



The Grainger College of Engineering
Engineering Pathways

Plan of Study¹ – Parkland College

First Year – Option 1

Fall Semester		Hours
MAT 128	Calculus/Analytic Geometry I	5
CHE 141	General Chemistry I	5
ENG 199 (UIUC) and FYE 101	Introduction to Engineering	3
CSC 123 (or CSC 127 or CSC 140)	Introduction to Computer Science I	3
General education or elective ²		3
Semester Hours		19
Spring Semester		
MAT 129	Calculus/Analytic Geometry II	4
CHE 142	General Chemistry II	5
PHY 141	Mechanics	4
General education or elective		3
Semester Hours		16

First Year – Option 2

Fall Semester		
MAT 128	Calculus/Analytic Geometry I	5
CHE 141	General Chemistry I	5
ENG 199 (UIUC) and FYE 101	Introduction to Engineering	3
General education or elective		3
General education or elective		3
Semester Hours		19
Spring Semester		
MAT 129	Calculus/Analytic Geometry II	4
CHE 142	General Chemistry II	5
PHY 141	Mechanics	4
CS 124 (or CS 101 or CSC 123 or CSC 127)	Introduction to Computer Science I	3
Semester Hours		16

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

MAT 228	Calculus/Analytic Geometry III	4
PHY 142	Electricity/Magnetism	4
ENS 201	Engineering Mechanics I (Statics)	3
Major-specific technical course ³		3
General education or elective ⁴		1
Semester Hours		15

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 ⁵		3
Semester Hours		15
Electives		4
Total Hours:		69

General Education Categories⁶

Composition I	<i>ENG 101 & ENG 102 or ENG 106</i>	4-6
Advanced Composition	<i>typically completed after transfer</i>	
Humanities & the Arts		3
Humanities & the Arts		3
Social & Behavioral Sciences	<i>ECO 101 or ECO 102 or PSY 101</i>	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.

^{4,5} Optional if the four major-specific technical courses for the semester total at least 15 hours.

⁶ 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.