMPENG 3510	Computer Networks Applications	
COMPENG 4020	Applications of Deep Learning in Computer Vision	
COMPUTER 4030	Machine Learning	
COMPENG 4750	Advanced Digital Design	
ELECTENG 4940	Undergraduate Research	
ELECTENG 4990	Independent Study	

2 Computer Engineering Major, B.S.

¹ All courses require a 'C-' or better.