



## The Grainger College of Engineering Engineering Pathways

### Plan of Study<sup>1</sup> – 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 (or CS 124 UIUC)*	C++ Object Oriented Programming I	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
General education or elective		3
Semester Hours		18

\*CS course must be approved by Engineering Pathways Advisor. All students interested in CS, CS + X, and ECE majors should follow option 1.

#### 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 (or CS 124)*	C++ Object Oriented Programming I	3
Semester Hours		18

<sup>1</sup> 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.

<sup>2</sup> 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.

## 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 <sup>3</sup>		3
Semester Hours		16

### Spring Semester

Major-specific technical course <sup>3</sup>		3
Major-specific technical course <sup>3</sup>		3
Major-specific technical course <sup>3</sup>		3
Major-specific technical course <sup>3</sup>		3
General education or elective <sup>4</sup>		3
Semester Hours		15
Electives		1
Total Hours:		69

### General Education Categories<sup>5</sup>

Composition I	<i>ENGLISH 101 &amp; 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)		

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<sup>3</sup> Major-specific technical courses will be selected in consultation with a program advisor.

<sup>4</sup> Optional if the four major-specific technical courses for the semester total at least 15 hours.

<sup>5</sup> 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.