

**UTSA 2016-2017 UNDERGRADUATE CATALOG**  
**BIOMEDICAL ENGINEERING**  
**RECOMMENDED PROGRAM OF STUDY**

*Revised 09/01/2016*

Year 1		Fall (Semester I)		Year 1		Spring (Semester I)					
MAT 1214	Calculus I Core and major)	4		BME 1002	Introduction to BME	2					
AIS 1203	Academic Inquiry and Scholarship	3		MAT 1224 or EGR 1324	Calculus II or Calculus II for Engineers	4					
CHE 1103	General Chemistry I	3		CHE 1113	General Chemistry II	3					
WRC 1013	Freshman Comp I (Q) (core)	3		WRC 1023	Freshman Comp II (Q) (core)	3					
BIO 1404	Biosciences I (Core and major)	4		PHY 1943	Physics for Scientists & Eng I (core)	3					
				PHY 1951	Physics for Scientists & Eng I Lab	1					
Total Semester Credit Hours		17		Total Semester Credit Hours		16					
Year 2		Fall (Semester III)		Year 2		Spring (Semester IV)		Year 2		Summer II	
BME 2103	Physiology for BME	3		BME 2203	Biomechanics I	3		BME 3013	Clinical Internship in BME	3	
PHY 1963	Physics for Scientists & Eng II	3		BME 3003	Biomaterials I	3					
PHY 1971	Physics for Scientists & Eng II Lab	1		BME 3114	Cell Biology for BME	4					
EGR 2323	Applied Engineering Analysis I	3		BME 3211	Biomedical Engineering Lab I	1					
Tech Elec*	Technical Elective	3		Tech Elec*	Technical Elective	3					
STA 1403 or STA 2303	Probability & Stat for Biosciences or Appl Probability & Stat for Eng	3									
Total Semester Credit Hours		16		Total Semester Credit Hours		14		Total Semester Credit Hours		3	
Year 3		Fall (Semester V)		Year 3		Spring (Semester VI)		Year 3		Summer III	
BME 3303	Bioinstrumentation	3		BME 3023	BME Tech & Product Develop	3		BME 3033	Indus Intern in BME (BME Elec)	3	
BME 3311	Biomedical Engineering Lab II	1		BME 3703	Biotransport Phenomena	3					
BME Elec	Approved BME Elective	3		BME 3711	Biomedical Engineering Lab III	1					
Tech Elec*	Technical Elective	3		BME Elec	Approved BME Elective	3					
POL 133 or POL 1213	Texas Politics and Society (Core)	3		POL 1013	Introduction to American Politics (Core)	3					
Total Semester Credit Hours		13		Total Semester Credit Hours		13		Total Semester Credit Hours		3	
Year 4		Fall (Semester VII)		Year 4		Spring (Semester VIII)					
BME 4903	BME Senior Design I	3		BME 4913	BME Senior Design II	3					
BME Elec	Approved BME Elective	3		CORE	American History (core)	3					
BME Elec	Approved BME Elective	3		CORE	Component Area Option (core)	3					
Core	Creative Arts (core)	3		CORE	Social & Behavioral Science (core)	3					
Core	American History (core)	3		CORE	Language, Phil & Culture (core)	3					
Total Semester Credit Hours		15		Total Semester Credit Hours		15					
							<b>Total Required Degree Hours</b>		<b>125</b>		

\*Tech Elec: Beginning 17-18, students **MUST** selected a minimum of 2 courses from one of the following tracks.

Track 1	Track 2	Track 3
EE 2213	EGR 2103	EGR 2213
EGR 3323	ME 3293	EGR 3323
EGR 4993	ME 3813	EGR 3713
	EGR 4993	EGR 4993