Model BS in Computer Engineering & Systems Program

Revised April 2010 | Transfer Students | BS in Computer Engineering & Systems

Students following the program below will satisfy the requirements for the Computer Engineering & Systems major as well as the General Education requirement of the University.

FRESHMAN YEAR					SOPHOMORE YEAR				
Course No.	Title	Fall			Course No.	Title	Fall		
	Calculus I	5				Linear Algebra	3		
	English Composition I	5			TCSS 142	Programming I - Java	5		
	Social Science	5				Physics III (with Lab)	5		
						Introduction to Engineering	1		
			Winter					Winter	
	Calculus II		5		TCSS 143	Programming II - Java		5	
	Physics I (with lab)		5			Chemistry or Biology (with lab)		5	
	Humanities		5			Differential Equations		3	
				Spring					Spring
	Calculus III			5		Advanced Composition or Tech writing			5
	Physics II (with lab)			5		Humanities			5
	Economics (or any Social Science)			5	TCES 215	Electrical Circuits (with Lab)			5
	TOTAL UNITS	**15**	**15**	**15**		**TOTAL UNITS**	**14**	**13**	**15**

JUNIOR YEAR					SENIOR YEAR				
Course No.	Title	Fall			Course No.	Title	Fall		
TCSS 305	Programming Practicum	5			TCSS 422	Computer Operating Systems	5		
TCES 310	Linear Systems & Transforms	5			TCES 430	Microprocessor System Design (Lab)	5		
TCSS 321	Discrete Structures I	5			TCES 455	Devices & Controls	5		
			Winter					Winter	
TCSS 371	Machine Organization		5		TCSS 465	Embedded Real-Time Systems		5	
TCES 230	Intro to Logic Design (with Lab)		5		TCSS 360	Software Dev & Quality Assurance		5	
TCES 312	Electronics & Analog Systems		5		TCES 481	Senior Project I		4	
				Spring					Spring
TCSS 342	Data Structures			5	TCSS 325	Computers, Ethics, & Society			5
TCSS 372	Computer Architecture			5		CES/CSS Senior Elective			5
TCES 330	Digital Systems Design (with Lab)			5	TCES 482	Senior Project II			5
TQS 390	Probability & Statistics			4					
	TOTAL UNITS	**15**	**15**	**19**		**TOTAL UNITS**	**15**	**15**	**15**

UW Foreign language requirement must be met before graduation