### First Year – Option 1

**Fall Semester**
- **MATH 222**  
  Calculus and Analytic Geometry I  
  *Hours: 5*
- **CHEM 130**  
  General Chemistry I  
  *Hours: 4*
- **CMPSC 125 (or ENGR 230)**  
  CS I: Programming in C++  
  *Hours: 3*
- **ENGR 110**  
  Introduction to Engineering  
  *Hours: 1*
- General education²  
  *Hours: 3*

**Spring Semester**
- **MATH 223**  
  Calculus and Analytic Geometry II  
  *Hours: 4*
- **CHEM 132**  
  General Chemistry  
  *Hours: 4*
- **PHYS 211**  
  Engineering Physics: Mechanics  
  *Hours: 4*
- General education²  
  *Hours: 3*

*Semester Hours: 16*

### First Year – Option 2

**Fall Semester**
- **MATH 222**  
  Calculus and Analytic Geometry I  
  *Hours: 5*
- **CHEM 130**  
  General Chemistry I  
  *Hours: 4*
- **ENGR 110**  
  Introduction to Engineering  
  *Hours: 1*
- General education²  
  *Hours: 3*
- General education²  
  *Hours: 3*

*Semester Hours: 16*

**Spring Semester**
- **MATH 223**  
  Calculus and Analytic Geometry II  
  *Hours: 4*
- **CHEM 132**  
  General Chemistry  
  *Hours: 4*
- **PHYS 211**  
  Engineering Physics: Mechanics  
  *Hours: 4*
- **CMPSC 115 (or ENGR 230)**  
  CS I: Programming in C++  
  *Hours: 3*

*Semester Hours: 15*

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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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>MATH 224</td>
<td>Calculus and Analytic Geometry III</td>
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<tr>
<td>PHYS 212</td>
<td>Engineering Physics: Electricity and Magnetism</td>
<td>4</td>
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<td>ENGR 251</td>
<td>Statics</td>
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<td>Major-specific technical course$^3$</td>
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<td>General education or technical elective$^4$</td>
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**Semester Hours:** 17

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**Semester Hours:** 15

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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>Electives</td>
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</table>

**Total Hours:** 69

| General Education Categories$^5$ | | |
|----------------------------------|-------------||
| Composition I | ENGL 110 & ENGL 111 | 4-6 |
| Advanced Composition | typically completed after transfer | |
| Humanities & the Arts | | 3 |
| Humanities & the Arts | | 3 |
| Social & Behavioral Sciences | ECON 110 or ECON 111 or PSY 110 | 3 |
| Social & Behavioral Sciences | | 3 |
| Western/Comparative Cultures | | |
| Non-Western Cultures | | |
| US Minority Cultures | | |
| Language Other Than English (LOTE) | | |

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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.