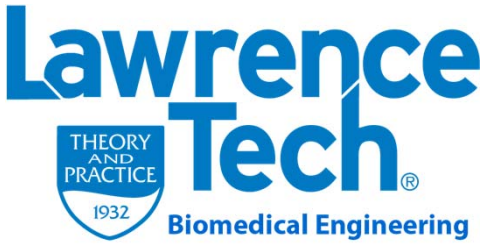
Masters of Science in Biomedical Engineering Program Curriculum

Design Project Option

YEAR ONE	
Fall Semester	Spring Semester
Advanced Mathematics	Advanced Biology/ Physiology
BME 6303 Cell Mechanobiology	BME 6203 Biocompatibility
BME 5**3 Biomedical Eng Elective	BME 6503 Advanced Experimental Methods

YEAR TWO	
Fall Semester	Spring Semester
BME 6103 Bioelectrical Physics	BME 5**3 Biomedical Eng Elective
BME 6803 Design Project Or BME 5**3 Elective	BME 6803 Master's Design Project



Research Thesis Option

YEAR ONE	
Fall Semester	Spring Semester
Advanced Mathematics	Advanced Biology/ Physiology
BME 6303 Cell Mechanobiology	BME 6203 Biocompatibility
BME 6503 Advanced Experimental Methods	BME 6903 Research Or BME 5**3 BME Elective

YEAR TWO	
Fall Semester	Spring Semester
BME 6103 Bioelectrical Physics	BME 5**3 Biomedical Eng Elective
BME 6903 Master's Research	BME 6903 Master's Research

Lawrence Technological University

Biomedical Engineering Master of Science Program Checklist

Name _____ **Entrance Date _____ Student # _____**

Faculty Advisor _____ **Title _____**

Advanced Mathematics (3 credits)		**Sem.**	**Grade**
EME 5253	Engineering Analysis 1		
EEE 5114	Engineering Analysis		
EME 6283	Engineering Analysis 2		
MCS 6603	Statistical Methods		

Advanced Biology/Physiology (3 credits)		**Sem.**	**Grade**
BME 5703	Quantitative Physiology		
BME 5713	Cell and Molecular Biology		

Biomedical Engineering (9 credits)		**Sem.**	**Grade**
BME 6103	Bioelectrical Physics		
BME 6203	Biocompatibility		
BME 6303	Cell Mechanobiology		
BME 6403	Biosignals and Systems		

BME Laboratory (3 credits)		**Sem.**	**Grade**
BME 6503	Adv. Experimental Methods		

BME Electives (3-9 credits)		**Sem.**	**Grade**
BME 5203	Biosurface Chemistry		
BME 5123	Biomedical Simulations		
BME 5303	Orthopedics		
BME 5093	Computer Applications in BME		

Professional Educational Experiences		**Sem.**	**Date**
Ethics			
Statistics			
Regulatory Issues			
Industry/ Academic Meeting			

Project or Thesis Option (3-9 credits)		**Sem.**	**Grade**
BME 6803	Master's Design Project		
BME 6903	Master's Research Thesis		

Committee	**Signature**	**Date**
Advisor		
Member		
Member		