

Study Plan for BS in Biomedical Engineering

First Semester			SECOND SEMESTER		
Course#	Course Name	CR	Course#	Course Name	CR
ELEC 223	Digital Fundamentals	3	ELEC 221	Electric Circuits I	3
PHY205	General Physics II: Electromagnetics and Optics	3	ELEC 223L	Digital Fundamentals Lab	1
MATH 202	Calculus & Analytic Geometry	3	MATH 332	Linear Algebra	3
CSC 203	Programming Structures & abstractions	3	PHY203	General Physics I: Mechanics	3
	University Requirement	3		University Requirement	3
CHM221	Organic Chemistry I	3	CHM303	General Biochemistry	3
CHM221L	Organic Chemistry I Lab	1	CHM303L	General Biochemistry Laboratory	1
		19		Total	17
THIRD Semester			FOURTH Semester		
Course#	Course Name	CR	Course#	Course Name	CR
ELEC 221L	Electric Circuits I Lab	1	BME401L	BME Lab I	1
CNE340	Signals and Systems	3	ELEC330	Electronics I	3
PHY 223	Thermodynamics and Modern Physics	3	PHY211	Material Science	3
MATH 222	Discrete Math	3	MATH 342	Ordinary Differential Equations	3
BME274	BME Modeling & Simulation	3	BME370	Eng Analysis of Biological Sys I	3
BME332	Biomedical Engineering Transport	3	BME371	BME Data Evaluation Principles	3
MATH 352	Probability & Statistics	3		University Requirement	3
	Total	19		Total	19
FIFTH Semester			SIXTH Semester		
Course#	Course Name	CR	Course#	Course Name	CR
MATH203	Calculus IV	3	ENG499	Special Project/internship	3
BME458	Biomedical Engineering Principles	3	MATH 442	Numerical Methods	3
	BME Major Elective	3		BME Major Elective	3
	University Requirement	3		University Requirement	3
	Free Elective	3		Free Elective	3
BME402L	BME LAB II	1			
	Total	16		Total	15