

Discipline-Focused Course Options

Up to 3 courses of equal or greater credit value from an engineering discipline list may be replaced with unused courses from the following list:

Course	Credits	Semester	Prereq.
BIO 181 General Biology I	4	Fall	
BIO 182 General Biology II	4	Spring	BIO 182
BIO 201 Human Anatomy I	4	Fall/Spring	BIO 100
BIO 202 Human Anatomy II	4	Fall/Spring	BIO 201
BIO 205 Microbiology	4	Fall/Spring	BIO 100
CHM 235 Organic Chemistry I	4	Fall	CHM 152
CHM 236 Organic Chemistry II	4	Spring	CHM 235
DRF 154 Introduction to AutoCAD	2-3	Fall/Spring	
DRF 220 Parametric Solid Modeling	3	Spring	DRF 154
DRF 230 Civil Drafting	3	Fall	DRF 154
DRF 232 Structural Drafting	2-3	Spring	DRF 154
DRF 235 Geographic Information Systems I	2	Upon request	DRF 230
DRF 236 Geographic Information Systems II	3	Upon request	DRF 235
CMP 126 Java Programming I	3	Spring	
EGR 150 Digital Design Fundamentals	4	Fall	MAT 154
EGR 200 Introduction to Mining Engineering	3	Fall/Spring	
EGR 214 Statics	3	Fall	PHY 211
EGR 215 Dynamics	3	Spring	EGR 214
EGR 220 Circuits	5	Spring	MAT 260, PHY 212
EGR 233 Mechanics of Materials	3	Spring	EGR 214
EGR 255 Thermodynamics	3	Spring	CHM 151, MAT 230, PHY 211
EGR 296A Mineral Resource Seminar	1	Fall	
GLG 101 Physical Geology	4	Fall	
MAT 160 Introduction to Statistics	3	Fall/Spring	MAT 140
MAT 225 Linear Algebra	3	Fall	MAT 220
PHY 213 Physics with Calculus III	5	Spring	MAT 221, PHY 211

Total Minimum Degree Requirements

Total Credits	72-82
Total Curriculum Requirements	36-46
Total General Education Requirements	36

Notes:

This is a recommended sequence of courses and should be modified to meet individual needs. The sequence assumes that first-semester students meet the pre-requisites for Calculus I (MAT 221).

Selections for the "Discipline-Focused Courses" should be made based upon the student's discipline of choice (Civil, Mechanical, etc.) and the degree requirements of the student's target Bachelor program. Consultation with EAC Engineering faculty advisor is strongly recommended to ensure that students effectively complete everything they can prior to transferring.

This recommended sequence also dictates specific courses that must be taken to meet General Education requirements. Consult the current EAC course catalog to determine appropriate Humanities and Social Sciences to take, which will include classes in the Diversity and Inclusion, Global/ International/Historical Awareness, and Intensive Writing categories. All courses must be completed with a grade of "C" or better.