

# ENGINEERING PATHWAYS

## Plan of Study<sup>1</sup> – College of DuPage

### First Year – Option 1

Fall Semester		Hours
MATH 2231	Calculus and Analytic Geometry I	5
CHEMI 1551	Principles of Chemistry I	5
ENGIN 1100	Engineering Orientation	1
CIS 1400	Programming Logic and Technique	4
General education or elective <sup>2</sup>		3
<b>Semester Hours</b>		<b>18</b>
Spring Semester		
MATH 2232	Calculus and Analytic Geometry II	5
CHEMI 1552	Principles of Chemistry II	5
PHYSI 2111	Physics for Science and Engineering I	5
General education or elective		3
<b>Semester Hours</b>		<b>18</b>

### First Year – Option 2

Fall Semester		
MATH 2231	Calculus and Analytic Geometry I	5
CHEMI 1551	Principles of Chemistry I	5
ENGIN 1100	Engineering Orientation	1
General education or elective		3
General education or elective		3
<b>Semester Hours</b>		<b>17</b>
Spring Semester		
MATH 2232	Calculus and Analytic Geometry I	5
CHEMI 1552	Principles of Chemistry II	5
PHYSI 2111	Physics for Science and Engineering I	5
CIS 1400	Programming Logic and Technique	4
<b>Semester Hours</b>		<b>19</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

MATH 2233 and 2235	Calculus and Analytic Geometry III + Vectors	5
PHYSI 2112	Physics for Science and Engineering II	5
ENGIN 2201	Statics	3
Major-specific technical course <sup>3</sup>		3
Semester Hours		16

### 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
Semester Hours		15
Electives		2
Total Hours:		69

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

Composition I	<i>ENGLI 1101 &amp; ENGLI 1102</i>	4-6
Advanced Composition	<i>typically completed after transfer</i>	
Humanities & the Arts		3
Humanities & the Arts		3
Social & Behavioral Sciences	<i>ECONO 2201 or ECONO 2202</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.