

# CENG

## First Year-Sophomore (37 Credits)

### Fall Semester (18 Credits-Hours)

Course Code	Course Title	Crs.	Prerequisites	Corequisites
	Elective	3		
ENGL201	Composition and Research Skills	3	ENGL151	
MATH210	Calculus II	3	MATH160	
MATH225	Linear Algebra with Applications	3	MATH160	
MENG225	Engineering Drawing & CAD	3		
PHYS220	Physics for Engineers	3	PHYS160, ENGL101	MATH210

### Spring Semester (19 Credit-Hours)

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

## Second Year-Junior (37 Credits)

### Fall Semester (20 Credit-Hours)

Course Code	Course Title	Crs.	Prerequisites	Corequisites
CENG300	Fundamentals of Digital Logic Design	3	EENG250,ENGL051,ENGL101	
EENG300	Electric Circuits II	3	EENG250	EENG301L
EENG301L	Electric Circuits Lab	1	EENG250	EENG300
MATH310	Probability & Statistics for Scientists & Engineers	3	MATH210,ENGL201	
ARAB200	Arabic Language & Literature	3		
CSCI300	Intermediate Programming with Objects	3	CSCI250L,ENGL101,CSCI250	
IENG300	Engineering Project Management	3	ENGL201	
CENG310L	Software Applications and Design Lab	1		

### Spring Semester (17 Credit-Hours)

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

## Third Year-Senior (34 Credits)

### Fall Semester (19 Credit-Hours)

Course Code	Course Title	Crs.	Prerequisites	Corequisites
CENG435	Mobile Application Development	3	CSCI300, CENG375	
CENG415	Communication Networks	3	CSCI250,CSCI300	
CENG420	Web Programming and Technologies	3	CSCI300,CENG375	
	Elective	3		
CENG400	Computer Organization and Design	3	CENG355,CENG380	
CENG400L	Microcontroller Applications Lab	1	ENG380	
EENG447	Analog Communication Systems	3	MATH310,EENG385	EENG467L

### Spring Semester (15 Credit-Hours)

Course Code	Course Title	Crs.	Prerequisites	Corequisites
CULT200	Introduction to Arabic & Islamic Civilization	3		
CENG460	Operating Systems	3	CENG400	
EENG470	Data Structures and Analysis of Algorithms	3	CENG310L,CSCI300	
EENG467L	Analog Communication Systems Lab	1		EENG447
CENG495	Senior Project	3	IENG300,EENG447,CENG435,C	
CENG460L	Linux Lab	1	CENG415,CSCI300	
CENG455L	Communication Networks Lab	1	CENG415	

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### Fall Semester (18 Credits-Hours)

Course Code	Course Title	Crs.	Prerequisites	Corequisites
	Elective	3		
ENGL201	Composition and Research Skills	3	ENGL151	
MATH210	Calculus II	3	MATH160	
MATH225	Linear Algebra with Applications	3	MATH160	
MENG225	Engineering Drawing & CAD	3		
PHYS220	Physics for Engineers	3	PHYS160, ENGL101	MATH210

### Spring Semester (19 Credit-Hours)

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

## Second Year-Junior (37 Credits)

### Fall Semester (20 Credit-Hours)

Course Code	Course Title	Crs.	Prerequisites	Corequisites
CENG300	Fundamentals of Digital Logic Design	3	EENG250,ENGL051,ENGL101	
EENG300	Electric Circuits II	3	EENG250	EENG301L
EENG301L	Electric Circuits Lab	1	EENG250	EENG300
MATH310	Probability & Statistics for Scientists & Engineers	3	MATH210,ENGL201	
ARAB200	Arabic Language & Literature	3		
CSCI300	Intermediate Programming with Objects	3	CSCI250L,ENGL101,CSCI250	
IENG300	Engineering Project Management	3	ENGL201	
CENG310L	Software Applications and Design Lab	1		

### Spring Semester (17 Credit-Hours)

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

## Third Year-Senior (34 Credits)

### Fall Semester (19 Credit-Hours)

Course Code	Course Title	Crs.	Prerequisites	Corequisites
CENG435	Mobile Application Development	3	CSCI300, CENG375	
CENG415	Communication Networks	3	CSCI250,CSCI300	
CENG420	Web Programming and Technologies	3	CSCI300,CENG375	
	Elective	3		
CENG400	Computer Organization and Design	3	CENG355,CENG380	
CENG400L	Microcontroller Applications Lab	1	ENG380	
EENG447	Analog Communication Systems	3	MATH310,EENG385	EENG467L

### Spring Semester (15 Credit-Hours)

Course Code	Course Title	Crs.	Prerequisites	Corequisites
CULT200	Introduction to Arabic & Islamic Civilization	3		
	Elective	3		
EENG388	Electromagnetic Fields and Waves	3	PHYS220,MATH220,EENG300	
EENG467L	Analog Communication Systems Lab	1		EENG447
CENG495	Senior Project	3	IENG300,EENG447,CENG435,C	
CENG460L	Linux Lab	1	CENG415,CSCI300	
CENG455L	Communication Networks Lab	1	CENG415	

### Major Elective Courses

Course Code	Course Title	Crs.	Prerequisites	Corequisites
CENG460	Operating Systems	3	CENG400	
CENG480	Introduction to GIS	3	CENG415CENG375	