University of San Diego SHILEY-MARCOS SCHOOL OF ENGINEERING

University of San Diego Shiley-Marcos School of Engineering

Mechanical Engineering 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	**4**
Core Curriculum	**3**		Core Curriculum	**3**
Total Hours	**16**		**Total Hours**	**18**
Second Year				
Fall			**Spring**	
ENGR 103: User-Centered Design	**3**		ELEC 201: Electrical Circuits	**4**
PHYS 271/L: Intro to Electricity & Magnet.+lab	**4**		MATH 250: Calculus III	**4**
MATH 310: Diff. Eq. & Linear Algebra	**3**		MENG 210: Statics	**3**
ECON 101/102 or ISYE 220: Economics	**3**		MENG 260: Intro to Thermal Science	**3**
Core Curriculum	**3**		COMM 203: Public Speaking	**3**
Total Hours	**16**		**Total Hours**	**17**
Third Year				
Fall			**Spring**	
MENG 311: Engineering Materials Science	**3**		MENG 350 or ISYE 350: Manufacturing Processes	**3**
MENG 300: Applied Thermodynamics	**3**		MENG 360: Fluid Mechanics	**3**
MENG 351: Machine Shop Practices	**1**		MENG 370, 370L: Mechanics of Materials	**4**
MENG 352: CAD Practices	**1**		MENG Elective	**3**
MENG 375: Dynamics	**3**		ENGL 304: Advanced Writing	**3**
ISYE 330: Engr Probability & Statistics	**3**			
Math/Science elective	**3**			
Total Hours	**17**		**Total Hours**	**16**
Fourth Year				
Fall			**Spring**	
MENG 400, 400L: Heat Transfer	**4**		MENG 492: Senior Design Project II	**3**
MENG 430: Design of Machine Elements	**3**		MENG Elective - Simulation Based	**3**
MENG 491: Senior Design Project I	**3**		MENG Elective	**3**
PHIL 342: Engineering Ethics	**3**		MENG Elective	**3**
MENG Elective	**3**		Core Curriculum	**3**
Total Hours	**16**		**Total Hours**	**15**
Final Semester				
Fall				
MENG Elective	**3**		**Total MENG Degree Hours**	**147**
Core Curriculum	**3**			
Core Curriculum	**3**			
Core Curriculum	**4**			
Total Hours	**13**			