



The Grainger College of Engineering

Engineering Pathways

Plan of Study¹ – Illinois Valley Community College

First Year – Option 1

Fall Semester			Hours
MTH 2001	Calculus and Analytical Geometry I		5
CHM 1006	General Chemistry I		5
CSI 1011	Computer Science I		4
General education or elective ²			3
Semester Hours			17
Spring Semester			
MTH 2002	Calculus and Analytical Geometry II		4
CHM 1007	General Chemistry II		5
PHY 2011	Engineering Physics I: Mechanics		5
General education or elective ²			3
Semester Hours			17

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

First Year – Option 2

Fall Semester			
MTH 2001	Calculus and Analytical Geometry I		5
CHM 1006	General Chemistry I		5
General education or elective ²			3
General education or elective ²			3
Semester Hours			16
Spring Semester			
MTH 2002	Calculus and Analytical Geometry II		4
CHM 1007	General Chemistry II		5
PHY 2011	Engineering Physics I: Mechanics		5
CSI 1011	Computer Science I		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.



The Grainger College of Engineering Engineering Pathways

Second Year

Fall Semester

MTH 2003	Calculus and Analytic Geometry III	4
PHY 2012	Engineering Physics II: Electricity & Magnetism	5
TAM 2001*	Theoretical Applied Mechanics	5
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 elective ⁴		3
Semester Hours		15
Electives		3
Total Hours:		69

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

General Education Categories⁵

Composition I	<i>ENG 1001 & ENG 1002</i>	4-6
Advanced Composition	<i>typically completed after transfer</i>	
Humanities & the Arts		3
Humanities & the Arts		3
Social & Behavioral Sciences	<i>ECN 2002 or ECN 2003 or PSY 1000</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.