LEBANESE INTERNATIONAL UNIVERSITY

Major Title: Bachelor of Science in Communication Engineering
Major Code: TENG
Level: underGraduate
Number Of Credits: 108
Date: 11-01-2024

Bachelor of Science in Communication Engineering (TENG)

First Year

Fall Semester

Code	Title	Credits	Prerequisites	Corequisites
PHYS220	Physics for Engineers	3	PHYS161 - ENGL101 - PHYS160	MATH210
MATH210	Calculus II	3	MATH161 - MATH160	
ENGG200	Introduction to Engineering	3	MATH160 - CHEM160	
ENGL201	Composition and Research Skills	3	ENGL151	
MATH225	Linear Algebra with Applications	3	MATH160 - ENGL051 - MATH161	
CULT200	Introduction to Arab - Islamic Civilization	3		
Total		18		

Spring Semester

Code	Title	Credits	Prerequisites	Corequisites
ENGL251	Communication Skills	3	ENGL201	
CSCI250	Introduction to Programming	3		ENGL101 - CSCI250L
CSCI250L	Introduction to Programming Lab	1		ENGL101 - CSCI250
CENG250	Digital Logic I	3		EENG250
MATH220	Calculus III	3	MATH210	
MATH270	Ordinary Differential Equations	3	MATH210	MATH225
EENG250	Electric Circuits I	3	PHYS161 - PHYS160 - MATH161 - MATH160 - ENGL051	ENGG200 - MATH210
Total		19		

Second Year

Fall Semester

Code	Title	Credits	Prerequisites	Corequisites
CENG325	Software Applications and Design	3		CSCI300
CSCI300	Intermediate Programming with Objects	3	CSCI250L - CSCI250	
MATH310	Probability & Statistics for Scientists & Engineers	3	MATH210 - ENGL201	
EENG300	Electric Circuits II	3	EENG250	EENG301L
EENG301L	Electric Circuits Lab	1	EENG250	EENG300
ENGG300	Engineering Economics	3	ENGL201 - MATH225	MATH220
CENG335	Digital Logic II	3	CSCI250 - CENG250	
Total		19		

Spring Semester

Code	Title	Credits	Prerequisites	Corequisites
CENG375	Introduction to Database Systems	3	CENG325 - CSCI300	
EENG350L	Electronic Circuits I Lab	1	EENG300 - EENG250 - EENG301L	EENG350
CENG380	Microprocessors and Microcontrollers	3	CENG250 - CENG335 - EENG250 - CSCI250	CENG352L
CENG352L	Digital Logic Circuits Lab	1	CENG250 - EENG301L	
EENG385	Signals and Systems	3	MATH225 - EENG300	MATH310 - MATH270
EENG350	Electronic Circuits I	3	ENGG200 - CENG250 - EENG300 - EENG250	EENG350L

ARAB200	Arabic Language and Literature	3		
Total		17		

Third Year

Fall Semester

Code	Title	Credits	Prerequisites	Corequisites
CENG430L	Linux Lab	1	CENG380 - CENG325	
CENG400L	Microcontroller Applications Lab	1	CENG380	
	Elective	3		
CENG420	Web Programming and Technologies	3	CENG325 - CSCI300 - CENG375	
CENG435	Mobile Application Development	3	CENG325 - CSCI300 - CENG375	
CENG415	Communication Networks	3	CENG250 - CENG325 - CSCI250 - CSCI300	
EENG447	Analog Communication Systems	3	MATH310 - EENG385	
CENG400	Computer Organization and Design	3	CENG335 - CENG250 - CENG380	
Total		20		

Spring Semester

Code	Title	Credits	Prerequisites	Corequisites
CENG455L	Communication Networks Lab	1	CENG415	
CENG450L	Scripting Languages Lab	1	CENG430L	
EENG467L	Analog Communication Systems Lab	1	EENG447	
	Elective	3		
EENG388	Electromagnetic Fields and Waves	3	MATH270 - PHYS220 - MATH220 - EENG300	
CENG495	Senior Project	3	CENG420 - EENG350 - EENG447 - CENG435 - CENG415 - CENG380 - CENG375	
ENGG450	Engineering Ethics and Professional Practice	3	ENGL251	CENG495 - ENGG300
Total		15		

Major Elective Courses

Code	Title	Credits	Prerequisites	Corequisites
CENG460	Operating Systems	3	CENG380 - CSCI300	
CENG480	Introduction to GIS	3	CENG415 - CENG375	