

# 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

## Architectural 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	
	CORE 101	First Year Seminar	4	
	LANG.	Foreign Language	4	
<i>Total</i>			17	
3	MATH 333	Differential Equations	4	
	PHYS 334	Computer Modeling of Physical Systems	2	
	ENGR 201	Engr. Mechanics I - Statics	4	
	BITH 211	Old Testament Literature	4	
	SELECT	Vis. & Performing Arts (1 of 2)	2	
	<i>Total</i>			16
5	ENGR 204	Innovative Design in Engr.	4	
	ENGR 223	Strength of Materials	4	
	CHEM 231	General Chemistry	4	
	CORE 3xx	Advanced Seminar (with 1 Thematic Core tag)	4	
	<i>Total</i>			16

years 1 - 3 credit hours = 99

		Spring Semester		
Sem	Code	Name	Hrs.	
2	MATH 236	Calculus II	4	
	PHYS 232	Introductory Physics II	4	
	ENGR 131	Engineering Graphics & CAD	4	
	ENGW	Writing (0-4)	4	
<i>Total</i>			16	
4	MATH 237	Calculus III	4	
	ENGR 202	Engr. Mechanics II - Dynamics	4	
	SELECT	Thematic Core (1 of 3)	4	
	BITH	New Testament Literature	4	
	COMM	Oral Communication (0-2)	2	
	<i>Total</i>			18
6	ENGR 394	Engineering Ethics Capstone	2	
	BITH	Christian Thought	4	
	SELECT	Vis. & Performing Arts (2 of 2)	2	
	SELECT	Thematic Core (2 of 3)	4	
	SELECT	Thematic Core (3 of 3)	4	
	<i>Total</i>			16

All courses below this line are based on completion at IIT

7	CAE 105	Geodetic Science (Surveying)	3	
	CAE 208	Thermal Fluids Engineering 1	3	
	CAE 304	Structural Analysis 1	3	
	CAE 315	Materials of Construction	3	
	CAE 383	Electrical & Electronic Circuits	3	
<i>Total</i>			15	

8	CAE 302	Fluid Mechanics	3	
	CAE 307	Structural Design 2	3	
	CAE 303	Structural Design 1	3	
	CAE 312	Engineering Systems Analysis	3	
	IPRO	IPRO Elective 1	3	
	CAE	Technical Elective 1	3	
<i>Total</i>			18	

9	AAH 119	History of World Architecture	3	
	CAE 331	Building Science	3	
	CAE 461	Plumbing & Fire Protection Design	3	
	CAE 470	Construction Materials & Cost Estimating	3	
	CAE 471	Construction Planning & Scheduling	3	
	IPRO	IPRO Elective 2	3	
	<i>Total</i>			18

10	CAE 323	Introduction to Geotechnical Engineering	3	
	CAE 464	HVAC Systems Design	3	
	CAE 468	Architectural Design	3	
	CAE	Technical Elective 2	3	
	CAE	Technical Elective 3	3	
	CAE	Capstone Design	3	
	CAE 496	Fundamentals of Engineering Preparation	0	
	<i>Total</i>			18

years 4 - 5 credit hours = 69

TOTAL credit hours = 168

last updated 8/21/2023

# Wheaton College - Illinois Tech Architectural Engineering

Updated August 2023

