



The Grainger College of Engineering
Engineering Pathways

Plan of Study¹ – Southwestern Illinois College

First Year – Option 1

Fall Semester		Hours
MATH 203	Analytic Geometry and Calculus I	5
CHEM 105	General Chemistry I	5
MATH 170 (or MATH 171,210,CIS 187,252)*	Computer Science I – C++	4
General education ²		3
Semester Hours		17
Spring Semester		
MATH 204	Analytic Geometry and Calculus II	5
CHEM 106	General Chemistry II	5
PHYS 204	Physics – Mechanics	4
General education ²		3
Semester Hours		17

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

First Year – Option 2

Fall Semester		
MATH 203	Analytic Geometry and Calculus	5
CHEM 105	General Chemistry I	5
General education ²		3
General education ²		3
Semester Hours		16
Spring Semester		
MATH 204	Analytic Geometry and Calculus II	5
CHEM 106	General Chemistry II	5
PHYS 204	Physics – Mechanics	4
MATH 170 (or MATH 171,210,CIS 187,252)*	Computer Science I – C++	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 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 205	Analytic Geometry and Calculus III	4
PHYS 205	Physics – Heat, Elec, & Magnetism	4
ENGR 263	Analytical Mechanics – Statics	3
General education or technical elective ⁴		3
Major-specific technical course ³		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 technical elective ⁴		3
Semester Hours		15
Electives		3
Total Hours:		69

General Education Categories⁵

Composition I	<i>ENG 101 & ENG 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 PSYC 151</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.