

Int Engr - Engineering with Artificial Intelligence 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)	PHIL 348	
	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	Placement in or completion of MATH 115 or MATH 133/150 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 250: MATH 151 (C- or higher) MATH 262: MATH 150	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 and Magnetism & Lab	PHYS 270/270L (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	COMP 110, ENGR 102, GENG 250, GENG 288, ISYE 330, MATH 310, MENG 210	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 with AI Concentration Core (12.5 Units)	Prerequisites/(Corequisites)	
	COMP 120 - Programming Abstractions and Methodologies	COMP 110 (C- or higher)	3.5
	COMP 351 - Introduction to Artificial Intelligence	(COMP 110)	3
	PHIL 348 - Ethics of AI & Robotics		3
	GENG 340 - AI Tools for Engineering Practice	COMP 110, ENGR 103, GENG 250 or GENG 288 or GENG 311	3
Complete	Engineering with AI Concentration Elective (12 Units)	Prerequisites/(Corequisites)	
	EAI Elective I*	See Undergraduate Catalog for respective course prerequisites/corequisites	3
	EAI Elective II*	See Undergraduate Catalog for respective course prerequisites/corequisites	3
	EAI Elective III*	See Undergraduate Catalog for respective course prerequisites/corequisites	3
	EAI Elective IV*	See Undergraduate Catalog for respective course prerequisites/corequisites	3
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

* Students must select 12 units of EAI concentration electives. Six units of these electives must be upper division. Three courses must be from Computer Science or Engineering. The currently approved electives include COMP 230, COMP 280, COMP 305, COMP 333, COMP 352, COMP 353, GENG 430, and AAI 531. Consult with the INTE chair for other approved electives.