

PROGRAM INFORMATION

Engineering Pathways offers students interested in beginning their college education at an Illinois community college a streamlined transfer experience and guaranteed admission to The Grainger College of Engineering upon successful completion of program requirements. The program utilizes a cohort-based model and supports students with an array of services including academic advising and mentoring; orientations and events; opportunities for major exploration and professional development; and early engagement with Grainger Engineering and the University of Illinois Urbana-Champaign.

Program Requirements

- Follow the [Engineering Pathways plan of study](#)
- Earn a B or better in each required course
- Maintain a 3.5 GPA overall and in technical coursework*
- Participate in mandatory advising and programming

Note: students are expected to complete all courses in which they enroll; dropping/withdrawing or failing to earn a B or better in a required course will jeopardize program standing.

*Technical coursework includes chemistry, computer science, math, physics, and engineering/major-specific coursework.

Program Eligibility

- Students must [apply](#) and be admitted to the program via Grainger Engineering
- Post-high school/GED completion of the two-year [plan of study](#) is required
- Students must reside in Illinois to apply and participate in the program
- Priority for admission goes to Illinois residents and students in-district at their selected community college
- Engineering Pathways is a two-year program. Students who attempt early transfer remove themselves from the program. Students dismissed/removed from Engineering Pathways may not reapply.

Not eligible: Applicants seeking a second bachelor's degree; current/former UIUC undergraduate degree-seeking students; students who have earned grades in college coursework prior to enrollment in the program which will not permit them to achieve the minimum GPAs required

Interested students who have attended an institution other than an IL community college post-high school completion should contact engineeringpathways@illinois.edu to determine eligibility.

PLANS OF STUDY

Engineering Pathways is a cohort-based experience. Students enrolled in the program work through the foundational courses together, in sequence. 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/major-specific coursework. Prior credit, including through AP and dual enrollment, may not be used to satisfy technical coursework requirements for the program.

All required coursework is pre-articulated for transfer to the University of Illinois Urbana-Champaign. It is possible to apply test-based and prior earned credit to general education coursework such as Composition, Humanities & the Arts, Social & Behavioral Sciences, Cultural Studies, and Language Other Than English. You will work with Engineering Pathways advisors in Grainger Engineering to select appropriate major-specific technical courses and Gen Eds or other electives to round out your plan of study.



First Year – Option 1

Fall Semester		Hours
MAT 131	Calculus I	5
CHM 151	Chemical Principles	5
CPS 206*	Computer Science I	4
General education ²		3
Semester Hours		17
Spring Semester		
MAT 201	Calculus II	5
CHM 152	Chemical Principles with Qualitative Analysis	5
PHY 205	University Physics I	5
General education ²		3
Semester Hours		18

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

First Year – Option 2

Fall Semester		
MAT 131	Calculus I	5
CHM 151	Chemical Principles	5
General education ²		3
General education ²		3
Semester Hours		16
Spring Semester		
MAT 201	Calculus II	5
CHM 152	Chemical Principles with Qualitative Analysis	5
PHY 205	University Physics I	5
CPS 206*	Computer Science I	4
Semester Hours		19

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 202	Calculus III	3
PHY 206	University Physics II	5
PHY 201	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
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	2
	Total Hours:	69

General Education Categories⁵

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>ECO 201 or ECO 202 or PSY 132</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.