University of San Diego SHILEY-MARCOS SCHOOL OF ENGINEERING

University of San Diego Shiley-Marcos School of Engineering

Int Engr -Sustainability Conc. Degree Plan(2023/24 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/L: Chem +lab	**4**
Core Curriculum	**3**		Core Curriculum	**3**
Total Hours	**16.5**		**Total Hours**	**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**		GENG 288: Integrated Approach to EE	**4**
PHYS 271/L: Intro to Electricity & Magnet. +lab	**4**		MENG 210: Statics	**3**
Core Curriculum	**3**		Core Curriculum	**3**
Core Curriculum	**3**		MATH 250: Calculus III	**4**
Total Hours	**16**		**Total Hours**	**17**
Third Year				
Fall			**Spring**	
GENG 311: Engineering Materials Science	**3**		GENG 360: Experimental Engineering	**3**
EOSC 105/110: Nat. Disasters/Geosciences	**4**		GENG 380: Sustainability and Engineering	**3**
ISYE 330: Engineering Probability and Statistics	**3**		EOSC 121 or 123	4
Concentration-Group A	**3-4**		Concentration-Group A/B/C	**3-4**
Core Curriculum	**3**		Core Curriculum	**3**
Total Hours	**16-17**		**Total Hours**	**16-17**
Fourth Year				
Fall			**Spring**	
GENG 491: Engineering Senior Design I	**4**		GENG 492: Engineering Senior Design II	**3**
Concentration-Group A	**3-4**		Concentration-Group A	**3-4**
EOSC 300: Environmental Issues	**3**		Concentration- Group A/B/C elective	**3-4**
GENG 350: Engineering and Social Justice	**3**		Engineering Elective (upper division)	**3**
Core Curriculum	**3**		Core Curriculum	**3**
Total Hours	**16-17**		**Total Hours**	**15-18**
Final Semester				
Fall				
Core Curriculum	**3**		**Total GENG Degree Hours**	**147**
Concentration-Group B	**3-4**			
Engineering Elective (lower or upper division)	**3**			
Free Elective	**3 to 6**			