



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 (or CS 124)* | C++ Object Oriented Programming I | 3 |
| Semester Hours | | 16 |
| 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 |
| Semester Hours | | 16 |
| 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 |

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.

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 | | 3 |
| Major-specific technical course ³ | | 3 |
| Major-specific technical course ³ | | 3 |
| Major-specific technical course ³ | | 3 |
| General education or elective ⁴ | | 3 |
| | Semester Hours | 15 |
| | Electives | 4 |
| | 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.