

# University of Illinois Urbana-Champaign

## Engineering Pathways

### A guaranteed admission program to the Grainger College of Engineering

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 at the University of Illinois Urbana-Champaign upon successful completion of program requirements.

The program offers a major-specific guarantee to any of the 18 participating engineering majors for students who successfully complete all program requirements.

Engineering Pathways is a cohort-based program. Students must complete all requirements as shown on the Program of Study. Any variation from the Program of Study must be approved in advance by UIUC.\* See the Program of Study for Black Hawk College and more about Pathways at <https://grainger.illinois.edu/admissions/undergraduate/pathways>

\* BHC students take PHYS 201 in the first fall semester. For computer science take CS 121.

**Fall 2024 application process:** students must be accepted by Black Hawk College and complete the Pathways application available on the UIUC Engineering Pathways website.

- UIUC Pathways Application is available January 5 – April 5, 2024
- UIUC makes Pathways admission decisions on a rolling basis.

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*Black Hawk College prepared this guide as a service to our students and is not meant to be comprehensive. Confirm all requirements with The Grainger College of Engineering Pathways staff. Guide last updated 12/06/2023.*





# The Grainger College of Engineering Engineering Pathways

## Plan of Study<sup>1</sup> – Black Hawk College

### First Year – Option 1

| Fall Semester                  |                                  | Hours |
|--------------------------------|----------------------------------|-------|
| MATH 124                       | Calculus I w/ Analytic Geometry  | 4     |
| CHEM 101                       | General Chemistry I              | 4     |
| CS*                            | Intro to Computer Science        | 4     |
| General education <sup>2</sup> |                                  | 3     |
| Semester Hours                 |                                  | 15    |
| Spring Semester                |                                  |       |
| MATH 225                       | Calculus II w/ Analytic Geometry | 4     |
| CHEM 102                       | General Chemistry II             | 4     |
| PHY 201                        | Mechanics and Thermal Physics    | 5     |
| General education <sup>2</sup> |                                  | 3     |
| Semester Hours                 |                                  | 16    |

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

### First Year – Option 2

| Fall Semester                  |                                  |    |
|--------------------------------|----------------------------------|----|
| MATH 124                       | Calculus I w/ Analytic Geometry  | 4  |
| CHEM 101                       | General Chemistry I              | 4  |
| General education <sup>2</sup> |                                  | 3  |
| General education <sup>2</sup> |                                  | 3  |
| Semester Hours                 |                                  | 14 |
| Spring Semester                |                                  |    |
| MATH 225                       | Calculus II w/ Analytic Geometry | 4  |
| CHEM 102                       | General Chemistry II             | 4  |
| PHY 201                        | Mechanics and Thermal Physics    | 5  |
| CS*                            | Intro to Computer Science        | 4  |
| Semester Hours                 |                                  | 17 |

<sup>1</sup> 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.

<sup>2</sup> 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**

|  |                                   |           |
|--|-----------------------------------|-----------|
| MATH 226                                     | Calculus III w/ Analytic Geometry | 5         |
| PHYS 202                                     | Electricity and Magnetism         | 5         |
| GE 201                                       | Analytical Mechanics Statics      | 3         |
| Major-specific technical course <sup>3</sup> |                                   | 3         |
| <b>Semester Hours</b>                        |                                   | <b>16</b> |

**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 <sup>4</sup> |  | 3         |
| <b>Semester Hours</b>                                |  | <b>15</b> |
| <b>Electives</b>                                     |  | <b>7</b>  |
| <b>Total Hours:</b>                                  |  | <b>69</b> |

**General Education Categories<sup>5</sup>**

|                                    |   |     |
|------------------------------------|---|-----|
| Composition I                      | <i>ENG 101 &amp; 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 221 or ECON 222 or PSYC 101</i>   | 3   |
| Social & Behavioral Sciences       |   | 3   |
| Western/Comparative Cultures       |   |     |
| Non-Western Cultures               |   |     |
| US Minority Cultures               |   |     |
| Language Other Than English (LOTE) |   |     |

<sup>3</sup> Major-specific technical courses will be selected in consultation with a program advisor.

<sup>4</sup> Optional if the four major-specific technical courses for the semester total at least 15 hours.

<sup>5</sup> 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.