

Biomedical Engineering B.S.B.E.

4- Year Plan of Study

Items marked with a ☒ are critical for the student to remain on track for graduation.

Notes

The Plan of Study is a static review of the degree. Connect with your major advisor for a personalized path toward graduation.

Potential Entry Level Job Titles:

Health Coordinator ◦ Medical Scientist ◦ Medical Assistant

Potential Entry Level Salary Range:

\$54,000 - \$61,000

Semester 1 - Fall

Crit	Course/Requirement	Credits
<input type="checkbox"/>	BME 3009 - Biomedical Engineering	3
<input checked="" type="checkbox"/>	CHM 2045 - General Chemistry I	3
<input type="checkbox"/>	CHM 2045L - General Chemistry I Lab	1
<input checked="" type="checkbox"/>	EGN 3000 - Foundations of Engineering	0
<input type="checkbox"/>	EGN 3000L - Foundations of Engineering Lab	3
<input type="checkbox"/>	ENC 1101 - Composition I	3
<input checked="" type="checkbox"/>	MAC 2311 - Calculus I	4
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		

Semester 2 - Spring

Crit	Course/Requirement	Credits
<input type="checkbox"/>	CHM 2046 - General Chemistry II	3
<input checked="" type="checkbox"/>	CHM 2046L - General Chemistry II Lab	1
<input type="checkbox"/>	ENC 1102 - Composition II	3
<input checked="" type="checkbox"/>	MAC 2312 - Calculus II	4
<input checked="" type="checkbox"/>	PHY 2048 - General Physics I	3
<input type="checkbox"/>	PHY 2048L - General Physics I Laboratory	1
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		

Semester 3 - Summer		
Crit	Course/Requirement	Credits
<input type="checkbox"/>	Consider pursuing an Education Abroad, Internship, Community Engagement, or Research Experience in the Summer term.	0
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		

Semester 4 - Fall		
Crit	Course/Requirement	Credits
<input checked="" type="checkbox"/>	BME 3060 - BME Fundamentals	3
<input type="checkbox"/>	BSC 2010 - Bio I - Cellular Processes	3
<input type="checkbox"/>	BSC 2010L - Bio I Cellular Processes Lab	1
<input checked="" type="checkbox"/>	MAC 2313 - Calculus III	4
<input checked="" type="checkbox"/>	PHY 2049 - General Physics II	3
<input type="checkbox"/>	PHY 2049L - General Physics II Laboratory	1
<input type="checkbox"/>	Apply for Progression to Upper Division	0
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		

Semester 5 - Spring		
Crit	Course/Requirement	Credits
<input type="checkbox"/>	AMH 2010 OR AMH 2020 OR POS 2041 (SCIV/SGES)	3
<input checked="" type="checkbox"/>	BME 3053 - Computer Programming for BME	3
<input type="checkbox"/>	CHM 2210 - Organic Chemistry I	3
<input checked="" type="checkbox"/>	EGN 3433 OR MAP 2302	3
<input checked="" type="checkbox"/>	EGN 3373 - Electrical Systems I	3
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		

Semester 6 - Summer		
Crit	Course/Requirement	Credits
<input type="checkbox"/>	EGN 2440 - Prob & Statistics With Calc	3
<input type="checkbox"/>	EGN 3343 - Thermodynamics I	3
<input type="checkbox"/>	Gen-Ed USF Humanities (UGEH)	3
<input type="checkbox"/>		
<input type="checkbox"/>		

Semester 7 - Fall		
Crit	Course/Requirement	Credits
<input type="checkbox"/>	BME 4232 - Biomechanics	3
<input type="checkbox"/>	BME 4503 - Biomedical Instrumentation	3
<input checked="" type="checkbox"/>	BME 4508 - BME Signals & Systems Analysis	3
<input type="checkbox"/>	Gen-Ed State Humanities (SGEH)	3
<input type="checkbox"/>	Major Elective - STEM	3
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		

Semester 8 - Spring		
Crit	Course/Requirement	Credits
<input checked="" type="checkbox"/>	BME 3082 - Ethics for Biomed Engineers	3
<input checked="" type="checkbox"/>	BME 3312 - Molecular & Cell Engineering	3
<input checked="" type="checkbox"/>	BME 4056C - Biomedical Engineering Lab I	2
<input type="checkbox"/>	BME 4104 - Biomaterials Engineering	3
<input type="checkbox"/>	BME 4409 - Engineering Physiology	3
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		

Semester 9 - Summer		
Crit	Course/Requirement	Credits
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		

Semester 10 - Fall		
Crit	Course/Requirement	Credits
<input type="checkbox"/>	BME 3632 - Biomedical Transport Process	3
<input type="checkbox"/>	BME 4057C - Biomedical Engineering Lab II	2
<input type="checkbox"/>	BME 4514C - Embedded Systems for BME	3
<input checked="" type="checkbox"/>	BME 4882 - BME Design I	3
<input type="checkbox"/>	Major Elective - BME	3
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		

Semester 11 - Spring		
Crit	Course/Requirement	Credits
<input type="checkbox"/>	BME 4883C - BME Design II	3
<input type="checkbox"/>	Gen-Ed USF Social Sciences (UGES)	3
<input type="checkbox"/>	Major Elective - BME	3
<input type="checkbox"/>	Major Elective - STEM	3
<input type="checkbox"/>	Apply for Graduation	0
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		