

Master of Science in Engineering

Degree Codes: ES MSE ENGR

Concentration: Biomedical Engineering

Contact: Professor Steven A. Jones

SCH Requirements: Thesis option: 30 SCH; Practicum option: 36 SCH; Coursework-only option: 36 SCH

Thesis Option: Research & Thesis SCH toward degree: 6

Practicum Option: Practicum SCH toward degree: 3

Coursework-only Option: As described below.

Course Category	Number	Course Name	SCH
Core Courses	<i>Take ENGR 501 and another course from this list</i>		6
	ENGR 501	Engineering Research Methods	3
	ENGR 541	Mathematical Methods for Engineering	3
	ENGR 592	Engineering Computational Methods	3
Concentration Courses	<i>The following courses are required for students earning a concentration in Biomedical Engineering.</i>		12
	BIEN 500	Systems Physiology for Biomedical Engineering	4
	BIEN 501	Physiological Modeling I	4
	BIEN 510	Bioinstrumentation	4

Beyond this point, follow one of the three options below. A Plan of Study showing the option selected is due at the end of the first quarter of enrollment. Approval of the graduate advisor will be required to switch options or advisors at a later date.

COURSEWORK-ONLY OPTION		
Electives	<i>4 courses approved by the Advisory Committee*</i>	12
MATH/STAT	One MATH and one STAT course	6
TOTAL		36

THESIS OPTION				PRACTICUM OPTION		
Course Category	Number	Course Name	SCH	Number	Course Name	SCH
Other courses	<i>2 courses approved by the Advisory Committee*</i>		6	<i>5 courses approved by the Advisory Committee*</i>		15
Thesis or Practicum	BIEN 551	Research & Thesis in BME	6	BIEN 555	Practicum in BME	3
TOTAL			30	TOTAL		36

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