

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

Mechanical 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
	SELECT	Thematic Core (1 of 3)	4
	COMM	Oral Communication (0-2)	2
<i>Total</i>			16

5	ENGR 204	Innovative Design in Engr.	4
	ENGR 223	Strength of Materials	4
	CHEM 231	General Chemistry I	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 - optional)	
	ENGW	Writing (0-4)	4
	BITH	Old Testament Literature	4
<i>Total</i>			16

4	MATH 237	Calculus III	4
	ENGR 202	Engr. Mechanics II - Dynamics	4
	SELECT	Thematic Core (2 of 3)	4
	SELECT	Visual & Performing Arts (1 of 2)	2
	BITH	New Testament Literature	4
<i>Total</i>			18

6	ENGR 225	Materials Science	4
	ENGR 394	Engineering Ethics Capstone	2
	SELECT	Thematic Core (3 of 3)	4
	BITH	Christian Thought	4
	SELECT	Visual & Performing Arts (2 of 2)	2
<i>Total</i>			16

All courses below this line are based on completion at IIT

7	MMAE 302	Advanced Mechanics of Solids	3
	MMAE 313	Fluid Mechanics	3
	MMAE 320	Thermodynamics	3
	MMAE 350	Computational Mechanics	3
<i>Total</i>			12

8	MMAE 319	Mechanical Lab 1	4
	MMAE 321	Applied Thermodynamics	3
	MMAE 323	Heat & Mass Transfer	3
	MMAE 332	Design of Machine Elements	3
<i>Total</i>			13

9	MMAE 419	Mechanical Laboratory 2	4
	MMAE 443	Systems Analysis & Control	3
	MMAE 485	Manufacturing Processes	3
	SELECT	Technical Elective 1	3
	IPRO	IPRO Elective 1	3
<i>Total</i>			16

10	MMAE 432	Design, Mechanical Systems	3
	or	or	
	MMAE 433	Design, Thermal Science	3
	IPRO	IPRO Elective 2	3
	SELECT	Technical Elective 2	3
	SELECT	Technical Elective 3	3
Exam	Fundamentals of Engineering (Passing is not required)		
<i>Total</i>			12

years 4 - 5 credit hours = 53

TOTAL credit hours = 152

last updated 8/21/2023

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Updated August 2023

