



**Biomedical Engineering MS Degree Plan - 33 Total Credit Hours**  
**Department of Bioengineering**  
**Erik Jonsson School of Engineering and Computer Science**

Student: \_\_\_\_\_

UTD ID: \_\_\_\_\_

Admitted: \_\_\_\_\_

Expected Graduation Date: \_\_\_\_\_

Program Prerequisites:		Semester	Grade	Credit Hours	Transfer/Waived	Comment
BMEN 3330	Engineering Phys. Of Human Body					
MATH 2415/2419	Calc I/CalcII					
ENGR 3300	Advanced Engr. Math					
CHEM 1312	General Chemistry					
EE 3302	Signals & Systems					
PHYS 2325	Mechanics					
PHYS 2326	Electromagnetism & Waves					
Required BMEN Core (must choose 3 courses), 9 Total Hours:		Semester	Grade	Credit Hours	Transfer/Waived	Comment
BMEN 6351	Biomedical Microdevices					
BMEN 6355 (MSEN 6355)	Nanotechnology & Sensors					
BMEN 6373 (EEBM 6373)	Anatomy and Human Physiology for Eng.					
BMEN 6374 (EEBM 6374)	Genes, Proteins and Cell Biology for Eng.					
BMEN 6375	Techniques in Cell and Molecular Biology					
BMEN 6386	Biological Processes: Modeling & Simulation					
BMEN 6387 (BIOL 5376)	Applied Bioinformatics					
Elective List (must choose 4 total courses), 12 Total Hours:		Semester	Grade	Credit Hours	Transfer/Waived	Comment
BMEN 5312	Biomechanics in Human Diseases					
BMEN 6341	Biostatistics					
BMEN 6372	Eng. Systems: Modeling & Simulation					
BMEN 6376	Lecture in Biomed Eng.					
BMEN 6377	Protein Engineering					
BMEN 6378	Mechanobiology for Engineers					
BMEN 6380	Intro to Cellular Microscopy					
BMEN 6381	Advanced Concepts in Microscopy					
BMEN 6382	Systems Biology					
BMEN 6388	Non-Linear Dynamics in Biomed Eng.					
BMEN 6389	Computational Biology					
BMEN 6390	Metabolic Pathways for Translational Medicine					
BMEN 6391	Intro to Proteomics					
BMEN 6392	Bioinstrumentation & Systems					
BMEN 6V87	Biomaterials					
Approved Electives/Thesis Hours, 12 Total Hours:		Semester	Pass/Fail	Credit Hours		Comment
BMEN 6V98	THESIS (3 - 9 Semester Hours)					
BMEN 7V87	Special Topics in BMEN (various)					
BMEN 7v88	Advanced Seminars in BMEN					

\_\_\_\_\_  
 \_\_\_\_\_  
 Total Hours Earned: \_\_\_\_\_

Thesis	Completed	Comments
Committee Appointment Form Received		
Thesis Defense Scheduled		
Thesis Result Form Received		

\_\_\_\_\_  
 Student

\_\_\_\_\_  
 Supervising Professor (Thesis only)

\*First year graduate students cannot do research in UT Southwestern Labs with a UT Southwestern P.I.

\*Submit all Transfer and Waiver Request forms within first semester of admission.

**NOTES:**