

## BME MS Degree Plan

Year	Term	Title	Credit Hour	Total Credit Hrs/Term
First Year	Fall	Seminar	1	
		Laboratory course**	3	
		Life science course***	3	
		Research	2	Semester Total: 9
	Spring	Advanced coursework*	Variable	
		Research	Variable	Semester Total: 9
Summer	Life science course***	3		
	Thesis Research	3	Semester Total: 6	
Second Year	Fall	Advanced coursework*	Variable	
		Thesis Research	Variable	Semester Total: 9
	Spring	Advanced coursework*	3	
		Thesis Research	Variable	Semester Total: 9
	Summer	Thesis Research	6	Semester Total: 6
Third Year	Fall	Thesis Research	Variable	Semester Total: 9
	Spring	MS Research and Defense	6	Semester Total: 9
<b>Minimum Credit Hours for MS</b>				<b>66</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	Variable

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 summer semesters, with this pattern repeated in subsequent years. All BME students must take a minimum of 1 credit hour of seminar, 3 credit hours in laboratory coursework, 6 credit hours in life sciences coursework and 15 credit hours of advanced coursework. Typically, didactic coursework is completed in the first two years, and in subsequent years students are enrolled for research, advanced coursework electives, totaling full-time enrollment equivalency.