COMPUTER ENGINEERING (B.S.)

Curriculum Map

Course	Title	Hours
Freshman		
Fall		
CSC 118	COMPUTER SCIENCE I	3
ECE 101	Introduction to Electrical and Computer Engineering	2
ENG 104 or ENG 103	COMPOSITION I or English Composition I with Co-requisite Support	3
or ENG 111	or COMPOSITION & LITERATURE FOR L	
MATH 241	CALCULUS I WITH LABORATORY	3
UNIV 100	UNIVERSITY SUCCESS	2
Humanities & Fine Arts Op	otion	3
	Hours	16
Spring		
ECE 212 & ECEL 212	DIGITAL LOGIC and DIGITAL LOGIC LABORATORY	4
ENG 105	COMPOSITION II	3
or ENG 112	or COMPOSITION	
MATH 242	CALCULUS II WITH LABORATORY	3
PHY 211	General Physics I	4
& PHYL 211	and GENERAL PHYSICS LAB I	
Pathway Option		3
	Hours	17
Sophomore		
Fall CSC 119	COMPLITED COLEMON II	0
ECE 220	COMPUTER SCIENCE II	3
& ECEL 220	CIRCUIT THEORY and CIRCUITS LABORATORY	4
MATH 243	CALCULUS III WITH LABORATORY	3
PHY 212	General Physics II	4
& PHYL 212	and GENERAL PHYSICS LAB II	
Pathway Option		3
	Hours	17
Spring		
ECE 312	COMPUTER ORGANIZATION & DESIGN	3
ECE 330	ELECTRONICS	4
& ECEL 330	and ELECTRONICS LABORATORY	0
ECE 252 MATH 244	ENGINEERING ANALYSIS	3
MATH 244 UNIV 200	CALCULUS IV WITH LABORATORY CIVIC ENGAGEMENT	3 1
Pathway Option	CIVIC ENGAGEMENT	3
	Hours	17
Junior	TOUTO .	17
Fall		
CIV 222	ENGINEERING MECHANICS I	3
CSC 225	DISCRETE STRUCTURES	3
ECE 315	SYNTHESIS WITH HARDWARE DL	3
ECE 360	EMBEDDED MICROPROCESSOR SYSTEM	4
& ECEL 360	and MICROPROCESSOR LABORATORY	
MATH 368	DIFFERENTIAL EQUATIONS	3
	Hours	16
Spring		
CIV 355	ENGINEERING ECONOMY	3
CSC 228	DATA STRUCTURES & ALGORITHMS	3
ECE 351	SIGNALS AND SYSTEMS	3
ECE 412	COMPUTER ARCHITECTURE	3

	Total Hours	126
	Hours	12
Social & Behavioral Science Option		3
Technical Elective III		3
Technical Elective II		3
ECE 491	SENIOR DESIGN PROJECTS II	3
Spring	Hours	16
Humanities & Fine Arts Option		3
Technical Elective I		3
ECE 490	SENIOR DESIGN PROJECTS I	3
CSC 325	OPERATING SYSTEMS	3
CHEM 141 & CHML 141	GENERAL CHEMISTRY I and GENERAL CHEMISTRY LAB	4
Fall		
Senior		
	Hours	15
MATH 307	PROBLTY & STATISTICS/ENGINEERG	3

Notes:

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS; however, the student must take 2 hours of general electives to replace the UNIV course.
- Students are required to take the Mathematics Placement Test to determine if they need to take any math courses before taking MATH 241 CALCULUS I WITH LABORATORY (C).
- Online Graduation Clearance (to be completed during the graduating semester only).

Code	Title	Hours			
Technical Electives					
Students must choose nine (9) hours of technical electives from the following list of courses:					
ECE 345	ELECTROMAGNETIC FIELDS	3			
ECE 430	DIGITAL VLSI DESIGN	3			
ECE 431	Digital System Testing and Design for Testability	3			
ECE 440	COMMUNICATION SYSTEMS	3			
ECE 451	DIGITAL SIGNAL PROCESSING	3			
ECE 492	SPCL STDS N ELEC & COMPU ENGIN	3			
ECE 493	SPCL TPCS N ELECTRL & COMPU EN	3			
Other courses require Chair's approval					
Total Hours		21			