MASTER OF SCIENCE IN BIOMEDICAL ENGINEERING

The overall objective of the Master of Science in Biomedical Engineering degree is to provide training relevant to professional employment in a BME-related field. A minimum total of 32 credit hours is required for this degree, of which at least 24 credit hours must come from coursework; six to eight credit hours of research are required. This degree requires completion of a written dissertation and a subsequent oral defense of it before an approved master's thesis examination committee.

Admission Criteria

Because the M.S. degree requires the time and frequently the resources of a faculty mentor to be available in order to adequately execute the research component of the degree, the BME department will admit candidates who not only have the credentials suitable for this degree but for which a department faculty member consents to serve as the candidate's research mentor.

MASTER OF SCIENCE IN BIOMEDICAL ENGINEERING					
Requirement			Credits		
Minimum Degree Credits				32	
Maximum 400-Level Credit			12		
Code		Title			Credit Hours
Required Courses					(8)
BME 500		Introduction to Biomedical Engineering		gineering	2
BME 533		Biostatistics			3
or BME 433		Biomedical Engineering Applications of Statistics			
or CHE 426		Statistical Tools for Engineers			
or MATH 425		Statistical Methods			
BME 553		Advanced Quantitative Physiology			3
or BME 453		Quantitative Physiology			
Choose either a non-thesis (course-based) or thesis option					
NON-THESIS OPTION					
Code		Title			Credit Hours
Non-Thesis Electiv	/es				(24)
Choose 4 courses (12 credit hours) of 400- or 500-level BME ²					
Choose 4 courses (12 credit hours) of 400- or 500-level Engineering, Math, Computer Science, or Life Sciences with Advisor Approval ¹					
THESIS OPTION					
Code			BME 400:599 (Excluding BME 492, BME 503-510, BME 591, BME		
			Hours	594, and BME 597).	
Thesis Core			(9)		
BME 501	Communication Skills in BME 1				
BME 591	Research and Thesis for Master of8Science Degree		8		
Thesis Electives (15)					
Choose 3 courses (9 credit hours) of 400- or 500-level 9 Engineering, Math, Computer Science, or Life Sciences with Advisor Approval ¹					
Choose 2 courses (6 credit hours) of 400- or 500-level 6 BME ²					
Engineering Cou Options include I PHYS 400:599, B 400:599, MMAE	rses: MATH 400:599, BIOL ME 400:599, CAE 40 400:599, ECE 400:59	5, Computer Science, 400:599, CHEM 400: 00:599, CS 400:599, Cl 19, and ENGR 400:599 plines. Advisor approv			

² Biomedical Engineering Electives: