

Study Plan for Engineering Diploma in Biomedical Engineering

First Semester			Second Semester		
Course#	Course Name	CR	Course#	Course Name	CR
MATH202	Calculus III	3	MATH332	Linear Algebra	3
PHY205	Electromagnetics and Optics	3	PHY203	Mechanics	3
CSC203	Programming	3	ELEC223	Digital Fundamentals	3
	UR1	3		UR2	3
CHM221	Organic Chemistry I	3	CHM303	General Biochemistry	3
CHM221L	Organic Chemistry I Lab	1	CHM303L	General Biochemistry Laboratory	1
	Total	16		Total	16
Third Semester			Fourth Semester		
Course#	Course Name	CR	Course#	Course Name	CR
ELEC223L	Digital Lab	1	ELEC221L	Circuits Lab	1
MATH352	Probability & Statistics	3	BME274	Modeling and Simulation	3
MATH222	Discrete Math	3	PHY211	Material Sciences	3
ELEC221	Electric Circuits	3	MATH342	Differential Equations	3
PHY223	Thermodynamics	3	ELEC290	Circuits 2	3
	UR3	3		UR4	3
	Total	16		Total	16
Fifth Semester			Sixth Semester		
Course#	Course Name	CR	Course#	Course Name	CR
MATH203	Calculus IV	3	BME371	Data Evaluation Principles	3
ELEC330	Electronics I	3	CNE311	Fields & Waves	3
BME332	BME Transport	3	MATH442	Numerical Methods	3
CNE340	Signals and Systems	3	ENG499	Internship	3
	UR5	3	ELEC330L	Electronics Lab	1
PHY200L	Physics Lab	1			
	Total	16		Total	13
Seventh Semester			Eighth Semester		
Course#	Course Name	CR	Course#	Course Name	CR
BME401L	BME Lab I	1	BME402L	BME Lab II	1
BME370		3	BME470		3
	BME Major Elective	3		BME Major Elective	3
ETH303	Engineering Ethics	3		Humanities Elective	3
	Free Elective	3		Free Elective	3
CSC243	Data Structures	3	IT381	Object Oriented Programming	3
	Total	16		Total	16
Ninth Semester			Tenth Semester		
Course#	Course Name	CR	Course#	Course Name	CR
FYP595	Final Year Project	3	FYP596	Final Year Project	3
BME403L	BME Lab III	1		Humanities Elective	3
	BME Major Elective	3		Free Elective	3
	Humanities Elective	3	BME458		3
	Free Elective	3			
	Total	13		Total	12