



**Computer Engineering (CENG)**

**First Year**

**Fall Semester**

Code	Title	Credits	Prerequisites	Corequisites
PHYS220	Physics for Engineers	3	PHYS161 - ENGL101 - PHYS160	MATH210
MATH210	Calculus II	3	MATH161 - MATH160	
MATH225	Linear Algebra with Applications	3	MATH161 - MATH160	
ENGL201	Composition and Research Skills	3	ENGL151	
	Elective	3		
MENG225	Engineering Drawing & CAD	3		
Total		18		

**Spring Semester**

Code	Title	Credits	Prerequisites	Corequisites
ENGL251	Communication Skills	3	ENGL201	
MENG250	Mechanics I (Statics)	3	ENGL051	MATH210
EENG250	Electric Circuits I	3	ENGL051	MATH210
CSCI250	Introduction to Programming	3		ENGL101 - CSCI250L
CSCI250L	Introduction to Programming Lab	1		ENGL101 - CSCI250
MATH220	Calculus III	3	MATH210	
MATH270	Ordinary Differential Equations	3	MATH210	MATH225
Total		19		

**Second Year**

**Fall Semester**

Code	Title	Credits	Prerequisites	Corequisites
ARAB200	Arabic Language and Literature	3		
EENG300	Electric Circuits II	3	EENG250	EENG301L
CSCI300	Intermediate Programming with Objects	3	CSCI250L - CSCI250	CENG310L
CENG310L	Software Applications and Design Lab	1		CSCI300
CENG300	Fundamentals of Digital Logic Design	3	EENG250 - ENGL101	
EENG301L	Electric Circuits Lab	1	EENG250	EENG300
EENG300	Engineering Project Management	3	ENGL201	
MATH310	Probability & Statistics for Scientists & Engineers	3	MATH210 - ENGL201	
Total		20		

**Spring Semester**

Code	Title	Credits	Prerequisites	Corequisites
CENG355	Advanced Digital Logic Design	3	EENG250 - CSCI250 - CENG300	CENG352L
EENG385	Signals and Systems	3	MATH225 - EENG300	MATH270
CENG380	Microprocessors and Microcontrollers	3	EENG250 - CSCI250 - CENG300	CENG352L
CENG375	Introduction to Database Systems	3	CENG310L - CSCI300	
EENG350	Electronic Circuits I	3	EENG250	EENG350L
EENG350L	Electronic Circuits I Lab	1	EENG301L	EENG350
CENG352L	Digital Logic Circuits Lab	1	EENG301L - CENG300	
Total		17		

### Third Year

#### Fall Semester

Code	Title	Credits	Prerequisites	Corequisites
	Elective	3		
CENG435	Mobile Application Development	3	CSCI300 - CENG375	
CENG415	Communication Networks	3	CSCI250 - CSCI300	
CENG400	Computer Organization and Design	3	CENG355 - CENG380	
CENG400L	Microcontroller Applications Lab	1	CENG380	
CENG420	Web Programming and Technologies	3	CSCI300 - CENG375	
EENG447	Analog Communication Systems	3	MATH310 - EENG385	EENG467L
EENG467L	Analog Communication Systems Lab	1		EENG447
Total		20		

#### Spring Semester

Code	Title	Credits	Prerequisites	Corequisites
CENG460	Operating Systems	3	CENG380 - CSCI300	
CENG455L	Communication Networks Lab	1	CENG415	
CULT200	Introduction to Arab - Islamic Civilization	3		
CENG460L	Linux Lab	1	CENG415 - CSCI300	
CENG495	Senior Project	3	IENG300 - EENG447 - CENG435 - CENG415 - CENG380 - CENG375	
CENG470	Data Structures and Analysis of Algorithms	3	CENG310L - CSCI300	
Total		14		

#### Major Elective Courses

Code	Title	Credits	Prerequisites	Corequisites
There are no Major Elective Courses				