

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

Engineering Major

General Education

Architectural Engineering

Fall Semester

Spring 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
	CORE 131	Holistic Human Flourishing	1
	LANG	World Languages	4
Total			18

Sem	Code	Name	Hrs.
2	MATH 236	Calculus II	4
	PHYS 232	Introductory Physics II	4
	ENGR 132	Engineering Graphics & CAD	3
	ENGW	Writing (0-4)	4
	Total		

3	MATH 237	Calculus III	4
	ENGR 334	Computer Modeling of Physical Systems	2
	ENGR 211	Engr. Mechanics I - Statics	3
	BITH 211	Old Testament Literature	4
	SELECT	Vis. & Performing Arts (1 of 2)	2
Total			15

4	MATH 333	Differential Equations	4
	ENGR 212	Engr. Mechanics II - Dynamics	3
	ENGR 214	Innovative Design in Engr.	3
	BITH	New Testament Literature	4
	COMM	Oral Communication (0-2)	2
Total			16

5	ENGR 313	Mechanics of Materials	3
	CHEM 231	General Chemistry	4
	SELECT	Thematic Core (1 of 3)	4
	CORE 3xx	Advanced Seminar (with 1 Thematic Core tag)	4
Total			15

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
Total			16

years 1 - 3 credit hours = 95

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
Total			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
Total			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
Total			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
Total			18

years 4 - 5 credit hours = 69

TOTAL credit hours = 164

last updated 8/7/2024

Wheaton College - Illinois Tech Architectural Engineering

Updated August 2024

