

Int Engr - Embedded Software Degree Plan (2025/26 catalog)

First Year				
Fall		Spring		
ENGR 101: Introduction to Engineering	3	ENGR 102 or ENGR 103	3	
MATH 150: Calculus I	4	PHYS 270/270L: Mechanics & Lab	4	
COMP 110: Computational Problem Solving	3.5	MATH 151: Calculus II	4	
Core Curriculum	3	CHEM 151/151L: General Chemistry I & Lab	4	
Core Curriculum	3	Core Curriculum	3	
Total Semester Units		16.5	Total Semester Units	
16.5		18		
Second Year				
Fall		Spring		
ENGR 102 or ENGR 103	3	GENG 250: Integrated Approach to Energy	3	
MATH 310: Applied Math for Engineering	3	COMP 120: Programming Abstractions	3.5	
PHYS 271/271L: Intro to Elec. and Magnet. & Lab	4	GENG 288: Integrated Approach to EE	4	
Core Curriculum	3	MATH 262: Discrete Math	3	
Core Curriculum	3	Core Curriculum	3	
Total Semester Units		16	Total Semester Units	
16		16.5		
Third Year				
Fall		Spring		
GENG 311: Engineering Materials Science	3	GENG 360: Experimental Engineering	3	
MENG 210: Statics	3	GENG 380: Sustainability and Engineering	3	
ISYE 330: Engineering Probability and Statistics	3	GENG 421 - Embedded Systems Performance	3	
COMP 280: Intro to Computer Systems	3.5	COMP 310: Operating Systems	3.5	
Core Curriculum	3	Core Curriculum	3	
Total Semester Units		15.5	Total Semester Units	
15.5		15.5		
Fourth Year				
Fall		Spring		
GENG 350: Engineering and Social Justice	3	COMP 375: Networking	3.5	
GENG 422: Advanced Embedded Software Dev	3	COMP 365: Principles of Info. Security	3	
GENG: 491 Engineering Senior Design I	4	GENG 492: Engineering Senior Design II	3	
COMP 300: Principles of Digital Hardware	3.5	Engineering Elective (Upper Division)	3	
Core Curriculum	3	Core Curriculum	3	
Total Semester Units		16.5	Total Semester Units	
16.5		15.5		
Final Semester				
Fall				
Engineering Elective (lower or upper division)	3			
Math/Sci elective (based on concentration)	3			
Core Curriculum	3			
Free Elective	3-9			
Total Semester Units		Total GENG Degree Units		
12-18		147		