

Int Engr - Engineering and the Law Degree Checklist (2026/27 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)		3
	Critical Thinking (CCTH)	GENG 360	
	Information Literacy (CILT)		
	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
	MATH 150 - Calculus I	MATH 115 (C- or higher) or placement in MATH 133/150	4
	MATH 151 - Calculus II	MATH 150 (C- or higher)	4
	MATH 310 - Applied Math for Science and Engineering I	MATH 151 (C- or higher)	3
	MATH 250 - Calculus III or MATH 262 - Discrete Math	MATH 151 (C- or higher)	3 - 4
	ISYE 330 - Engineering Probability & Statistics	MATH 151	3
	PHYS 270/270L - Mechanics & Lab	MATH 150 (C- or higher)	4
	PHYS 271/271L - Electricity & Magnetism & Lab	PHYS 270 (C- or higher), MATH 151	4
	Additional Math or Science (based on concentration)		3
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 133/150	3.5
Complete	GENG Required Courses (35 Units)	Prerequisites/(Corequisites)	
	MENG 210 - Statics	PHYS 270, MATH 150	3
	GENG 250 - Integrated Approach to Energy	COMP 110, (ENGR 103), (PHYS 271), (PHYS 271L)	3
	GENG 288 - Integrated Approach to Electrical Engineering	PHYS 271, (MATH 310)	4
	GENG 311 - Engineering Materials Science	CHEM 151, CHEM 151L, MATH 151, (PHYS 271)	3
	GENG 350 - Engineering and Social Justice	ENGR 103, GENG 250 or GENG 288 or GENG 311	3
	GENG 360 - Experimental Engineering	ENGR 102, GENG 288, MENG 210, GENG 250, COMP 110, MATH 310, ISYE 330	3
	GENG 380 - Sustainability and Engineering	Junior Standing	3
	GENG 491 - Engineering Senior Design I	GENG 360	4
	GENG 492 - Engineering Senior Design II	(GENG 350), GENG 491	3
	Engineering Elective (lower or upper division)	See Undergraduate Catalog for respective course prerequisites/corequisites	3
	Engineering Elective (upper division)	See Undergraduate Catalog for respective course prerequisites/corequisites	3
Complete	Engineering and the Law Concentration (24 Units)	Notes for Engineering and the Law Concentration	
	Upper Division Engineering Courses - Choose 4	Any Upper Division course in SMSE not already required in curriculum	12
	Law Related Courses - Choose 4	See approved list of courses below (students can choose from any Law 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 534, LWGC 536, 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 333, PHIL 460, PHIL 461