



The Grainger College of Engineering  
**Engineering Pathways**

Plan of Study<sup>1</sup> – Oakton Community College

**First Year – Option 1**

<b>Fall Semester</b>		<b>Hours</b>
MAT 250	Calculus I	5
CHM 121	General College Chemistry I	4
CSC 155 (or CSC 156 or CSC 157)	C++ Computer Science I	3
General education or elective		3
<b>Semester Hours</b>		<b>15</b>
<b>Spring Semester</b>		
MAT 251	Calculus II	4
CHM 122	General College Chemistry II	4
PHY 221	Engineering Physics I	5
General education or elective		3
<b>Semester Hours</b>		<b>16</b>

**First Year – Option 2**

<b>Fall Semester</b>		
MAT 250	Calculus I	5
CHM 121	General College Chemistry I	4
General education or elective		3
General education or elective		3
<b>Semester Hours</b>		<b>15</b>
<b>Spring Semester</b>		
MAT 251	Calculus II	4
CHM 122	General College Chemistry II	4
PHY 221	General Physics I	5
CSC 155 (or CSC 156 or CSC 157) <sup>2</sup>	C++ Computer Science I	3
<b>Semester Hours</b>		<b>16</b>

<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> CSC 170/171 or CSC 170/173 is also an option for students interested in majors other than CS and ECE.

## Second Year

### Fall Semester

MAT 252	Calculus III	4
PHY 222	General Physics II	5
ENG 211	Analytic Mechanics (Statics)	3
Major-specific technical course <sup>3</sup>		3
	<b>Semester Hours</b>	<b>15</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 elective <sup>4</sup>		3
	<b>Semester Hours</b>	<b>15</b>
	<b>Electives</b>	<b>8</b>
	<b>Total Hours:</b>	<b>69</b>

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

Composition I	<i>EGL 101 &amp; EGL 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 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.