

## Biomedical Engineering Degree Plan

Year	Term	Title	Credit Hour	Total Credit Hrs/Term
<b>First Year</b>	<b>Fall</b>	Seminar in Biomedical Engineering	1	
		Ph.D. Seminar in BME	1	
		Directed Lab Training - I	3	
		Research	1	
	<b>Spring</b>	Laboratory Course**	3	Semester Total: 9
		Directed Lab Training - II	3	
		Computer & Physical Science - or- Math/Statistics course	3	
	<b>Summer</b>	Advanced coursework* -or- Research	3	Semester Total: 9
Life Sciences***		3		
		Research	3	Semester Total: 6
<b>Second Year</b>	<b>Fall</b>	Life Sciences***	3	
		Advanced coursework*	Variable	
		Research	Variable	Semester Total: 9
	<b>Spring</b>	Advanced coursework*	Variable	
		Computer & Physical Science - or- Math/Statistics course	3	
		Life Sciences***	3	
		Research	Variable	Semester Total: 9
	<b>Summer</b>	Research	3	
Life Sciences***		3	Semester Total: 6	
<b>Third Year</b>	<b>Fall</b>	Life Sciences***	3	
		Diagnostic Exam I	1	
		Ph.D. Seminar in BME	1	
		Research	4	Semester Total: 9
	<b>Spring</b>	Advanced coursework*	Variable	
		Research	Variable	Semester Total: 9
	<b>Summer</b>	Research	4	
Exam II		2	Semester Total: 6	
<b>Fourth Year</b>	<b>Fall</b>	Doctoral Research in BME	9	Semester Total: 9
	<b>Spring</b>	Doctoral Research in BME	9	Semester Total: 9
	<b>Summer</b>	Dissertation Prep & Defense-Exam III	6	Semester Total: 6
<b>Minimum Credit Hours for PhD</b>				<b>96</b>

Advanced Coursework*	Credit Hour
Tissue Engineering	3
Tissue Engineering Lab	3
Biostats for Clinical Science I	3
Design & Application of Artificial Organs	3
Biomaterials & Blood Compatibility	3
Thermoregulation & Bioheat Transfer	3
Digital Processing of Medical Images	3
Intro to Molecular Engineering	3
Selected Engineering Courses at UTA	3
Tissue Engineering	3

Laboratory Courses*	Credit Hour
Drug Delivery	3
Biomedical Instrumentation I	3
Laboratory Principles	3

Life Sciences*	Credit Hour
Biochemistry	3
Physiology	3
Mammalian Physiology	3
Anatomy	3
Anatomy lab	3

First year BME students take 9 credit hours in fall and spring, and 6 credit hours in the summer semesters, which typically continues in subsequent years while they are enrolled in the Ph.D. program of study. All BME students must take a minimum of 1 credit hour of seminar, 2 credit hours of PhD seminar, 3 credit hours in laboratory coursework, 15 credit hours in life sciences coursework and 27 credit hours of advanced coursework. Basic coursework is completed in the first semester of the third year, and elective courses and exam II are completed typically by the end of the third year. In the fourth/subsequent year(s) students are enrolled for research, seminars, electives, or journal clubs totaling full-time enrollment equivalency.