

Computer Engineering Program 2009/2011 (128 Hours)

Offered:
F=Fall
S=Spring
M=Summer

Semester, Transfer or AP	Grade	Course Number	Cr Hrs	Course Title	Prerequisites, Corequisites and/or Prerequisites with Concurrency	Offered:
English - 6 hours						
		EH 101	3	Freshman Composition I	Placement	FSM
		EH 102	3	Freshman Composition II	EH 101	FSM
Mathematics - 18 hours						
		MA 171	4	Calculus A	MA 113 or MA 115 or Level III Placement	FSM
		MA 172	4	Calculus B	MA 171	FSM
		MA 201	4	Calculus C	MA 172	FSM
		MA 238	3	Applied Differential Equations	Prereq w/Con: MA 201	FSM
		MA 244	3	Introduction to Linear Algebra	MA 172	FSM
Chemistry - 4 hours						
		CH 121	3	General Chemistry I	CH 101 or Plcmt, MA 112, Prereq w/Con: MA 113 or 115, Coreq: CH 125	FSM
		CH 125	1	General Chemistry Lab I	Coreq: CH 121	FSM
Physics - 8 hours						
		PH 111	3	General Physics w/Calculus I	MA 171	FSM
		PH 114	1	General Physics Lab I	Prereq w/Con: PH 111	FSM
		PH 112	3	General Physics w/Calculus II	MA 172, PH 111	FSM
		PH 115	1	General Physics Lab II	Prereq w/Con: PH 112	FSM
History, Social & Behavioral Sciences - 9 hours						
		HY	3	History	Must take a six hour sequence in a discipline.	FSM
			3		See Humanities & Fine Arts List at	FSM
			3		http://www.uah.edu/engineering/StudentAffairs/forms.php .	FSM
Humanities & Fine Arts - 9 hours						
		EH	3	Literature	See History, Social & Behavioral Sciences list at http://www.uah.edu/engineering/StudentAffairs/forms.php .	FSM
			3	Fine Arts		FSM
		PHL 202	3	Introduction to Ethics		FSM
Engineering Core - 12 hours						
**		CPE 112	3	Intro to Computer Programming in Engineering	MA 113, MA 115 or Level III Placement, Coreq: CPE 112L	FSM
**		EE 202	3	Intro to Digital Logic Design	CPE 112, EE 100	FSM
		EE 213	3	Electrical Circuit Analysis I	PH 112, Prereq w/Con: MA 238 & (MA 244 or CHE 244 or MAE 285)	FSM
		EE 310	3	Solid State Fundamentals	PH 112, Prereq w/Con: MA 238	FS
Computer Science - 6 hours						
		CS 214	3	Intro to Discrete Structures	CPE 112, MA 171	FSM
		CS 317	3	Design & Analysis of Algorithms	CS 214, CPE 212, MA 244	FSM
Computer Engineering Option - 50 hours						
**		EE 100	3	Fund of Computer, Electrical & Optical Eng	Coreq: EE 100L	FSM
		EE 203	1	Digital Logic Design Lab	EE 202	FSM
		CPE 212	3	Fundamentals of Software Engineering	CPE 112	FS
		EE 214	1	Electronic Measurement Lab	EE 213	FSM
		EE 305	1	Electronic Devices & Design Lab	EE 214, Prereq w/Con: EE 315	FSM
		EE 315	3	Introduction to Electronic Analysis and Design	EE 213	FSM
		CPE 321	3	Computer Organization	EE 202	FSM
**		CPE 323	3	Intro to Embedded Computer Systems	CPE 212, EE 202, Coreq: CPE 323L	FS
		CPE 353	3	Software Design & Engineering	CPE 212, CS 317	F
		CPE 381	3	Fundamentals of Signals & Sys for Comp Engrs	EE 213, MA 238	FS
		EE 384	1	Digital Signal Processing Laboratory	CPE 381 or Prereq w/Con: EE 383	FSM
Select One		EE 420	3	Random Signals and Noise	CPE 381 or EE 382	FSM
		ISE 390	3	Probability & Engineering Statistics I	Prereq w/Con: MA 201	FSM
**		CPE 422	3	Advanced Logic Design	EE 202, EE 315, Coreq: CPE 422L	S
		CPE 431	3	Intro to Computer Architecture	CPE/EE 321, CPE 323, CPE 353	F
		CPE 434	3	Operating Systems	CPE/EE 321, CPE 353, Coreq: CPE 435	F
		CPE 435	1	Operating Systems Lab	Coreq: CPE 434	F
**		CPE 448	3	Introduction to Computer Networks	CPE/EE 321, Coreq: CPE 448L	FS
		CPE 453	3	Senior Software Studio	CPE 353	S
		CPE 495	3	Computer Engineering Design I	CPE 323, CPE 353, EE 315	F
		CPE 496	3	Computer Engineering Design II	CPE 495	S
Computer Engineering Electives - 6 hours						
		CPE	3		Jr. standing (300 level or above - Approved by CPE advisor)	
		CPE	3			

All prerequisite classes must be completed with a "C" or higher grade.
The Catalog is the final authority for all degree requirements.

ENGINEERING

APPROVALS:

Advisor	Date	Department Chair	Date
		Dean of Engineering	Date