University of San Diego SHILEY-MARCOS SCHOOL OF ENGINEERING

University of San Diego Shiley-Marcos School of Engineering

Mechanical Engineering 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
ENGR 121: Engr Prog	3		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
Core Curriculum	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**	
ENGR 311: Engineering Materials Science	3		MENG 350 or ISYE 350: Manufacturing Processes	3
MENG 300: Applied Thermodynamics	3		MENG 360, 360L: Fluid Mechanics	4
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			
Core Curriculum	3			
Total Hours	**17**		**Total Hours**	**17**
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	4		MENG Elective	3
PHIL 342: Engineering Ethics	3		MENG Elective	3
Elective	3		Core Curriculum	3
Total Hours	**17**		**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**			