



**LEBANESE
INTERNATIONAL
UNIVERSITY**

Major Title: Electronic Engineering / Emphasis On Biomedical
Major Code: BENG
Level: underGraduate
Number Of Credits: 108
Date: 18-05-2017

Electronic Engineering / Emphasis On Biomedical (BENG)

Core Requirements

Code	Title	Credits	Prerequisites	Corequisites
CENG415	Communication Networks	3	CSCI250	
CHEM200	General Chemistry	3	ENGL101-CHEM160	
CSCI250	Introduction to Programming	3		ENGL101-CSCI250L
CSCI250L	Introduction to Programming Lab	1	ENGL101	CSCI250
IENG300	Engineering Project Management	3	ENGL201	
MATH210	Calculus II	3	MATH160	
MATH220	Calculus III	3	MATH210	
MATH225	Linear Algebra with Applications	3	MATH160	
MATH270	Ordinary Differential Equations	3	MATH210	MATH225
MATH310	Probability & Statistics for Scientists & Engineers	3	MATH210-ENGL201	
MATH375	Numerical Methods for Scientists & Engineers	3	ENGL051-MATH270-MATH225	
MENG225	Engineering Drawing & CAD	3		
MENG250	Mechanics I (Statics)	3	ENGL051	MATH210
PHYS220	Physics for Engineers	3	ENGL101-PHYS160	MATH210
Total		40		

Major Requirements

Code	Title	Credits	Prerequisites	Corequisites
CENG300	Fundamentals of Digital Logic Design	3	EENG250-ENGL051-ENGL101	
CENG352L	Digital Logic Circuits Lab	1	EENG301L-CENG300	
EENG250	Electric Circuits I	3	ENGL051	MATH210
EENG300	Electric Circuits II	3	EENG250	EENG301L
EENG301L	Electric Circuits Lab	1	EENG250	EENG300
EENG304	Biology for Biomedical Engineers	3		
EENG350	Electronic Circuits I	3	EENG250	EENG350L
EENG350L	Electronic Circuits I Lab	1	EENG301L	EENG350
EENG354	Physiology for Biomedical Engineers	3	EENG304	
EENG385	Signals and Systems	3	MATH225-EENG300	MATH270
EENG388	Electromagnetic Fields and Waves	3	PHYS220-MATH220-EENG300	
EENG400	Electronic Circuits II	3	EENG350	EENG400L
EENG400L	Electronic Circuits II Lab	1	EENG350	EENG400
EENG404	Biophysics and Bioelectricity	3	MENG250-PHYS220-EENG304-EENG354	
EENG414	Biocompatibility	3	CHEM200-EENG304-EENG354	
EENG424	Medical Instrumentation I	3		EENG404-EENG424L
EENG424L	Medical Instrumentation I Lab	1		EENG424
EENG474	Medical Imaging I	3	MATH375-EENG388-EENG424	
EENG484	Acquisition & Microcontrollers in Biomedical Engineering	3	EENG385-CSCI250L-CSCI250-CENG352L	EENG400
EENG494	Senior Project	3	EENG484-IENG300-EENG424-EENG400	
Total		50		

General Education Requirements

Code	Title	Credits	Prerequisites	Corequisites
ARAB200	Arabic Language and Literature	3		
CULT200	Introduction to Arab - Islamic Civilization	3		
ENGL201	Composition and Research Skills	3	ENGL151	
ENGL251	Communication Skills	3	ENGL201	
Total		12		

General Education Electives

Code	Title	Credits	Prerequisites	Corequisites
	General Education Electives	3		
	General Education Electives	3		
Total		6		

Major Elective Courses

Code	Title	Credits	Prerequisites	Corequisites
There are no Major Elective Courses				