



The Grainger College of Engineering
Engineering Pathways

Plan of Study¹ – College of Lake County

First Year – Option 1

Fall Semester		Hours
MTH 145	Calculus and Analytic Geometry I	5
CHM 121	General Chemistry I	5
EGR 120	Introduction to Engineering	1
MCS 141 (or MCS 140)	Computer Science I	4
General education or elective ²		3
Semester Hours		18
Spring Semester		
MTH 146	Calculus and Analytic Geometry II	4
CHM 123	General Chemistry II	5
PHY 123	Physics for Science and Engineering I	5
General education or elective		3
Semester Hours		17

First Year – Option 2

Fall Semester		
MTH 145	Calculus and Analytic Geometry I	5
CHM 121	General Chemistry I	5
EGR 120	Introduction to Engineering	1
General education or elective		3
General education or elective		3
Semester Hours		17
Spring Semester		
MTH 146	Calculus and Analytic Geometry II	4
CHM 123	General Chemistry II	5
PHY 123	Physics for Science and Engineering I	5
MCS 141 (or MCS 140)	Computer Science I	4
Semester Hours		18

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 246	Calculus and Analytic Geometry III	5
PHY 124	Physics for Science and Engineering II	5
EGR 125	Engineering Statics	3
Major-specific technical course ³		3
Semester Hours		16

Spring Semester

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

General Education Categories⁵

Composition I	<i>ENG 120 or 121 & ENG 122 or 126</i>	4-6
Advanced Composition	<i>typically completed after transfer</i>	
Humanities & the Arts		3
Humanities & the Arts		3
Social & Behavioral Sciences	<i>ECO 221 or ECO 222 or PSY 121</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 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.