

ENGINEERING DESIGN (EGD)

Program of Study — Catalog Year 2023-2024

		Fall Semester				Spring Semester				
		Terms Offered	Course	Course Title	Hrs.	Terms Offered	Course	Course Title	Hrs.	
Freshman	F	EGR 200 ¹	Introduction to Engineering	3	Sp	EGR 194	Engineering Explorations	1		
	F, Sp, Su	EH 101	English Composition I	3	Sp	EGR 117	Engr Design & Innovation I: Design Thinking	3		
	F, Sp, Su	MA 125/L	Calculus I/Lab	4	F, Sp, Su	CH 117/R/118	General Chemistry II/Lab	4		
	F, Sp, Su	CH 115/R/116	General Chemistry I/Lab	4	F, Sp, Su	MA 126	Calculus II	4		
						F, Sp	EGR 103	Computer-Aided Graphics & Design	3	
Total Credits					14	Total Credits				
					14	15				
Sophomore	F, Sp, Su	PH 221/L	General Physics I/Lab	4	F, Sp, Su	CE 210	Statics	3		
	F, Sp	EGR 265 ²	Math Tools for Engineering Problem Solving	4	F, Sp	MSE 280	Engineering Materials	3		
	F	EGR 217	Engr Design & Innovation II: Prototyping	3	F, Sp, Su	PH 222/R/L	General Physics II and Lab	4		
	F, Sp	EGR 150	Computer Methods in Engineering	3	F, Sp	MA 260	Intro to Linear Algebra	3		
	F, Sp, Su	EH 102	English Composition II	3	F, Sp, Su	EE 312 or 314/R	Electrical Systems or Electrical Circuits	3		
Total Credits					17	Total Credits				
					17	16				
Junior	F, Sp	CE 220	Mechanics of Solids	3	F, Sp, Su	EGR ELECT ^{5,6}	BME/CE/EE/EGR/ME/MSE Course	3		
	F, Sp, Su	ME 215/R	Dynamics	3	F, Sp, Su	ELEC/CERT ⁴	Elective/Certificate Course	3		
	F, Sp, Su	ELEC/CERT ⁴	Elective/Certificate Course	3	Sp	EGR 317	Engr Design & Innovation III: Project Lab	3		
	F, Sp, Su	MA/SCI ²	Math/Science Elective	3	F, Sp, Su	Blazer Core ³	Reasoning	3		
	F, Sp, Su	EGR ELECT ^{5,6}	BME/CE/EE/EGR/ME/MSE Course	3	F, Sp, Su	Blazer Core ³	Creative Arts	3		
	F, Sp, Su	EGR ELECT ^{5,6}	BME/CE/EE/EGR/ME/MSE Course	3						
Total Credits					18	Total Credits				
					18	15				
Senior	F, Sp, Su	EGR ELECT ^{5,6}	BME/CE/EE/EGR/ME/MSE Course	3	F, Sp, Su	ELEC/CERT ⁴	Elective/Certificate Course	3		
	F, Sp, Su	EGR ELECT ^{5,6}	BME/CE/EE/EGR/ME/MSE Course	3	F, Sp, Su	ELEC/CERT ⁴	Elective/Certificate Course	3		
	F, Sp, Su	ELEC/CERT ⁴	Elective/Certificate Course	3	F, Sp, Su	ELEC/CERT ⁴	Elective/Certificate Course	3		
	F	EGR 498	Capstone Design I	3	SP	EGR 499	Capstone Design II	3		
	F, Sp, Su	Blazer Core ³	City as a Classroom	3	F, Sp, Su	Blazer Core ³	History & Meaning	3		
	F, Sp, Su	Blazer Core ³	Humans & Their Societies	3						
Total Credits					18	Total Credits				
					18	15				

1 EGR 200 preferred; other FYE courses accepted

2 May substitute MA 227 and MA 252 for EGR 265 and approved science or mathematics elective

3 Please refer to the Core Curriculum as specified for Engineering majors

4 Could be used to complete an additional minor or certificate

5 The following courses do not fulfill this requirement: CE 200, CE 344, EE 254, EE 300, EE 318, EE 485, ME 364

6 Must include courses to complete the chosen engineering minor