



Communication Engineering (TENG)

Major Electives

Code	Title	Credits	Prerequisites	Corequisites
	Elective	3		
Total		3		

Core Requirements

Code	Title	Credits	Prerequisites	Corequisites
CHEM100	Freshman Chemistry I	3	ELC103	
CSCI202	Computer Hardware	3	CSCI200	
CSCI250	Introduction to Programming	3	CSCI200	CSCI250L
CSCI250L	Introduction to Programming Lab	1		CSCI250
CSCI300	Intermediate Programming with Objects	3	CSCI250	
IENG300	Engineering Project Management	3	ENGL200	
MATH120	Calculus I	3	MATH110	
MATH170	Calculus II	3	MATH120	
MATH220	Calculus III	3	MATH170	
MATH225	Linear Algebra with Applications	3	MATH170	
MATH270	Ordinary Differential Equations	3	MATH220	
MATH310	Probability & Statistics for Scientists & Engineers	3	MATH170	
MATH360	Advanced Engineering Math	3	MATH225 - MATH270	
MENG225	Engineering Drawing & CAD	3	CSCI200	
MENG250	Mechanics I (Statics)	3	MATH170 - PHYS150	
PHYS100	College Physics I	3	ELC103	
PHYS150	College Physics II	3	PHYS100	PHYS150L
Total		49		

Major Requirements

Code	Title	Credits	Prerequisites	Corequisites
CENG300	Fundamentals of Digital Logic Design	3	CSCI200 - EENG250	CENG300L
CENG350	Digital Logic Systems	3	CENG300	
CENG352L	Digital Logic Circuits Lab	1		CENG350
CENG360	Applied Algorithms for Engineers	3	CSCI300	
CENG405	Microprocessor Architecture & Organization	3	CENG350	CENG405L
CENG405L	Microprocessor Architecture and Organization Lab	1	CENG300	CENG405
CENG410	Computer & Network Security	3	CENG360	
CENG415	Communication Networks	3	CENG360	CENG415L
CENG440	Introduction to Database	3		CENG360
CENG495	Senior Project	3	CENG450	
EENG250	Electric Circuits I	3	PHYS150	MATH170 - EENG250L
EENG250L	Electric Circuits I Lab.	1	PHYS150	EENG250
EENG300	Electric Circuits II	3	EENG250	EENG300L
EENG300L	Electric Circuits II Lab	1	EENG250	EENG300
EENG350	Electronic Circuits I	3	EENG250	EENG350L
EENG350L	Electronic Circuits I Lab	1	EENG250	EENG350
EENG385	Signals and Systems	3	EENG300 - MATH270	

EENG430	Electromagnetic Fields and Waves	3	MATH360 - PHYS150	
EENG450	RF Electronics	3	EENG350	
EENG457	Communication Systems I	3	EENG385	EENG457L
EENG457L	Communication Systems I Lab	1	EENG385	EENG457
EENG480	Electromagnetic Wave Propagation	3	EENG430	
EENG487	Digital Signal Processing	3	EENG385	EENG487L
Total		57		

General Education Requirements

Code	Title	Credits	Prerequisites	Corequisites
ARAB200	Arabic Language and Literature	3		
CSCI100E	Basic Computing Skills	3		
CSCI200	Introduction to Computers	3	CSCI100	
CULT200	Introduction to Arab - Islamic Civilization	3		
ENGL150	English Composition & Rhetoric	3		
ENGL200	Advanced English Composition & Rhetoric	3	ENGL150	
ENGL350	English Communication Skills	3	ENGL200	
HUMN210	Human Rights - Global Perspective	3		
MATH110	Pre-Calculus	3		
Total		27		

General Education Electives

Code	Title	Credits	Prerequisites	Corequisites
	Elective	3		
Total		3		

Major Elective Courses

Code	Title	Credits	Prerequisites	Corequisites
CSCI430	Introduction to Operating Systems	3	CSCI325	CENG405
EENG425	Fundamentals of Optoelectronics	3	EENG350	EENG425L
EENG455	Control Systems	3	EENG385	EENG455L