

# Study Plan for the BS in Communication & Networks Engineering

First Semester			Second Semester		
Course#	Course Name	CR	Course#	Course Name	CR
ELEC221	Electric Circuits I	3	ELEC223	Digital Fundamentals	3
MATH222	Discrete Math	3	MATH332	Linear Algebra	3
MATH202	Calculus & Analytic Geometry	3	MATH342	Ordinary Differential Equations	3
PHY205	General Physics II: Electromagnetics and Optics	3	PHY203	General Physics I: Mechanics	3
CSC203	Programming Structures & abstractions	3	CSC243	Data Structures	3
	University Requirement	3		University Requirement	3
			ELEC221L	Electric Circuits I Lab	1
		18		Total	19
Third Semester			Fourth Semester		
MATH 203	Calculus IV	3	MATH442	Numerical Methods	3
MATH352	Probability & Statistics	3	PHY211	Material Science	3
CNE311	Electromagnetic Fields & Waves	3	ELEC330	Electronics I	3
PHY223	Thermodynamics and Modern Physics	3	CNE420	Analog Communication	3
CNE340	Signals and Systems	3		University Requirement	3
	Free Elective	3		Major Elective	3
ELEC223L	Digital Fundamentals Lab	1	ELEC330L	Electronics I Laboratory	1
	Total	19		Total	19
Fifth Semester			Sixth Semester		
Course#	Course Name	CR	Course#	Course Name	CR
CNE 470	Wireless Communication Systems	3	ENG499	Special Project/internship	3
CNE 460	Optical Communication Systems	3		University Requirement	3
CNE 443	Antennas	3		Free Elective	3
	CNE Major Elective	3		CNE Major Electives	3
	University Requirement	3	PHY200L	Physics Lab	1
CNE 420 L	Communication Systems Lab	2			
	Total	17		Total	13