



The Grainger College of Engineering
Engineering Pathways

Plan of Study¹ – City Colleges of Chicago

First Year – Option 1

Fall Semester		Hours
MATH 207	Calculus & Analytic Geometry I	5
CHEM 201	General Chemistry I	5
ENGR 111	Engineering Success Seminar	3
CIS 142*	C++ Object Oriented Programming I	3
General education or elective ²		3
Semester Hours		19
Spring Semester		
MATH 208	Calculus & Analytic Geometry II	5
CHEM 203	General Chemistry II	5
PHYSICS 235	Engineering Physics I: Mechanics & Wave Motion	5
General education or elective		3
Semester Hours		18

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

First Year – Option 2

Fall Semester		
MATH 207	Calculus & Analytic Geometry I	5
CHEM 201	General Chemistry I	5
ENGR 111	Engineering Success Seminar	3
General education or elective		3
General education or elective		3
Semester Hours		19
Spring Semester		
MATH 208	Calculus & Analytic Geometry II	5
CHEM 203	General Chemistry II	5
PHYSICS 235	Engineering Physics I: Mechanics & Wave Motion	5
CIS 142*	C++ Object Oriented Programming I	3
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

MATH 209	Calculus & Analytic Geometry III	5
PHYSICS 236	Engineering Physics II: Electricity & Magnetism	5
PHYSICS 215	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	<i>ENGLISH 101 & ENGLISH 102</i>	4-6
Advanced Composition	<i>typically completed after transfer</i>	
Humanities & the Arts		3
Humanities & the Arts		3
Social & Behavioral Sciences	<i>ECON 201 or ECON 202 or PSYCH 201</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.