Master of Science in Biomedical Engineering
Degree Plan: Thesis – 30 hours

Student Name:	UNT ID:	Signature:
Local Telephone:	**Email:**	**Date:**

Major Professor:	Signature/Date:	
Committee Member*:	Signature/Date:	
Committee Member*:	Signature/Date:	
Committee Member*:	Signature/Date:	
Graduate Program Coordinator: **Vijay Vaidyanathan**	Signature/Date:	
Department Chair: **Vijay Vaidyanathan**	Signature/Date:	

Faculty members from BMEN; Student may add extra members from other departments as necessary.

Other Requirements	Expect to Complete Semester/Yr.	Notes
English Proficiency		
Leveling Course(s)		
Thesis Proposal Presentation		

➢ Course offerings vary from year to year and are based on enrollment and resources. The Major Professor and the student are advised to tailor the degree plan based on course availability.

➢ Courses registered without Advisor's approval or any unapproved deviations from the degree plan may result in no credit toward degree requirements. **Student initials**: _____

➢ The Thesis Proposal must be presented during the first semester the student is registered in BMEN 5950. Consult with Major Professor. **Student initials**: _____

➢ The Thesis Option requires strong academic standing, and 6 credits of BMEN 5950 with a Major Professor. Typically, a student will enroll in BMEN 5950 in two consecutive semesters (3 credits each) in the second year of the program. During the first 3 credits of BMEN 5950, the student and Major Professor define a Thesis Proposal, and the student presents the Proposal to a faculty Thesis Committee for approval.

➢ The responsibility for adhering to Graduate School, College and Departmental requirements rests entirely with the student. Application for graduation must be filed in the Graduate School Office before the deadline in force during the final semester. Consult the Toulouse Graduate School and the Graduate Catalog for further information http://tsgs.unt.edu

Block A - BMEN Core Courses - 6 Semester Credit Hours (* Required)	Semester expected to Complete	Grade	sch
BMEN 5210 – Biomedical Engineering Laboratory*			2
BMEN 5940 – Biomedical Engineering Seminar*			1
BMEN 5100 – Standards and FDA Regulations **OR**			3
BMEN 5007 – Research Methods in Biomedical Engineering **OR**			3
BMEN 5315 – Computational Methods in Biomedical Engineering			3
Block B - BMEN Courses - 9 Semester Credit Hours	Semester expected to Complete	Grade	sch
BMEN 5005 – Neuroengineering			
BMEN 5007 – Research Methods in Biomedical Engineering			
BMEN 5100 – Standards and FDA Regulations			
BMEN 5150 – Medical Device Marketing and New Product Integration			
BMEN 5280 – AI for Wearables and Healthcare			
BMEN 5310 – Clinical Instrumentation			
BMEN 5311 – Rehabilitation Engineering			
BMEN 5312 – Advanced Signal Processing in Biomedical Engineering			
BMEN 5313 – Bioengineering of Cellular Systems			
BMEN 5314 – Advanced Tissue Engineering and Regenerative medicine			
BMEN 5315 – Computational Methods in Biomedical Engineering			
BMEN 5316 – Biopolymers and Flexible Bioelectronics			
BMEN 5317 – Advanced Biotechnology			
BMEN 5318 – Biomedical Implants			
BMEN 5319 – Cardiovascular Fluid Dynamics			
BMEN 5320 – Advanced Biomechanics			
BMEN 5321 – Biomaterials Compatibility			
BMEN 5322 – Medical Imaging			
BMEN 5323 – Advanced Biomedical Optics			
BMEN 5324 – Applications of Biomedical MEMS			

BMEN 5325 – Biomedical Nanotechnology Compatibility			
BMEN 5326 – Biomolecular Engineering			
BMEN 5327 – Immuno-Engineering			
BMEN 5330 – Three-Dimensional Bioprinting			
BMEN 5331 – Drug Delivery and Nanomedicine			
BMEN 5332 – Soft Robotics in Biomedical Engineering			
BMEN 5700 – Introduction to Statistical Genetics			
BMEN 5800 – Topics in Biomedical Engineering			
BMEN 5810 – Topics in Biomedical Engineering			
BMEN 5890 – Directed Study in Biomedical Engineering			
BMEN 5900 – Special Problems in Biomedical Engineering (maximum of 6 sch)			
BMEN 5910 – Special Problems in Biomedical Engineering			
BMEN 5920 – Cooperative Education in Biomedical Engineering			

Block C – Thesis, 6 Semester Credit Hours	Semester expected to Complete	Grade	sch
BMEN 5950 – Master's Thesis			3
BMEN 5950 – Master's Thesis			3

Block D – Electives, 9 Hours	Semester expected to Complete	Grade	sch
5000 or 6000 level courses from any of BMEN, EENG, MEEN, MTSE, CSCE, ADTA or BIOL 5000 level or above MGMT/LSCM/MKTG courses from the College of Business 5000 level or above HLSV courses from the College of Health and Public Service 5000 level or above MUPH courses in Performance Arts Health from the College of Music 6000 level or above ASLP courses in Audiology from the College of Health and Public Service 5000 level or above DTSC courses in Data Science from the College of Information			
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Total Semester Credit Hours (sch) Complete: [ ]