



Computer Engineering (CENG)

Major Electives

Code	Title	Credits	Prerequisites	Corequisites
	Elective	3		
Total		3		

Core Requirements

Code	Title	Credits	Prerequisites	Corequisites
CHEM100	Freshman Chemistry I	3	ELC103	
CHEM200	General Chemistry	3		
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	MATH270 - MATH225	
MATH375	Numerical Methods for Scientists & Engineers	3	MATH270 - MATH225 - CSCI250	
MENG225	Engineering Drawing & CAD	3	CSCI200	
MENG250	Mechanics I (Statics)	3	PHYS150 - MATH170	
PHYS100	College Physics I	3	ELC103	
PHYS150	College Physics II	3	PHYS100	
Total		52		

Major Requirements

Code	Title	Credits	Prerequisites	Corequisites
CENG300	Fundamentals of Digital Logic Design	3	CSCI200	EENG250
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	
CENG430	Abstraction Programming and Algorithms	3	CSCI300	
CENG440	Introduction to Database	3		CENG360
CENG450	Computer System Architecture	3	CENG405	
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	
EENG385	Signals and Systems	3	MATH270 - EENG300	
EENG457	Communication Systems I	3	EENG385	EENG457L
EENG457L	Communication Systems I Lab	1	EENG385	EENG457
EENG487	Digital Signal Processing	3	EENG385	EENG487L
EENG487L	Digital Signal Processing Lab	1	EENG385	EENG487
Total		54		

General Education Requirements

Code	Title	Credits	Prerequisites	Corequisites
ARAB200	Arabic Language and Literature	3		
CSCI100E	Basic Computing Skills	3		
CSCI200	Introduction to Computers	3	CSCI100E	
CULT200	Introduction to Arab - Islamic Civilization	3		
ENGL150	English Composition & Rhetoric	3	ELC103	
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		