Bachelor of Science Electrical and Computer Engineering Computer Engineering Option 2012-2013

FRESHMAN YEAR

First Semester			Second Semester				
Course	Title	U	Jnits	Course	Title	L	Inits
ENGR 102	Introduction to Engineering		3	ECE 175	Computer Programming for Eng. Apps.		3
MATH 125	Calculus I		3	MATH 129	Calculus II		3
CHEM 151	Fundamentals of Chemistry		4	PHYS 141	Introductory Mechanics (w/Lab)		4
ENGL 101	First-year Composition		3	ENGL 102	First-year Composition		3
Tier 1 INDV	Individuals and Societies		3	Tier 1 TRAD	Traditions & Cultures		3
		TOTAL	16		ТОТ	AL	16

SOPHOMORE YEAR

First Semester			Second Semester			
Course	Title	Units	Course	Title	Units	
ECE 274a	Digital Logic (w/Lab)	4	ECE 220	Basic Circuits (w/Lab)	5	
MATH 223	Vector Calculus	4	MATH 254	Differential Equations	3	
PHYS 241	Intro. to Electricity & Magnetism (w/Lab)	4	PHYS 143	Intro. to Optics & Thermodynamics	2	
ECE 275	Computer Programming for Eng. Apps. II	3	Math 243	Discrete Mathematics	3	
			Tier 2 INDV	Individuals and Societies	3	
	TOTAL	. 15		TOTAL	L 16	

JUNIOR YEAR

First Semester			Second Semester			
Course	Title	Units	Course	Title	l	Units
ECE 320a	Circuit Theory	3	ECE 330	Computational Techniques		4
ECE 369a	Fund. of Computer Architecture	4	ECE 340	Engineering Systems Analysis		3
ECE 373	Object Oriented Software Design	3	ECE 351c	Electronic Circuits		4
ECE 310	Appl. of Engineering Mathematics	4	ECE 372a	Microprocessor Organization (w/Lab)		4
Tier 1 TRAD	Traditions & Cultures	3	Tier 1 INDV	Individuals and Societies		3
	TOTAL	17			TOTAL	18

SENIOR YEAR

First Semester				Second Seme	ester		
Course	Title		Units	Course	Title	U	Jnits
ENGR 498a	Cross-disciplinary Design		3	ENGR 498b	Cross-disciplinary Design		3
ECE 475	Algorithms, Automata & Operating Systems		3	Technical Ele		9	
Technical Electives			9	Tier 2	Arts/Humanities		3
		TOTAL	15			TOTAL	15

TOTAL DEGREE UNITS 128

Revised: 5/25/2012