



The Grainger College of Engineering
Engineering Pathways

Plan of Study¹ – Rock Valley College

First Year – Option 1

Fall Semester		Hours
MTH 135	Calculus with Analytic Geometry I	5
CHM 120	General Chemistry I	4
CIS 276 (or CIS 240, CIS 245, MTH 164)*	Introduction to C/C++ Programming	4
EGR 101 + STU 100	Intro to Engineering	3
General education ²		3
Semester Hours		19
Spring Semester		
MTH 235	Calculus with Analytic Geometry II	4
CHM 130	General Chemistry II	4
PHY 215	Mechanics, Wave Motion, Thermodynamics	5
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		
MTH 135	Calculus with Analytic Geometry I	5
CHM 120	General Chemistry I	4
EGR 101 + STU 100	Intro to Engineering	3
General education ²		3
General education ²		3
Semester Hours		18
Spring Semester		
MTH 235	Calculus with Analytic Geometry II	4
CHM 130	General Chemistry II	4
PHY 215	Mechanics, Wave Motion, Thermodynamics	5
CIS 276 (or CIS 240, CIS 245, MTH 164)*	Introduction to C/C++ Programming	4
Semester Hours		17

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

MTH 236	Calculus with Analytic Geometry III	4
PHY 225	Electric, Magnetism, Light, Modern Physics	5
EGR 206	Statics	3
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	7
	Total Hours:	69

General Education Categories⁵

Composition I	<i>ENG 101 & ENG 103</i>	4-6
Advanced Composition	<i>typically completed after transfer</i>	
Humanities & the Arts		3
Humanities & the Arts		3
Social & Behavioral Sciences	<i>ECO 110 or ECO 111 or PSY 170</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.