The Grainger College of Engineering
Engineering Pathways

Plan of Study[1] – 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 121 (or CIS 123 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 121 (or CIS 123 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 Categories[5]		
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 or PSY 100*	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.