

ENGINEERING PATHWAYS

Plan of Study¹ – Elgin Community College

First Year – Option 1

Fall Semester		Hours
MTH 190	Calculus with Analytic Geometry I	5
CHM 142	General Chemistry I	5
EGR 100	Introduction to Engineering	2
CIS 123 (or CIS 121 or MTH 123)	Computer Science for Engineering	4
General education or elective ²		3
Semester Hours		19
Spring Semester		
MTH 210	Calculus with Analytic Geometry II	5
CHM 143	General Chemistry II	5
PHY 211	Engineering Physics I	5
General education or elective		3
Semester Hours		18

First Year – Option 2

Fall Semester		
MTH 190	Calculus with Analytic Geometry I	5
CHM 142	General Chemistry I	5
EGR 100	Introduction to Engineering	2
General education or elective		3
General education or elective		3
Semester Hours		18
Spring Semester		
MTH 210	Calculus with Analytic Geometry II	5
CHM 143	General Chemistry II	5
PHY 211	Engineering Physics I	5
CIS 123 (or CIS 121 or MTH 123)	Computer Science for Engineering	4
Semester Hours		19

¹ Engineering Pathways is a cohort-based experience. As such, all technical coursework in the plan of study must be completed as listed and for a grade while enrolled in the program – this includes mathematics, physics, computer science, chemistry, and engineering.

² Course may be successfully completed for a letter grade prior to the first year, fall semester.

Second Year

Fall Semester

MTH 230	Calculus with Analytic Geometry III	5
PHY 212	Engineering Physics II	5
EGR 152	Statics	3
Major-specific technical course ³		3
Semester Hours		16

Spring Semester

Major-specific technical course		3
Major-specific technical course		3
Major-specific technical course		3
Major-specific technical course		3
General education or elective ⁴		3
Semester Hours		15
Electives		1
Total Hours:		69

General Education Categories⁵

Composition I	ENG 101 & ENG 102	4-6
Advanced Composition	typically completed after transfer	
Humanities & the Arts		3
Humanities & the Arts		3
Social & Behavioral Sciences	ECN 201 or ECN 202	3
Social & Behavioral Sciences		3
Western/Comparative Cultures		
Non-Western Cultures		
US Minority Cultures		
Language Other Than English (LOTE)		

³ Major-specific technical courses will be selected in consultation with a program advisor.

⁴ Optional if the four major-specific technical courses for the semester total at least 15 hours.

⁵ It is not mandatory that all UIUC General Education categories be completed prior to transfer. However, it is important adequate progress be made; otherwise, time to degree completion may be extended.