

Int Engr - Engineering and the Law Degree Checklist (2024/25 catalog)

Complete	Core Curriculum (33-39 Units)	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)		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 (32-33 Units)	Prerequisites/(Corequisites)	
	CHEM 151/151L - General Chemistry I & Lab	(MATH 115 or MATH 150 or MATH 151)	4
	Additional Math or Science (based on concentration)		3
	MATH 150 - Calculus I		4
	MATH 151 - Calculus II	MATH 150 (C- or better)	4
	MATH 310 - Applied Math for Science and Engineering I	MATH 151 (C- or better)	3
	MATH 250 - Calculus III or MATH 262 - Discrete Math	MATH 151 (C- or better)	3 - 4
	ISYE 330 - Engineering Probability & Statistics	MATH 151	3
	PHYS 270/270L - Mechanics & Lab	MATH 150	4
	PHYS 271/271L - Electricity & Magnetism & Lab	PHYS 270 (C- or better), MATH 151	4
Complete	Engineering Core Courses (12.5 Units)	Prerequisites/(Corequisites)	
	ENGR 101 - Introduction to Engineering	(MATH 150)	3
	ENGR 102 - Electromechanical System Design	ENGR 101, COMP 110, (MATH 151)	3
	ENGR 103 - User-Centered Design	ENGR 101, (MATH 151)	3
	COMP 110 - Computational Problem Solving	MATH 115 or placement in MATH 130 or higher	3.5
Complete	GENG Required Courses (35 Units)	Prerequisites/(Corequisites)	
	GENG 250: Integrated Approach to Energy	(PHYS 271, PHYS 271L, ENGR 102, ENGR 103, MATH 310)	3
	GENG 311 - Engineering Materials Science	CHEM 151/151L, MATH 151, PHYS 271/271L	3
	GENG 288: Integrated Approach to Electrical Engineering	PHYS 271, MATH 310	4
	GENG 380 - Sustainability and Engineering		3
	MENG 210 - Statics	PHYS 270, MATH 150	3
	Engineering Elective (lower or upper division)		3
	Engineering Elective (upper division)		3
	GENG 350 - Engineering and Social Justice	ENGR 103, (GENG 250 or GENG 288 or MENG 311)	3
	GENG 360 - Experimental Engineering	ENGR 102, GENG 288 or ELEC 201, MENG 210, GENG 250 or MENG 260, COMP 110, MATH 310, (ISYE 330)	3
	GENG 491 - Engineering Senior Design I	GENG 360, (GENG 350)	4
	GENG 492 - Engineering Senior Design II	GENG 491	3
Complete	Engineering and the Law Concentration (24 Units)	Notes for Engineering and the Law Concentration	
	Upper Div ENGR courses - choose 4		12
	Law related Courses Choose 4	at least 2 from same group, at least 1 outside of that group	12
Complete	Additional Requirements	Notes for Additional Requirements	
	Connect (Career Readiness Program)	Complete 12 points (orientation, networking, senior survey, and 9 flex points)	
	Free Electives	Complete additional units needed to meet 147 Unit requirement for degree	
Total GENG Degree Units			147

Upper Division Engineering: Any GENG, COMP, ELEC, ISYE or MENG course 300 level or above that is not already required in the curriculum.

Law Group A Public Law: POLS 220, POLS 321, POLS 322D, POLS 326, POLS 327, POLS 329, SOCI 270, SOCI 346

Law Group B Business Law: ECON 327, ETLW 311, ETLW 312, ETLW 313, LWBC 590

Law Group C Health Law: LWGC 523, LWGC 536, LWGC 534, PHIL 331

Law Group D Energy Law: LWEV 597, LWPP 540

Law Group E Intel. Property: LWGC 526, LWIP 525, LWIP 540, LWIP 550, LWIP 555, LWIP 559, LWIP 564, LWIP 568, LWIP 569, LWIP 570, LWIP 571, LWIP 572, LWIP 577, LWIP 580

Law Group F Legal Reasoning: LWCR 570, PHIL 461, PHIL 333, PHIL 460, PHIL 461