

Bachelor of Science in Electrical Engineering Biomedical Engineering Emphasis

Effective D Fall 2013

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

FRESHMAN YEAR					
CHEM 105	General Chemistry I _____	3	CSCI 259	Programming in C++ _____	3
CHEM 115	General Chemistry Lab I _____	1	EL E 235	Princip. of Digital Systems _____	3
CSCI 251	Prog. for Eng. and Sci. _____	3	EL E 236	Digital Systems Lab I _____	1
EL E 100	Intro. to Electrical Eng. _____	1	WRIT 102	First Year Writing II _____	3
WRIT 101	First Year Writing I _____	3	MATH 262	Calculus II _____	3
MATH 261	Calculus I _____	3	PHYS 211	Phys. for Sci. & Eng. I _____	3
S-H-F xxx	_____	3	PHYS 221	Phys. for Sci. & Eng. Lab I _____	1
Semester Total:		17	Semester Total:		17
SOPHOMORE YEAR					
EL E 385	Advanced Digital Systems _____	3	ECON 310	Engineering Economy _____	3
MATH 263	Calculus III _____	3	EL E 386	Adv. Digital Sys. Lab _____	1
PHYS 212	Phys. for Sci. & Eng. II _____	3	ENGR 361	Electric Circuit Laboratory _____	1
PHYS 222	Phys. for Sci. & Eng. Lab II _____	1	MATH 264	Calculus IV _____	3
ENGR 360	Electric Circuit Theory _____	3	MATH 353	Differential Equations _____	3
S-H-F xxx	_____	3	ENGR 310	Engineering Analysis I _____	3
			S-H-F xxx	_____	3
Semester Total:		16	Semester Total:		17
JUNIOR YEAR					
EL E 331	Linear Systems _____	3	EL E 314	Biomedical Measurements _____	1
EL E 351	Electronics Circuits I _____	3	EL E 352	Electronics Circuits II _____	3
EL E 485	Micropr. Systems Eng. _____	2	EL E 353	Electronics Lab _____	1
EL E 486	Micropr. Systems Eng. Lab _____	1	EL E 367	CAD in Electrical Eng. _____	3
EL E 313	Physiology for Biomedical E _____	3	EL E 413	Biomedical Signal Proc. _____	3
ENGR 410	Engineering Analysis II _____	4	EL E 431	Theory of Control Systems _____	3
			EL E 414	Biomedical Electronics _____	1
Semester Total:		16	Semester Total:		15
SENIOR YEAR					
EL E xxx	Tech-E_ _____	3	EL E 462	Senior Design in EE II _____	2
EL E xxx	Tech-E _____	3	EL E 341	Theory of Fields _____	3
EL E 447	Mod., Noise, & Comm. _____	3	S-H-F xxx	_____	3
EL E 461	Senior Design in EE I _____	1	ENGR 321	Thermodynamics _____	3
S-H-F xxx	_____	3	EL E 391	Random Signals _____	3
ENGR 309	Statics _____	3			
Semester Total:		16	Semester Total:		14

Total Program Semester Hours: 128

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