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

Fall Semester

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Sem	Code	Name		Hrs.
1	MATH 235	Calculus I		4
	PHYS 231	Introductory Physics I		4
	ENGR 101	Introduction to Engineering		1
	CHEM 231	General Chemistry I		4
	CORE 101	First Year Seminar		4
			Total	17

3	PHYS 334	Computer Modeling of Physi Systems	cal	2
	CHEM 341	Organic Chemistry I*		4
	SELECT	Old Testament Literature		4
	LANG	Foreign Language		4
	SELECT	Thematic Core (1 of 3)		4
			Total	18

5	MATH 333 SELECT	Differential Equations Christian Thought		4
	SELECT	Thematic Core (2 of 3)		4
	SELECT	Thematic Core (3 of 3)		4
			Total	16

years 1 - 3 credit hours = 104

Biomedical Engineering Medical Imaging

Spring Semester

Sem	Code	Name		Hrs.
2	MATH 236	Calculus II		4
	PHYS 232	Introductory Physics II		4
	CHEM 232	General Chemistry II		4
	ENGW	Writing (0-4)		4
	COMM	Oral Communication (0-2)		2
			Total	18

4	MATH 237	Calculus III	4
	CHEM 342 BITH	Organic Chemistry II* New Testament Literature	4 4
	SELECT	Visual & Performing Arts (1 of 2)	2
	CORE 3xx	Advanced Seminar (with Thematic Core tag)	4
		Total	18

		Total	
	SELECT	Visual & Performing Arts (2 of 2)	2
	ENGR 394	Engineering Ethics Capstone	2
	IIT ECE 211	Circuit Analysis 1	3
	IIT CS 201	Accelerated Introduction to Computer Science	4
	IIT BME 315	Instrumentation & Measurement Laboratory	2
	IIT BIOL 117	Human Biology Laboratory	1
6	IIT BIOL 115	Human Biology	3

All courses below this line are based on completion at IIT

7	BME 100 BME 309	Introduction to the Professio Biomedical Imaging & Sensi		2 3
	ECE 308	Signals and Systems		3
	BME 422	Mathematical Methods for Biomedical Engineers		3
	BME 433	Biomedical Applications of Statistics		3
	ECE 213	Circuit Analysis 2		4
			Total	18

	Total	13
IPRO	IPRO Elective 2	3
BME 453 ECE 437	Quantitative Physiology Digital Signal Processing 1	3
BME 419	Introduction to Design Concepts in Biomedical Engineering	2
BME 405	Physiology Laboratory	2

_	DME 040	Diamento delle	
8	BME 310	Biomaterials	3
	BME 325	Bioelectronics Laboratory	1
	BME 443	Biomedical Instrumentation & Electronics	3
	BME	Technical Elective 1	3
	IPRO	IPRO Elective 1	3
		Total	13

		Total	12
	EXAM	Fundamentals of Engineering (Passing is not required)	
	ECE 481	Image Processing	3
	BME 445	Quantitative Neural Function	3
	BME 438	Neuroimaging	3
10	BME 420	Design Concepts in Biomedical Engineering	3

last updated 8/21/2023

9

(WC CHEM 341 or IIT MATH 333) and (WC CHEM 342 or IIT PHYS 224 / WC PHYS 331) If not both WC CHEM 341 and CHEM 342, then Wheaton requires ENGR 204

56

160

years 4 - 5 credit hours =

TOTAL credit hours = *Options for Organic Chemistry Series:

Wheaton College - Illinois Tech Biomedical Engineering - Medical Imaging

Updated August 2023

