University of San Diego Shiley-Marcos School of Engineering
GE - Embedded Software Conc. Degree Plan(2019/20 catalog)

First Year

Fall			Spring	
ENGR 101: Introduction to Engineering	3		ENGR 102: Electromechanical System Design	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/L: Chem +lab or ENGR 121: Engr Prog.	4
Core Curriculum	3		Core Curriculum	3
Total Hours	**16.5**		**Total Hours**	**18**

Second Year

Fall			Spring	
ENGR 103: User-Centered Design	3		ELEC 201/L: Electrical Circuits	4
MATH 310: Applied Math for Engineering	3		COMP 120: Programming Abstractions	3
PHYS 271/L: Intro to Electricity & Magnet. +lab	4		MENG 210: Statics	3
Core Curriculum	3		MENG 260: Intro to Thermal Sciences	3
Core Curriculum	3		MATH 262: Discrete Math	3
Total Hours	**16**		**Total Hours**	**16**

Third Year

Fall			Spring	
ENGR 311: Engineering Materials Science	3		GENG 360: Experimental Engineering	3
GENG 350: Engineering and Social Justice	3		ISYE 380: Sustainability and Engineering	3
ISYE 330: Engineering Probability and Statistics	3		COMP 310: Operating Systems	3.5
COMP 280: Intro to Computer Systems	3.5		GEMG 421 - Embedded Systems Performance	3
Core Curriculum	3		Core Curriculum	3
Total Hours	**15.5**		**Total Hours**	**15.5**

Fourth Year

Fall			Spring	
COMP 300: Principles of Digital Hardware	4		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
Core Curriculum	3		Core Curriculum	3
Concentration Elective	3		Core Curriculum	3
Total Hours	**17**		**Total Hours**	**15.5**

Final Semester

Fall				
Core Curriculum	3		**Total GENG Degree Hours**	**147**
Core Curriculum	3			
Math/Sci elective	3			
Free Elective	4			
Free Elective	3			
Total Hours	**16**			