

ENGINEERING DESIGN (EGD)

Program of Study — Catalog Year 2020-2021

	Fall Semester				Spring Semester				
	Terms Offered	Course	Course Title	Hrs.	Terms Offered	Course	Course Title	Hrs.	
Freshman	F	EGR 110 ¹	Introduction to Engineering I	1	Sp	EGR 111 ¹	Introduction to Engineering II	1	
	F, Sp, Su	EH 101	English Composition I	3	F, Sp	EGR 117	Engr Design & Innovation I: Design Thinking	3	
	F, Sp, Su	MA 125	Calculus I	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, Su	ME 102	Engineering Graphics	2	F, Sp, Su	PH 221/R/L	General Physics I and Lab	4	
	Total Credits				14	Total Credits			
Sophomore	F, Sp, Su	CE 210	Statics	3	F, Sp, Su	ME 215/R	Dynamics	3	
	F, Sp	EGR 265 ²	Math Tools for Engineering Problem Solving	4	F, Sp	CE 220	Mechanics of Solids	3	
	F, Sp	EGR 217	Engr Design & Innovation II: Prototyping	3	F, Sp, Su	PH 222/R/L	General Physics II and Lab	4	
	F, Sp, Su	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	HFA/SBS ³	Area II/IV Core Curriculum	3	
	Total Credits				16	Total Credits			
Junior	F, Sp, Su	EE 312 or 314/R	Electrical Systems or Electrical Circuits	3	F, Sp, Su	ENGR ELECT ^{5,6}	BME/CE/EE/EGR/ME/MSE Course	3	
	F, Sp, Su	MSE 280	Engineering Materials	3	F, Sp, Su	ENGR ELECT ^{5,6}	BME/CE/EE/EGR/ME/MSE Course	3	
	F	EGR 317	Engr Design & Innovation III: Project Lab	3	F, Sp, Su	ELEC/CERT ⁴	Elective/Certificate Course	3	
	F, Sp, Su	MA/SCI ²	Math/Science Elective	3	F, Sp, Su	HFA/SBS ³	Area II/IV Core Curriculum	3	
	F, Sp, Su	ELEC/CERT ⁴	Elective/Certificate Course	3	F, Sp, Su	HFA/SBS ³	Area II/IV Core Curriculum	3	
	F, Sp, Su	ENGR ELECT ^{5,6}	BME/CE/EE/EGR/ME/MSE Course	3					
Total Credits				18	Total Credits				15
Senior	F, Sp, Su	ENGR ELECT ^{5,6}	BME/CE/EE/EGR/ME/MSE Course	3	F, Sp, Su	ENGR ELECT ^{5,6}	BME/CE/EE/EGR/ME/MSE Course	3	
	F, Sp, Su	ENGR 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	HFA/SBS ³	Area II/IV Core Curriculum	3	F, Sp, Su	HFA/SBS ³	Area II/IV Core Curriculum	3	
	F, Sp, Su	HFA/SBS ³	Area II/IV Core Curriculum	3					
Total Credits				18	Total Credits				15

1 Transfer students substitute EGR 200 (2hrs) for EGR 110/111

2 May substitute MA 227 and MA 252 for EGR 265 and one 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