



The Grainger College of Engineering

Engineering Pathways

Plan of Study¹ – Illinois Central College

First Year – Option 1

Fall Semester			Hours
MATH 222	Calculus and Analytical Geometry I		5
CHEM 130	General Chemistry I		4
ENGR 110	Introduction to Engineering		1
CMPSC 125 (or CMPSC 115)*	CS I: Programming in C++		3
General education or elective ²			3
Semester Hours			16
Spring Semester			
MATH 223	Calculus and Analytical Geometry II		4
CHEM 132	General Chemistry II		4
PHYS 211	Engineering Physics: Mechanics		4
General education or elective ²			3
Semester Hours			15

*CS Articulation will be determined upon meeting with your Engineering Pathways Advisor

First Year – Option 2

Fall Semester			
MATH 222	Calculus and Analytical Geometry I		5
CHEM 130	General Chemistry I		4
ENGR 110	Introduction to Engineering		1
General education or elective ²			3
General education or elective ²			3
Semester Hours			16
Spring Semester			
MATH 223	Calculus and Analytical Geometry II		4
CHEM 132	General Chemistry II		4
PHYS 211	Engineering Physics: Mechanics		4
CMPSC 125 (or CMPSC 115)*	CS I: Programming in C++		3
Semester Hours			15

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 Requests to enroll in a course other than a transferable Gen Ed (see General Education Categories) must be pre-approved by an Engineering Pathways advisor at UIUC.



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Second Year

Fall Semester

MATH 224	Calculus and Analytic Geometry III	4
PHYS 212	Electricity & Magnetism	4
ENGR 251	Engineering Mechanics: Statics	3
Major-specific technical course ³		3
General education or elective ⁴		3
Semester Hours		17

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		6
Total Hours:		69

General Education Categories⁵

Composition I	ENGL 110 & ENGL 111	4-6
Advanced Composition	typically completed after transfer	
Humanities & the Arts		3
Humanities & the Arts		3
Social & Behavioral Sciences	ECON 110 or ECON 111 or PSY 110	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.