		Engineering Major			Bio	medical Engineering	
		General Education				leural Engineering	
		Fall Semester				Spring Semester	
m	Code	Name	Hrs.	Sem	Code	Name	Н
1	MATH 235	Calculus I	4	2	MATH 236	Calculus II	4
	PHYS 231	Introductory Physics I	4		PHYS 232	Introductory Physics II	
	ENGR 101	Introduction to Engineering	1		CHEM 232	General Chemistry II	
	CHEM 231 CORE 101	General Chemistry I First Year Seminar	4 4		ENGW COMM	Writing (0-4) Oral Communication (0-2)	
	OOKE 101						
		Tot	al 17			Total	
	PHYS 334	Computer Modeling of Physical	2	4	MATH 237	Calculus III	
-	CHEM 341	Systems Organic Chemistry I*	4		CHEM 342	Organic Chemistry II*	
	SELECT	Old Testament Literature	4		BITH	New Testament Literature	
	LANG	Foreign Language	4		SELECT	Visual & Performing Arts (1 of 2)	
	SELECT	Thematic Core (1 of 3)	4		CORE 3xx	Advanced Seminar (with Thematic	
	OLLEOT		-			Core tag)	-
		Tot	<i>al</i> 18			Total	1
5	MATH 333	Differential Equations	4	6	IIT BIOL 115	Human Biology	
	SELECT	Christian Thought	4	Ŭ	IIT BIOL 117	Human Biology Laboratory	
	SELECT	Thematic Core (2 of 3)	4		IIT BME 315	Instrumentation & Measurement	
	SELECT	Thematic Core (3 of 3)	4		IIT ECE 211	Laboratory Circuit Analysis 1	
	SELECT	Visual & Performing Arts (2 of 2)	-		IIT ECE 218	Digital Systems	
	JELEOT		2		ENGR 394	Engineering Ethics Capstone	:
		Tot	<i>al</i> 18			Total	1
		years 1 - 3 credit hours					
		All courses be	low this line	e are based or	completion at I	IT	
7	BME 100	Introduction to the Profession	2	8	BME 310	Biomaterials	
	BME 309	Biomedical Imaging & Sensing	3		BME 325	Bioelectronics Laboratory	
	ECE 308	Signals and Systems	3		BME 443	Biomedical Instrumentation &	
		Mathematical Methods for				Electronics	
	BME 422	Biomedical Engineers	3		BME	Technical Elective 1	
	BME 433	Biomedical Applications of	3		IPRO	IPRO Elective 1	
		Statistics	4				
	ECE 213	Circuit Analysis 2				Total	1
						Design Concepts in Biomedical	
		Physiology Laboratory	2	10	BME 420	Engineering	
	BME 405		1		BME 438	Neuroimaging	:
	BME 405	Introduction to Design Concepts Biomedical Engineering	^{IN} 2				
	BME 419 BME 453	Biomedical Engineering Quantitative Physiology	2 3		BME 445 BME	Quantitative Neural Function Technical Elective 3	
	BME 419	Biomedical Engineering	2		BME 445 BME EXAM	Technical Elective 3 Fundamentals of Engineering	
	BME 419 BME 453 BME	Biomedical Engineering Quantitative Physiology Technical Elective 2	2 3 3 3		BME	Technical Elective 3	1

(WC CHEM 341 or IIT MATH 333) and (WC CHEM 342 or IIT Technical Elective - see IIT catalog) If not both WC CHEM 341 and CHEM 342, then Wheaton requires ENGR 204

