

**Bachelor of Science in Electrical Engineering
with emphasis in Telecommunications
Effective Date: Fall 2007**

FRESHMAN YEAR									
CHEM	105	General Chemistry I	_____	3	CSCI	259	Programming in C++	_____	3
CHEM	115	General Chemistry Lab I	_____	1	LIBA	102	First Year Seminar	_____	3
CSCI	251	Prog. for Eng. and Sci.	_____	3	MATH	262	Calculus II	_____	3
EL E	100	Intro. to Electrical Eng.	_____	1	PHYS	211	Phys. for Sci. & Eng. I	_____	3
ENGL	101	English Composition	_____	3	PHYS	221	Phys. for Sci. & Eng. Lab I	_____	1
MATH	261	Calculus I	_____	3	S-H-F	xxx	_____	_____	3
S-H-F	xxx	_____	_____	3					
Semester Total:				17	Semester Total:				16
SOPHOMORE YEAR									
EL E	335	Princip. of Digital Systems	_____	3	CSCI	361	Intro. to Comp. Networks	_____	3
EL E	336	Digital Systems Lab I	_____	1	ECON	310	Engineering Economy	_____	3
ENGR	309	Introductory Mechanics	_____	3	ENGR	360	Electric Circuit Theory	_____	4
MATH	263	Calculus III	_____	3	MATH	264	Calculus IV	_____	3
PHYS	212	Phys. for Sci. & Eng. II	_____	3	MATH	353	Differential Equations	_____	3
PHYS	222	Phys. for Sci. & Eng. Lab II	_____	1					
S-H-F	xxx	_____	_____	3					
Semester Total:				17	Semester Total:				16
JUNIOR YEAR									
EL E	331 *	Linear Systems	_____	3	EL E	341	Theory of Fields	_____	3
EL E	351	Models and Circuits I	_____	3	EL E	352	Models and Circuits II	_____	3
EL E	385	Advanced Digital Systems	_____	3	EL E	353	Electronics Lab	_____	1
ENGR	361	Electric Circuit Laboratory	_____	1	EL E	367	CAD in Electrical Eng.	_____	2
ENGR	410	Engineering Analysis II	_____	4	EL E	386	Adv. Digital Sys. Lab	_____	1
S-H-F	xxx	_____	_____	3	EL E	391	Random Signals	_____	3
					TC	415	Telecommunications Lab	_____	1
					TC	432	Local Area Networks	_____	3
Semester Total:				17	Semester Total:				17
SENIOR YEAR									
EL E	431	Theory of Control Systems	_____	3	EL E	462	Senior Design in EE II	_____	2
EL E	441	Electromagnetic Theory I	_____	3	ENGR	321	Thermodynamics	_____	3
EL E	447	Mod., Noise, & Comm.	_____	3	S-H-F	xxx	_____	_____	3
EL E	461	Senior Design in EE I	_____	1	TC	535	Digital Communications	_____	3
EL E	533	Electron. Prop. of Materials	_____	3	Tech-E	xxx	_____	_____	4
Semester Total:				13	Semester Total:				15

Total Program Semester Hours: 128

* ENGR 330 can be used as a substitute course, ONLY if EL E 331 is not being taught

S-H-F: Social Science, Humanities, or Fine Arts Electives; Tech-E: Technical Electives