## University of North Texas

## Master of Science in Biomedical Engineering Degree Plan: Non-Thesis – 33 hours

Student Name:	UNT ID:		Signature:
Local Telephone:	Email:		Date:
Maior Duofesson		Cianatura /Data	
Major Professor:		Signature/Date:	
Graduate Program Coordinate	or: <b>Vijay Vaidyanathan</b>	Signature/Date:	
Department Chair:	Vijay Vaidyanathan	Signature/Date:	

<sup>\*</sup>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		

- > 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.
- 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 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 <a href="http://tsgs.unt.edu">http://tsgs.unt.edu</a>

BMEN 5210 – Biomedical Engineering Laboratory*  BMEN 5940 – Biomedical Engineering Seminar*  BMEN 5100 – Standards and FDA Regulations OR  BMEN 5007 – Research Methods in Biomedical Engineering OR  BMEN 5315 – Computational Methods in Biomedical Engineering  Block B - BMEN Courses - 18 Semester Credit Hours  BMEN 5005 – Neuroengineering  BMEN 5007 – Research Methods in Biomedical Engineering  BMEN 5000 – Standards and FDA Regulations  BMEN 5100 – Standards and FDA Regulations  BMEN 5280 – Al 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 bio-electronics  BMEN 5317 – Advanced Biotechnology	2 1 3 3 3 sch
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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 – 3D Bioprinting	
BMEN 5331 – Drug Delivery and Nano-medicine	
BMEN 5332 – Soft Robotics in Biomedical Engineering	
BMEN 5700 – 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	
BMEN 5910 – Special Problems in Biomedical Engineering	
BMEN 5920 – Cooperative Education in Biomedical Engineering	
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Block C – 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			
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Total Semester Credit Hours (sch) Complete:	