

# ENGINEERING PATHWAYS

## Plan of Study<sup>1</sup> – College of Lake County

### First Year – Option 1

<b>Fall Semester</b>		<b>Hours</b>
MTH 145	Calculus and Analytic Geometry I	5
CHM 121	General Chemistry I	5
EGR 120	Introduction to Engineering	1
MCS 141 (or MCS 140)	Computer Science I	4
General education or elective <sup>2</sup>		3
<b>Semester Hours</b>		<b>18</b>
<b>Spring Semester</b>		
MTH 146	Calculus and Analytic Geometry II	4
CHM 123	General Chemistry II	5
PHY 123	Physics for Science and Engineering I	5
General education or elective		3
<b>Semester Hours</b>		<b>17</b>

### First Year – Option 2

<b>Fall Semester</b>		
MTH 145	Calculus and Analytic Geometry I	5
CHM 121	General Chemistry I	5
EGR 120	Introduction to Engineering	1
General education or elective		3
General education or elective		3
<b>Semester Hours</b>		<b>17</b>
<b>Spring Semester</b>		
MTH 146	Calculus and Analytic Geometry II	4
CHM 123	General Chemistry II	5
PHY 123	Physics for Science and Engineering I	5
MCS 141 (or MCS 140)	Computer Science I	4
<b>Semester Hours</b>		<b>18</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> Course may be successfully completed for a letter grade prior to the first year, fall semester.

## Second Year

### Fall Semester

MTH 246	Calculus and Analytic Geometry III	5
PHY 124	Physics for Science and Engineering II	5
EGR 125	Engineering 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 elective <sup>4</sup>		3
<b>Semester Hours</b>		<b>15</b>
<b>Electives</b>		<b>3</b>
<b>Total Hours:</b>		<b>69</b>

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

Composition I	<i>ENG 120 or 121 &amp; ENG 122 or 126</i>	4-6
Advanced Composition	<i>typically completed after transfer</i>	
Humanities & the Arts		3
Humanities & the Arts		3
Social & Behavioral Sciences	<i>ECO 221 or ECO 222</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.