

## **Biomedical Engineering**

College of Engineering

Code-BME
130 Credits for Graduation

\* Courses used to calculate BME Major GPA

## **Required Biomedical Engineering Courses (40 credits)**

https://engineer	ring.purdue.edu/BME/Acade	mics/BMEUn	dergraduateProgram/A	cademicDocuments/PlanofStud	<u>ly</u>		
BME C	Courses (29 credits)*						
(3)	· · · · · · · · · · · · · · · · · · ·			l (3) BME 30400 Biomedical Transport Fundamentals			
(1)	BME 20500 Biomolec			(3) BME 30500 Bioinstrumentation, Circuit and Meas			
(-)	Princip	or contain	5)5 245	,			
(1)	•			(2) BME 30600 Biomedical Transport Lab			
(3)				(2) BME 39000 Profe	_		
(1)	BME 20600 Biomecha			(1) BME 48800 Preliminary Project Design			
(3)	BME 25600 Physiol M			(2) BME 48900 Senior Design Project Lab			
(3)	BME 30100 Bioelectri	_		(1) BME 49000 Professional Elements of Design			
				()			
Core E	Engineering Courses (	12 credits)	*				
(3)	ME 27000 Basic Mech	anics I		(3) MSE 23000 Structures and Properties Materials			
(3)	ME 20000 Thermody	namics I			(3) ECE 30100 Signals and Systems		
Selectives -	(21 credits) (https://eng	neering.purdu	ie.edu/BME/Academics/	BMEUndergraduateProgram/Acad	demicDocuments/Plano	<u>fStudy</u> )	
(15)	<b>Engineering Selective</b>	es ( Includi	ng Quantitative Bro	eadth Requirement)			
(6)	Life Sciences Core Se	lectives					
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_	am Course Requireme			··· ··································			
(4)	MA 16500/16100 C		•	-			
(4)	MA 16600/16200/1		, ,	•			
(4)				nd Physics requirement) Is Math and Physics require	amant)		
(4)		_		•	•	··*	
(3)			•	cal Engineering Required	-	it) '	
(4)	CHM 11500 General Chemistry I ( Satisfies FYE requirement; Science Selective for core						
(4)	CHM 11600/13600 General Chemistry II (Satisfies FYE requirement; Science Selective for core) PHYS 17200 Modern Mechanics (Satisfies FYE requirement; Science Selective for core)						
(4)					•		
(3)		-		and Physics requirement)			
(3)				e Science Core requirement ation I ( Satisfies FYE requi			
(2)	-		-	ition I ( Satisfies FYE requi			
(2) (3)				FYE Science Requirement)			
(3)				quirement; Written Comm		ational Literacy for	
(3)	core)	Compositi	on (sucisfies i i Lie	quirement, written comm	unicaciony injornic	actional Effectacy for	
(3)	Unrestricted Elective	S					
(0)	om estricted Elective	.5					
General El	ectives (18 credits)						
(3)	Ethics/Healthcare	(3)	G.EIV	( )		( )	
	Policy Selective	( )					
(3)	G.EII	(3)	G.EV	()		()	
(3)	G.EIII	(3)	G.E VI			( )	
Umirromaiter C	ana Daguinamanta						
	ore Requirements			Science, Technology & Society	Selective □		
Human Cultures Humanities  Human Cultures Behavioral/Social Science				Written Communication			
Information Literacy				Oral Communication			
Science Selective				Quantitative Reasoning	7		
Science Selective		П		,y			
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Biomedical Engineering
<a href="https://engineering.purdue.edu/BME/Academics/BMEUndergraduateProgram/AcademicDocuments/PlanofStudy">https://engineering.purdue.edu/BME/Academics/BMEUndergraduateProgram/AcademicDocuments/PlanofStudy</a>

**Suggested Arrangement of Courses:** 

Credits	Fall 1st Year	Prerequisite	Credits	Spring 1st Year	Prerequisite
4	MA 16500	<u> </u>	4	MA 16600	MA 16500
4	CHM 11500		4	CHM 11600	CHM 11500
4	PHYS 17200		3	CS 15900	
2	ENGR 13100		2	ENGR 13200	ENGR 13100
3/4	ENGL 10100/10600/10800		3	General Elective	
17/18			16		

Credits	Fall 2nd Year	Prerequisite	Credits	Spring 2nd Year	Prerequisite
3	BME 20100	CHM 11600, ENGR 13100,13200, MA 16600	3	BME 20400	BIOL 23000, ME 27000
3	BIOL 23000		3	MSE 23000	CHM 11500, MA 16500
1	BME 20500	CHM 11600 ,ENGR 13100,13200,MA 16600	1	BME 20600	ME 27000,BME 20500
1	BME 29000	BME majors only	3	BME 25600	PHYS 24100, BIOL 23000, CS 15900
4	MA 26100	MA 16600	3	MA 26200	MA 26100
3	ME 27000	PHYS 17200, ENGR 13200	3	ME 20000	CHM 11500, ENGR 13200
3	PHYS 24100	PHYS 17200, MA 16600			
18			17		

Credits	Fall 3rd Year	Prerequisite	Credits	Spring 3rd Year	Prerequisite
3	BME 30100	PHYS 24100, MA 16600, CS 15900	2	BME 30600	BME 30400
3	BME 30500	PHYS 24100 or 27200, MA 26200 or 26600, BME 20600	2	BME 39000	BME 29000, Junior standing
3	BME 30400	ME 20000, MA 26200 or 26600	3	ECE 30100	BME 30500, MA 26200
3	BME Technical Elective		3	STAT 51100	MA 16600
3	General Education or Ethics Selective		3	BME Technical Selective	
			3	General Elective or Ethics Selective	
15	•		16	•	

Credits	Fall 4th Year	Prerequisite	Credits	Spring 4th Year	Prerequisite	
1	BME 48800	BME 30600	3	BME Technical	-	
•	DIVIE 10000			Selective		
2	BME 48900		3	BME Technical Elective		
1	BME 49000	BME 39000, ECE 30100	2	Life Science		
1		and senior standing	3	Selective		
3	BME Technical		2	Conoral Floative		
	Selective (Q.B)		3	General Elective		
3	General Elective		3	General Elective		
3	Life Science Elective					
3	Unrestricted Elective					
16			15			

130 semester credits required for Bachelor of Science in Biomedical Engineering degree.

A minimum Graduation Index and BME Major GPA of at least 2.0 is required to qualify for graduation with a BSBME. All required First Year Engineering (FYE) courses must be completed with a C- or above for entry into BME.

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The student is ultimately responsible for knowing and completing all degree requirements.
Degree Works is knowledge source for specific requirements and completion