



# University of San Diego Shiley-Marcos School of Engineering

GE -Sustainability Concentration Degree Plan(2018/19 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	4
Core Curriculum	3	Core Curriculum	3
Total Hours		16.5	Total Hours 18

## Second Year

Fall		Spring	
ENGR 103: User-Centered Design	3	EOSC 104/110: Nat. Disasters/Geosciences	4
MATH 310: Applied Math for Engineering	3	GENG 288: Integrated Approach to EE	4
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	COMP 120: Prog. Abstractions & Methods	3.5
Total Hours		16	Total Hours 17.5

## Third Year

Fall		Spring	
ENGR 311: Engineering Materials Science	3	GENG 360: Experimental Engineering	4
GENG 350: Engineering and Social Justice	3	ISYE 380: Sustainability and Engineering	3
ISYE 330: Engineering Probability and Statistics	3	EOSC 300: Environmental Issues	3
Engr Elect/COMP 280: Intro to Computer Systems	3.5	GENG 384: Remediation & Treatment	3
EOSC 121/123: Organisms/Life in the Ocean	4	Core Curriculum	3
Total Hours		16.5	Total Hours 16

## Fourth Year

Fall		Spring	
GENG 491: Engineering Senior Design I	4	GENG 492: Engineering Senior Design II	3
GENG 383: City Design Using GIS	4	GENG 482: PV Solar Energy	3
EOSC Elective - group B	4	Sustainability Group A/B/C elective	3
Core Curriculum	3	Core Curriculum	3
Core Curriculum	3	Core Curriculum	3
Total Hours		18	Total Hours 15

## Final Semester

Fall			
COMM 203: Public Speaking	3	Total GENG Degree Hours 147	
Sustainability Group A/B/C elective	4		
MATH 250: Calculus III	4		
Free Elective	3 to 6		
Total Hours			