

ENGINEERING DESIGN (EGD)

Program of Study — Catalog Year 2026-2027

| | | 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 | F, 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 | | | | 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, Su | 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 | | | | 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 | | | | 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 | | | | 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