

## Wheaton College - Illinois Tech Joint Dual-degree Program

THIS PROGRAM PLAN IS FOR GUIDANCE ONLY. GRADUATION REQUIREMENTS ARE FOUND IN CATALOGS.

Engineering Major  
General Education

### Chemical Engineering

#### Fall Semester

Sem	Code	Name	Hrs.
1	MATH 235	Calculus I	4
	PHYS 231	Introductory Physics I	4
	ENGR 101	Introduction to Engineering	1
	CHEM 231	General Chemistry I	4
	CORE 101	First Year Seminar	4
<i>Total</i>			17

3	PHYS 334	Computer Modeling of Physical Systems	2
	CHEM 341	Organic Chemistry I	4
	SELECT	Old Testament Literature	4
	LANG	Foreign Language	4
	SELECT	Thematic Core (1 of 3)	4
<i>Total</i>			18

5	MATH 333	Differential Equations	4
	CHEM 371	Physical Chemistry I	4
	IIT CHE 202	Material Energy Balance (online option)	3
	SELECT	Christian Thought	4
	SELECT	Visual & Performing Arts (2 of 2)	2
<i>Total</i>			17

years 1 - 3 credit hours = 103

#### Spring Semester

Sem	Code	Name	Hrs.
2	MATH 236	Calculus II	4
	PHYS 232	Introductory Physics II	4
	CHEM 232	General Chemistry II	4
	ENGW	Writing (0-4)	4
	COMM	Oral Communication (0-2)	2
<i>Total</i>			18

4	MATH 237	Calculus III	4
	CHEM 342	Organic Chemistry II	4
	BITH	New Testament Literature	4
	SELECT	Visual & Performing Arts (1 of 2)	2
	CORE 3xx	Advanced Seminar (with Thematic Core tag)	4
<i>Total</i>			18

6	CHEM 372	Physical Chemistry II	2
	IIT CHE 301	Fluid Mechanics	3
	ENGR 394	Engineering Ethics Capstone	2
	SELECT	Thematic Core (2 of 3)	4
	SELECT	Thematic Core (3 of 3)	4
<i>Total</i>			15

All courses below this line are based on completion at IIT

7	ECE 218	Digital Systems	4
	CHE 302	Heat & Mass Transfer Operations	3
	CHE 311	Foundations of Biological Science for Engineering	3
	CHE 351	Thermodynamics 1	3
	IPRO	IPRO Elective 1	3
<i>Total</i>			16

8	CHE 239	Mathematical and Computational Methods	3
	CHE 317	Chemical & Biological Engineering Laboratory 1	2
	CHE 433	Process Modeling & System Theory	3
	CHE 451	Thermodynamics 2	3
	SELECT	Technical Elective 1	3
<i>Total</i>			14

9	CHE 418	Chemical & Biological Engineering Laboratory 2	2
	CHE 423	Chemical Reaction Engineering	3
	CHE 435	Process Control	3
	CHE 494	Process Design 1	3
	IPRO	IPRO Elective 2	3
<i>Total</i>			14

10	CHE 406	Transport Phenomena	3
	CHE 496	Process Design 2	3
	SELECT	Technical Elective 2	3
	SELECT	Technical Elective 3	3
	EXAM	Fundamentals of Engineering (Passing is not required)	3
<i>Total</i>			12

years 4 - 5 credit hours = 56

TOTAL credit hours = 159

last updated 8/21/2023

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Updated August 2023

