



The Grainger College of Engineering
Engineering Pathways

Plan of Study¹ – Highland Community College

First Year – Option 1

Fall Semester		Hours
MATH 250	Analytic Geometry & Calculus I	5
CHEM 123	General College Chemistry I	5
INFT 190*	Principles of Computer Science I	3
PHYS 120	Intro to Engineering	3
General education ²		3
Semester Hours		19
Spring Semester		
MATH 255	Analytic Geometry & Calculus II	5
CHEM 124	General College Chemistry II	5
PHYS 143	General Physics I	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 250	Analytic Geometry & Calculus I	5
CHEM 123	General College Chemistry I	5
PHYS 120	Intro to Engineering	3
General education ²		3
General education ²		3
Semester Hours		19
Spring Semester		
MATH 255	Analytic Geometry & Calculus II	5
CHEM 124	General College Chemistry II	5
PHYS 143	General Physics I	4
INFT 190*	Principles of 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

MAT 269	Analytic Geometry & Calculus III	4
PHYS 144	General Physics II	4
PHYS 221	Statics	3
Major-specific technical course ³		3
General education or technical elective ⁴		3
	Semester Hours	17

Spring Semester

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 121 & ENGL 122</i>	4-6
Advanced Composition	<i>typically completed after transfer</i>	
Humanities & the Arts		3
Humanities & the Arts		3
Social & Behavioral Sciences	<i>ECON 111 or ECON 112 or PSY 161</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.