



The Grainger College of Engineering
Engineering Pathways

Plan of Study¹ – Joliet Junior College

First Year – Option 1

Fall Semester		Hours
MATH 170	Calculus with Analytical Geometry I	5
CHEM 101	General Chemistry I	5
CIS 135*	Intro to Programming	4
General education ²		3
Semester Hours		17
Spring Semester		
MATH 171	Calculus with Analytical Geometry II	4
CHEM 102	General Chemistry II	5
PHYS 201	Engineering Physics I	5
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 170	Calculus with Analytical Geometry I	5
CHEM 101	General Chemistry I	5
General education ²		3
General education ²		3
Semester Hours		16
Spring Semester		
MATH 171	Calculus with Analytical Geometry II	4
CHEM 102	General Chemistry II	5
PHYS 201	Engineering Physics I	5
CIS 135*	Intro to Programming	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 Year³

Fall Semester

MATH 172	Calculus with Analytical Geometry III	4
PHYS 202	Engineering Physics II	5
Major-specific technical course ⁴		3
EGR 201*	Analytic Mechanics – Statics	3
	Semester Hours	15

Spring Semester

Major-specific technical course ⁴		3
Major-specific technical course ⁴		3
Major-specific technical course ⁴		3
Major-specific technical course ⁴		3
General education or technical elective ⁵		3
	Semester Hours	15
	Electives	5
	Total Hours:	69

*Statics will depend on JCC course availability.

General Education Categories⁶

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 103 or ECON 104 or PSYC 101</i>	3
Social & Behavioral Sciences		3
Western/Comparative Cultures		
Non-Western Cultures		
US Minority Cultures		
Language Other Than English (LOTE)		

³ EGR 202 should be considered as a second-year summer course option.

⁴ Major-specific technical courses will be selected in consultation with a program advisor.

⁵ Optional if the four technical courses for the semester total at least 15 hours.

⁶ 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.