

University of San Diego Shiley-Marcos School of Engineering

GE - Engineering and the Law Degree Checklist (2018/19 catalog)

Complete	Core Curriculum	Course that Satisfies Requirement	Units
	First Year Writing (CFYW)	FYW 150	3
	Mathematical Reasoning (CMRP)	MATH 150	
	Second Language Competency		3 to 9
	Lower-Division Theological and Religious Inquiry (FTRI)		3
	Upper-Division Theological and Religious Inquiry (FTRI)		3
	Philosophical Inquiry (FPHI)		3
	Ethical Inquiry (FETI)	PHIL 342	3
	Scientific and Technological Inquiry (ESTI)	ENGR 101	
	Historical Inquiry (EHSI)		3
	Social and Behavioral Inquiry (ESBI)		3
	Literary Inquiry (ELTI)		3
	Artistic Inquiry (EARI)		3
	Diversity, Inclusion, Social Justice (FDD1)	ENGR 103	
	Diversity, Inclusion, Social Justice (FDD2 or FDG2)	GENG 350	
	Advanced Writing (CADW)	GENG 350	
	Oral Communication (CORL)	COMM 203	3
	Quantitative Reasoning (CQUR)	ISYE 330	
	First Year Integration (CINL)	LLC course	
	Advanced Integration (CINT)	GENG 492	
Complete	Math/Science Courses	Prerequisites/(Corequisites)	
	CHEM 151/151L - General Chemistry		4
	Additional Math or Science (based on concentration)		3
	MATH 150 - Calculus I		4
	MATH 151 - Calculus II	MATH 150	4
	MATH 310 - Applied Math for Science and Engineering I	MATH 151	3
	MATH 250 - Calculus III	MATH 151	3
	ISYE 330 - Engineering Probability & Statistics	MATH 151	3
	PHYS 270/270L - Mechanics +lab	MATH 150	4
	PHYS 271/271L - Electricity & Magnetism +lab	PHYS 270, MATH 151	4
Complete	Engineering Core Courses	Prerequisites/(Corequisites)	32
	ENGR 101 - Introduction to Engineering	MATH 115 or (MATH 150)	3
	ENGR 102 - Electromechanical System Design	ENGR 101, ENGR 121, MATH 150	3
	ENGR 103 - User-Centered Design	ENGR 101, MATH 150	3
	ENGR 121 or COMP 110 - Engineering Programming	(MATH 150)	3
Complete	GENG Required Courses	Prerequisites/(Corequisites)	12
	ELEC 201 or GENG 288 - Electrical Circuits	PHYS 271, (MATH 310)	4
	ENGR 311 - Engineering Materials Science	CHEM 151, MATH 151, PHYS 271	3
	COMP 280 - Intro to Computer Sys (or other)	COMP 151/120	3.5
	ISYE 380 - Sustainability and Engineering		3
	MENG 210 - Statics	PHYS 270, MATH 150	3
	MENG 260 - Intro to Thermal Sciences	PHYS 270, MATH 151	3
	GENG 221 - Software Foundations	ENGR 101, ENGR 121, MATH 150, (MATH 151, PHYS 270)	3
	GENG 350 - Engineering and Social Justice	ENGR 102, ENGR 103	3
	GENG 360 - Experimental Engineering	ENGR 102, ELEC 201, MENG 210, MENG 260, ENGR 311	3
	GENG 491 - Engineering Senior Design I	GENG 350&360 or ELEC 301&310 or MENG 430&435	4
	GENG 492 - Engineering Senior Design II	GENG 491	3
Complete	Individual Plan of Study (IPS)		35.5
	Upper Div ENGR courses - choose 4		12
	Law related Courses Choose 4		12
	- at least 2 from same group, at least 1 outside of that group		
			24
		Total GENG units	147