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

## THIS PROGRAM PLAN IS FOR GUIDANCE ONLY. SEE CATALOG FOR OFFICIAL REQUIREMENTS.

# **Engineering Major**

**General Education** 

		Fall Semester		
Sem	Code	Name		Hrs.
1	MATH 235	Calculus I		4
	<b>PHYS 231</b>	Introductory Physics I		4
	ENGR 101	Introduction to Engineering		1
	CORE 101	First Year Seminar		4
	LANG	World Languages		4
			Total	17
3	MATH 237	Calculus III		4
	ENGR 334	Computer Modeling of Physical Systems		2
	<b>ENGR 211</b>	Engr. Mechanics I - Statics		3
	BITH 211	Old Testament Literature		4
	SELECT	Vis. & Performing Arts (1 of 2)		2
			Total	15
5	ENGR 313	Mechanics of Materials		3
	CHEM 231	General Chemistry		4
	SELECT	Thematic Core (1 of 3)		4

3xx Core tag)	1
Total 1	5
years 1 - 3 credit hours = 9	4

		Spring Semester		
Sem	Code	Name		Hrs.
2	MATH 236	Calculus II		4
	<b>PHYS 232</b>	Introductory Physics II		4
	ENGR 132	Engineering Graphics & CAD		3
	ENGW	Writing (0-4)		4
ŀ			Total	15
F				
4	MATH 333	Differential Equations		4
	ENGR 212	Engr. Mechanics II - Dynamics		3
	<b>ENGR 214</b>	Innovative Design in Engr.		3
	BITH	New Testament Literature		4
	COMM	Oral Communication (0-2)		2
			Total	16
-				
6	ENGR 494	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
ŀ			Total	16
			rotal	10

#### **Architectural Engineering**

All courses below this line are based on completion at IIT

3

3

3

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15

CAE 105 Geodetic Science (Surveying) CAE 208 Thermal Fluids Engineering 1 CAE 304 Structural Analysis 1 CAE 315 Materials of Construction CAE 383 Electrical & Electronic Circuits Total

9

7

CORE

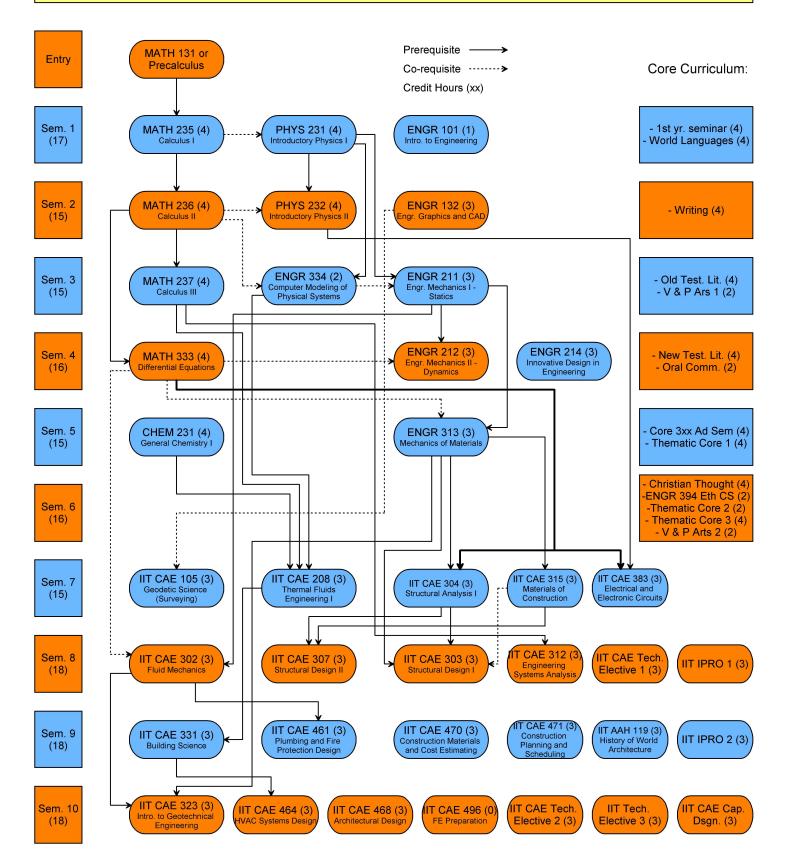
AAH 119	History of World Architecture	3
CAE 331	Building Science	3
CAE 461	Plumbing & Fire Protection Design	3
CAE 470	Construction Materials & Cost Estimating	3
CAE 471	Construction Planning & Scheduling	3
IPRO	IPRO Elective 2	3
	Total	18
	years 4 - 5 credit hours =	69
	TOTAL credit hours =	163

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

F		Перагалон	18
	CAE 496	Fundamentals of Engineering Preparation	0
	CAE	Capstone Design	3
	CAE	Technical Elective 3	3
	CAE	Technical Elective 2	3
	CAE 468	Architectural Design	3
	CAE 464	HVAC Systems Design	3
10	CAE 323	Introduction to Geotechnical Engineering	3

last updated 3/7/2024

# Wheaton College - Illinois Tech Architectural Engineering



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