ELECTRICAL ENGINEERING: COMPUTER



Department of Electrical and Computer Engineering

Sample Four-Year Plan						
First Year						
1st Semester		sh	2nd Semester		sh	
ALL	RHET:1030 Rhetoric	4	ALL	General Education Course	3	
F/S	MATH:1550 Math I: Single Variable Calculus (P: ALEKS score ≥ 75 or MPT Level 3 score ≥ 9)	4	F/S	MATH 1560 Math II: Multivariable Calculus (P: MATH:1550)	4	
ALL	CHEM:1110 Principles of Chemistry I (P: ALEKS score ≥ 55 or MPT Level 3 score ≥ 9)	4	ALL	MATH:2550 Math III: Matrix Algebra (P: MATH:1550)	2	
F	ENGR:1100 Intro to Engineering Problem Solving	3	ALL	PHYS:1611 Introductory Physics I / Lab (C: MATH:1550)	4	
			F/S	ENGR:1300 Intro to Engineering Computing (C: MATH:1550)	3	
		15		· · · · · · · · · · · · · · · · · · ·	16	

	Second Year						
3rd S	Semester	sh 4th Semester		sh			
ALL	General Education Course	3	F/S MATH:3550 Engineering Math V: Vector Ca (P: MATH:1560 & MATH:2550; C: MATH:2560)	alculus 3			
ALL	MATH:2560 Math IV: Differential Equations (P: MATH:1560 & MATH:2550)	3	ALL CS:2210 Discrete Structures	3			
F/S	PHYS:1612 Introductory Physics II (P: PHYS:1611; C: MATH:1560)	4	F/S CS:2230 Computer Science II, Data Structur (P: ENGR:2730 minimum C- or CS:1210 minimum C-				
F/S	ENGR:2120 Electrical Circuits (C: MATH:2560)	3	F/S ECE:2400 Linear Systems I (P: ENGR:2120 & MATH:2560)	3			
F/S	ENGR:2730 Computers in Engineering (P: ENGR:1300)	3	F/S ECE:2410 Principles of Electronic Instrumer (P: PHYS:1612, ENGR:2120, & MATH:2560)	tation 4			
		16	-	17			

	Third Year					
5th Semester		sh	6th S	Semester	sh	
F/S	STAT:2020 Probabilty & Statistics For Engr & Phys Sci (P: MATH:1560)	3	ALL	General Education Course	3	
ALL	CS:3330 Algorithms (<i>P: CS:2230 ≥ C-, CS:2210 ≥ C-, & MATH:1550</i>)	3	S	ECE:3350 Computer Architecture and Organization (P: ECE:3320 & ENGR:2730)	3	
F	ECE:3320 Intro to Digital Design (Sophomore Status)	3	F/S	ECE:3360 Embedded Systems (P: ENGR:2730 & ECE:3320; C: ECE:2410)	3	
F/S	ECE:3330 Intro to Software Design (P: ENGR:2730)	3	ALL	Elective: Focus Area - ECE	3	
F	ECE:3700 Electomagnetic Theory (P:MATH:3550 & PHYS:1612)	3	ALL	Elective: Focus Area	3	
F	ECE:3000 Professional Seminar: Electrical Engineering (Junior Status)	1	ALL	Elective: Focus Area -Technical	3	
		16			18	

Fourth Year						
7th Semester		sh	8th S	8th Semester		
ALL	General Education Course	3	ALL	General Education Course	3	
F/S	ECE:4880 Principles of ECE Design	3	F/S	ECE:4890 ECE Design	3	
	(P: Senior Status; ECE:2410, & ENGR:2730)			(P: ECE:4880 and 3 of: ECE:3330, ECE:3350, ECE:3360, ECE:3400, ECE:3410, ECE:3500, ECE:3600, CS:3330)		
ALL	Elective: Focus Area - 5000 level ECE	3	ALL	Elective: Focus Area - 5000 level ECE	3	
ALL	Elective: Focus Area -Technical	3	ALL	Elective: Focus Area	3	
ALL	Elective: Focus Area - Breadth	3	ALL	Elective: Focus Area - Depth	3	
		15			15	