Master of Science in Engineering

Degree Codes: ES MSE ENGR Concentration: Biomedical Engineering Contact: Prof. Steven A. Jones

Overall requirements for the specific options are as follows:

Requirements for all degree types

Course Category	Number	Course Name		SCH
Core Courses	ENGR 510	Introduction to Engineering and Science Research Methods	2	5
	Engineering Ma	athematics: select <u>one</u> of the following two courses	·	
	ENGR 520	Advanced Mathematical Methods for Engineering and Physics	3	
	ENGR 592	Engineering Computational Methods	3	
Concentration Courses*	BIEN 500	Systems Physiology for Biomedical Engineers	4	12
	BIEN 501	Physiological Modeling I	4	
	BIEN 510	Bioinstrumentation	4	
	_			Total 17

Thesis Option (in addition to the courses above)

Course Category	Number	Course Name		SCH
Core Courses	ENGR 511	Engineering and Science Research Proposal Development	1	1
Electives**	Two courses (6	Two courses (6 semester hours) approved by the student's advisory committee		
Thesis	BIEN 551	Research & Thesis (6 SCH are required with at least 3 SCH taken in the quarter the thesis is reviewed and approved)		6
				Total 30

Practicum Option (in addition to the courses above)

Course Category	Number	Course Name		SCH
Core Courses	BIEN 511	Biomedical Engineering Seminar	1	1
Electives**	Five courses (1	Five courses (15 semester hours) approved by the student's advisory committee		15
Practicum	BIEN 555	Practicum		3
,				Total 36

Coursework Only Option (in addition to the courses above)

Course Category	Number	Course Name		SCH
Core Courses	BIEN 511	Biomedical Engineering Seminar	1	1
Electives**	Four courses (12 s	Four courses (12 semester hours) approved by the student's advisory committee		12
MATH/STAT	One MATH and or	ne STAT course		6
				Total 36

^{*}The concentration courses for the concentration in Biomedical Engineering.

^{**}The maximum number of variable credit Directed Study courses that can be applied towards the degree is 6 SCH.

Plan of Study Important Information: When entering information in the plan of study, it is important to note that <u>only</u> core courses and <u>all</u> core courses need to be put in section 1.1, while all others are put in section 1.2 (i.e. special topics, seminar, and research courses). See http://coes.latech.edu/grad-programs/plan-of-study-instructions.pdf for plan of study instructions.

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