

# Plan of Study<sup>1</sup> – Illinois Central College

### First Year - Option 1

Fall Semester		Hour
MATH 222	Calculus and Analytic Geometry I	5
CHEM 130	General Chemistry I	4
CMPSC 125 (or ENGR 230)	CS I: Programming in C++	3
ENGR 110	Introduction to Engineering	1
General education <sup>2</sup>		3
	Semester Hours	16
Spring Semester		
MATH 223	Calculus and Analytic Geometry II	4
CHEM 132	General Chemistry	4
PHYS 211	Engineering Physics: Mechanics	4
General education <sup>2</sup>		3
	Semester Hours	15
First Year - Option 2	Semester nours	13
-	Semester nours	
Fall Semester		
Fall Semester MATH 222	Calculus and Analytic Geometry I	5
Fall Semester MATH 222 CHEM 130	Calculus and Analytic Geometry I General Chemistry I	5 4
Fall Semester  MATH 222  CHEM 130  ENGR 110	Calculus and Analytic Geometry I	5 4 1
Fall Semester  MATH 222  CHEM 130  ENGR 110  General education <sup>2</sup>	Calculus and Analytic Geometry I General Chemistry I	5 4 1 3
Fall Semester  MATH 222  CHEM 130  ENGR 110	Calculus and Analytic Geometry I General Chemistry I Introduction to Engineering	5 4 1 3 3
Fall Semester  MATH 222  CHEM 130  ENGR 110  General education <sup>2</sup>	Calculus and Analytic Geometry I General Chemistry I	5 4 1 3
Fall Semester  MATH 222  CHEM 130  ENGR 110  General education <sup>2</sup> General education <sup>2</sup>	Calculus and Analytic Geometry I General Chemistry I Introduction to Engineering	5 4 1 3 3
Fall Semester  MATH 222  CHEM 130  ENGR 110  General education <sup>2</sup> General education <sup>2</sup> Spring Semester	Calculus and Analytic Geometry I General Chemistry I Introduction to Engineering  Semester Hours	5 4 1 3 3 16
Fall Semester  MATH 222  CHEM 130  ENGR 110  General education <sup>2</sup> General education <sup>2</sup> Spring Semester  MATH 223	Calculus and Analytic Geometry I General Chemistry I Introduction to Engineering  Semester Hours  Calculus and Analytic Geometry II	5 4 1 3 3 16
Fall Semester  MATH 222  CHEM 130  ENGR 110  General education <sup>2</sup> General education <sup>2</sup> Spring Semester  MATH 223  CHEM 132	Calculus and Analytic Geometry I General Chemistry I Introduction to Engineering  Semester Hours  Calculus and Analytic Geometry II General Chemistry	5 4 1 3 3 16

<sup>&</sup>lt;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>&</sup>lt;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 224	Calculus and Analytic Geometry III	4
PHYS 212	Engineering Physics: Electricity and Magnetism	4
ENGR 251	Statics	3
Major-specific technical course <sup>3</sup>		3
General education or technical elective <sup>4</sup>		3
	Semester Hours	17
Spring Semester		
Major-specific technical course		3
General education or technical elective <sup>4</sup>		3
	Semester Hours	15
	Electives	7
	Total Hours:	69

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

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)		

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

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

<sup>&</sup>lt;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.