

Engineering Major

General Education

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	World Languages	4
Total			17

3	MATH 237	Calculus III	4
	ENGR 334	Computer Modeling of Physical Systems	2
	ENGR 211	Engr. Mechanics I - Statics	3
	SELECT	Thematic Core (1 of 3)	4
	COMM	Oral Communication (0-2)	2
Total			15

5	ENGR 313	Mechanics of Materials	3
	CHEM 231	General Chemistry I	4
	CORE 3xx	Advanced Seminar (with 1 Thematic Core tag)	4
	SELECT	Thematic Core (2 of 3)	4
	SELECT	Visual & Performing Arts (2 of 2)	2
Total			17

years 1 - 3 credit hours = 97

Aerospace Engineering

Spring Semester

Sem	Code	Name	Hrs.
2	MATH 236	Calculus II	4
	PHYS 232	Introductory Physics II	4
	ENGR 132	Engineering Graphics & CAD (3 - optional)	
	ENGW	Writing (0-4)	4
	BITH	Old Testament Literature	4
Total			16

4	MATH 333	Differential Equations	4
	ENGR 212	Engr. Mechanics II - Dynamics	3
	ENGR 214	Innovative Design in Engr.	3
	SELECT	Visual & Performing Arts (1 of 2)	2
	BITH	New Testament Literature	4
Total			16

6	MMAE 313	IIT Fluid Mechanics	3
	MMAE 320	IIT Thermodynamics	3
	ENGR 494	Engineering Ethics Capstone	2
	BITH	Christian Thought	4
	SELECT	Thematic Core (3 of 3)	4
Total			16

All courses below this line are based on completion at IIT

7	MMAE 311	Compressible Flow	3
	MMAE 312	Aerodynamics of Aerospace Vehicles	3
	MMAE 315	Aerospace Laboratory 1	4
	MMAE 350	Computational Mechanics	3
Total			13

9	MMAE 410	Aircraft Flight Mechanics	3
	MMAE 411	Spacecraft Dynamics	3
	MMAE 414	Aircraft Design I	3
	I PRO	I PRO Elective 1	3
Total			12

years 4 - 5 credit hours = 53

TOTAL credit hours = 150

8	MS 201	Materials Science	3
	MMAE 304	Mechanics of Aerostructures	3
	MMAE 352	Aerospace Propulsion	3
	MMAE 443	Systems Analysis & Control	3
Total			12

10	MMAE 372	Aerospace Materials Lab	3
	MMAE 412	Spacecraft Design I	3
	MMAE 415	Aerospace Laboratory 2	4
	MMAE	Technical Elective 1	3
	I PRO	I PRO Elective 2	3
	EXAM	Fundamentals of Engineering (Passing is not required)	
Total			16

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# Wheaton College - Illinois Tech Aerospace Engineering

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