

# Civil Engineering Program 2008/2009 (132 Hours)

Offered:  
F=Fall  
S=Spring  
M=Summer

Semester, Transfer or AP	Grade	Course Number	Cr Hrs	Course Title	Prerequisites, Corequisites and/or with Concurrency	Prerequisites	Offered:		
<b>English - 6 hours</b>									
		EH 101	3	Freshman Composition I	Placement		FSM		
		EH 102	3	Freshman Composition II	EH 101		FSM		
<b>Mathematics - 18 hours</b>									
		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		
<b>Biology - 4 hours</b>									
		BYS 119	4	Principles of Biology	None		FSM		
<b>Chemistry - 8 hours</b>									
		CH 121	3	General Chemistry I	CH 101 or Plcmt, MA 112, Prereq w/Con: MA 113 or 115, Co-req: CH 125		FSM		
		CH 125	1	General Chemistry Lab I	Prereq w/Con: CH 121		FSM		
		CH 123	3	General Chemistry II	CH 121, Co-req: CH 126		FSM		
		CH 126	1	General Chemistry Lab II	Prereq w/Con: CH 123		FSM		
<b>Physics - 8 hours</b>									
		PH 111	3	General Physics w/Calculus I	MA 171, Coreq: PH 114		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, Coreq: PH 115		FSM		
		PH 115	1	General Physics Lab II	Prereq w/Con: PH 112		FSM		
<b>History, Social &amp; Behavioral Sciences - 9 hours</b>									
		HY	3	History	Must take a six hour sequence in a discipline See Humanities & Fine Arts List at <a href="http://www.eng.uah.edu/StudentAffairs/forms.php">http://www.eng.uah.edu/StudentAffairs/forms.php</a> . Also available at the Engineering Student Affairs office, EB 157.		FSM		
			3				FSM		
			3				FSM		
<b>Humanities &amp; Fine Arts - 9 hours</b>									
		EH	3	Literature	See History, Social & Behavioral Sciences list at <a href="http://www.eng.uah.edu/StudentAffairs/forms.php">http://www.eng.uah.edu/StudentAffairs/forms.php</a> . Also available at the Engineering Student Affairs office, EB 157.		FSM		
			3	Fine Arts			FSM		
		PHL 202	3	Intro to Ethics			FSM		
<b>Engineering Core - 12 hours</b>									
		CE 271	3	Statics	PH 111, Prereq w/Con: MA 201		FSM		
		MAE 341	3	Thermodynamics I	MA 201, CH 121, CH 125, PH 112		FSM		
		MAE 310	3	Fluid Mechanics I	MA 238, MAE/CE 271 & MAE 285 or CPE 112 or CHE 197		FSM		
		ISE 321	3	Engineering Economy	MA 172, Sophomore Standing		FSM		
<b>** Class has required lab section</b>									
<b>Civil Engineering Option - 58 hours</b>									
		CE 101	1	Prelude to Civil Engineering	None		F		
**		CPE 112	3	Intro to Computer Programming in Engineering	MA 113, MA 115 or Level III Placement, Coreq: CPE 112L		FSM		
		CE 111	2	Civil Engineering Graphics	MA 112 or Level II Placement, Freshman CE Standing		FSM		
		CE 284	2	Surveying	Prereq w/Con: CE 101, CE 111, or Instr/Advsr Approval		F		
		CE 321	3	Transportation Engineering & Design	CE 284, MA 171		S		
		CE 272	3	Dynamics	CPE 112, CE/MAE 271		FSM		
**		CE 370	4	Mechanics of Materials	CPE 112, CE/MAE 271, Coreq: CE 370L		FSM		
		CE 381	3	Structural Analysis I	CE/MAE 272, CE/MAE 370		F		
		CE 372	3	Soil Mechanics	CE/MAE 370, Prereq w/Con: MAE 310		S		
		CE 373	1	Soil Mechanics Lab	Prereq w/Con: CE 372		S		
		CE 380	3	Civil Engineering Materials	CE/MAE 370		F		
		ISE 390	3	Probability & Engineering Statistics I	Prereq w/Con: MA 201		FSM		
		CE 422	3	Traffic Engineering Design	CE 321		S		
		CE 449	3	Intro to Environmental Engineering	CH 123, CH 126, MAE 341, Prereq w/Con: MAE 310		F		
		CE 441	3	Hydraulic Engineering Design	MAE 310		S		
		CE 483	3	Reinforced Concrete Design	CE 381		F		
		CE 485	3	Foundation Engineering	CE 372, CE 483		S		
		CE 498	1	Civil Engineering Design I	CE 321, CE 372, ISE 321		F		
**		CE 499	2	Civil Engineering Design II	CE 498 Coreq: CE 499L (FE Review)		S		
Select One Concentration	Structural			CE 481	3	Structural Analysis II	CE 381	S	
				CE 484	3	Steel Design	CE 381	F	
				CE 473	3	Earth Structures Engineering	CE 372, CE 373	F	
	Environmental				CE 487	3	Bridge Design	CE 483	S
					CE 456	3	Water Quality Control Processes	CE 449	S
					CE 457	3	Hydrology	MAE 310	F
	Transportation				CE 458	3	Environmental Engineering Design	Prereq w/Con: CE 449	S
					CE 384	3	Advanced Surveying	CE 284	S
					CE 411	3	Intro to Geographical Information Systems	Senior Standing or Instructor Approval	F
					CE 420	3	Urban Transportation Planning	CE 321	F
General				CE	3	CE 481 or CE 456 or CE 384		S	
				CE	3	CE 473 or CE 457 or CE 411		F	
				CE	3	CE 484 or CE 458 or CE 420	CE 484 & CE 420 offered in F; CE 458 offered in S		

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
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