

DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING

COMPUTER ENGINEERING

WALTERS STATE COMMUNITY COLLEGE

Degree: Associate of Science-- Emphasis -- Pre-Engineering

Freshman Year ³		Sophomore Year			
ENGL 1010, 1020	Composition I, II	6	ENGL 2110 or 2120 American Literature I or II <u>OR</u>		
MATH 1910, 1920	Calculus I, II	8	ENGL 2410 or 2420		
CHEM 1110, 1111	General Chemistry I w/lab	4	Western World Lit. I or II	3	
Approved Humanities/Fine Arts Elective		3	PHYS 2110, 2111, 2120, 2121		
Approved Social/Behavioral Science Elective		3	Physics I, II w/ Lab	8	
CISP 1010 ¹	Computer Science I	4	MATH 2010	Introduction to Linear Algebra	3
SPCH 1010	Fundamentals of Speech Communication	3	MATH 2110	Calculus III	4
			MATH 2120	Differential Equations	3
			HIST 2010, 2020 ²	American History I, II	6
			Approved Humanities/Fine Arts Elective		3
			Approved Social/Behavioral Science Elective		3
			Total		33
	Total	31	Total		

TENNESSEE TECHNOLOGICAL UNIVERSITY

Advisor: Dr. Charles Camal, Faculty Advisor - Brown Hall 217, Phone: (931) 372-3397
(Recommend advisor be contacted prior to transfer.)

Third Year		Fourth Year			
CSC 2100, 2101	Intro to Problem Solving and Computer Programming, Lab	4	ECE 3010	Signals & Systems	3
CSC 2110	Data Structures and Algorithms	3	ECE 3020	Discrete-Time Signals and Systems	3
CSC 2111	Data Structures and Algorithms Lab	1	ECE 3060	EE Lab II	1
ECE 2001	Computer Aided Engineering in ECE	1	ECE 3130	Microcomputer Systems	4
ECE 2010	Electric Circuits I	3	ECE 3300	Electronics I	3
ECE 2011	EE Lab I	1	ECE 3160	Digital Systems Laboratory	1
ECE 2020	Electric Circuits II	3	ECE 4910	Professional Issues in ECE	1
ECE 2110	Intro to Digital Systems	3	CSC 2400	Design of Algorithms	3
			CSC 2500	Unix Lab	1
			CSC 3030	Practical and Professional Issues in CSC	1
			CSC 4200	Computer Networks	3
	Total	19	MATH 3470	Introductory Probability and Statistics	3
			Total		27
Fifth Year					
ECE 4961, 4971	Capstone Design I, II	6			
ECE 4110	Digital System Design	3			
ECE 4120	Fundamentals of Computer Design ³	3			
ECE 4140	Embedded System Design	3			
EE Laboratory Elective ⁴		1			
EE elective ⁴		3			
CmpE Elective ⁴		3			
CSC 4100	Operating Systems	3			
CS Elective ⁴		3			
	Total	28			

¹Elective course is a requirement for the AS degree in pre-engineering at Walters State only. Prerequisite--CPSC 1230/31 or four years of high school math

²HIST 2010, 2020 American History I, II are requirements for the AS degree at Walters State only.

³Walters State students are required to fulfill computer competency requirements within the first thirty hours of college level work by either passing a computer competency exam or passing INFS 1010.

⁴Select from the ECE Department approved list.

Students must complete 60 hours at senior institution with 36 hours of upper-division credit at the 3000-4000 level.