



The Grainger College of Engineering
Engineering Pathways

Plan of Study¹ – Richland Community College

First Year – Option 1

Fall Semester		Hours
MATH 121	Calculus & Analytic Geometry 1	5
CHEM 131	General Chemistry I	4
CS*	Computer Science I	3
General education ²		3
Semester Hours		15
Spring Semester		
MATH 122	Calculus & Analytic Geometry 2	4
CHEM 132	General Chemistry 2	5
PHYS 151	Mechanics and Wave Motion	4
General education ²		3
Semester Hours		16

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

First Year – Option 2

Fall Semester		
MATH 121	Calculus & Analytic Geometry 1	5
CHEM 131	General Chemistry 2	4
General education ²		3
General education ²		3
Semester Hours		15
Spring Semester		
MATH 122	Calculus & Analytic Geometry 2	4
CHEM 132	General Chemistry 2	5
PHYS 151	Mechanics and Wave Motion	4
CS*	Computer Science I	3
Semester Hours		16

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 221	Calculus & Analytic Geometry 3	4
PHY 152	Electricity and Magnetism	4
ENGR 211	Statics	4
Major-specific technical course ³		3
	Semester Hours	15

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	8
	Total Hours:	69

General Education Categories⁵

Composition I	<i>ENGL 101 & ENGL 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 231 or ECON 232 or PSYCH 110</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.