

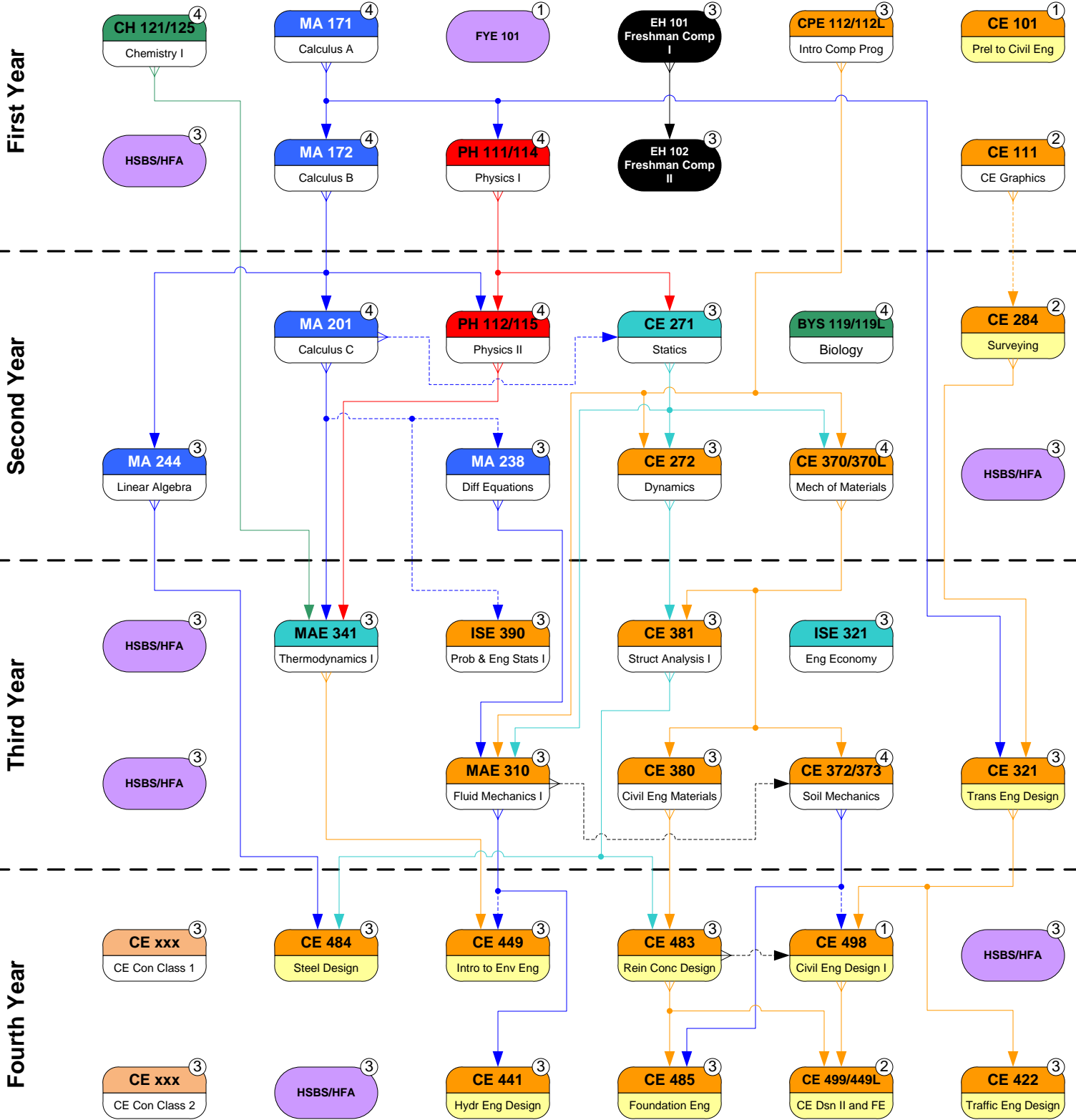
Student A#				Student Name (Last, First MI)			Offered: F=Fall S=Spring M=Summer		
Semester, Transfer or AP	Grade	Course Number	Cr Hrs	Course Title	Prerequisites, Corequisites and/or Prerequisites with Concurrency				
<b>English - 6 hours</b>									
		EH 101	3	Freshman Composition I	Placement		FSM		
		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>Chemistry - 4 hours</b>									
		CH 121	3	General Chemistry I	Plcmt or CH 101, MA 113 or 115, Prereq w/Con: MA 171, Coreq: CH 125		FSM		
		CH 125	1	General Chemistry Lab I	Coreq: CH 121		FSM		
<b>Physics - 8 hours</b>									
		PH 111	3	General Physics w/Calculus I	MA 171, Coreq: 114		FSM		
		PH 114	1	General Physics Lab I	Coreq: PH 111		FSM		
		PH 112	3	General Physics w/Calculus II	MA 172, PH 111, Coreq: 115		FSM		
		PH 115	1	General Physics Lab II	Coreq: PH 112		FSM		
<b>Biology - 4 hours</b>									
		BYS 119	4	Principles of Biology	None		FSM		
<b>History, Social &amp; Behavioral Sciences, Humanities &amp; Fine Arts - 18 hours</b>									
			3	History	HY 103, HY 104, HY 221, or HY 222		FSM		
			3	Literature	EH 207 or EH 208		FSM		
			3	Fine Art	ARH 100, ARH 101, ARH 103, CM 122, MU 100, or ARS 160		FSM		
			3	Social & Behavioral Science	For more information on HSBS/HFA Requirements: <a href="http://www.uah.edu/images/colleges/engineering/CUE%20Files/Forms/HSBS_HFA_Requirements.pdf">http://www.uah.edu/images/colleges/engineering/CUE%20Files/Forms/HSBS_HFA_Requirements.pdf</a>		FSM		
			3	Sequence Course			FSM		
			3	HSBS/HFA			FSM		
<b>Engineering Core - 12 hours</b>									
		CE 271	3	Statics	PH 111, Prereq w/Con: MA 201		FSM		
		ISE 321	3	Engineering Economy	Sophomore Standing		FSM		
		MAE 310	3	Fluid Mechanics I	MA 238, MAE/CE 271 & (MAE 111 or CPE 112 or CHE 198)		FSM		
		MAE 341	3	Thermodynamics I	MA 201, CH 121, CH 125, PH 112		FSM		
**	Class has required lab section			<b>Civil Engineering Option - 52 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		FS		
		CE 272	3	Dynamics	CPE 112, CE/MAE 271		FSM		
		CE 284	2	Surveying	Prereq w/Con: CE 111, or Instr/Advsr Approval		F		
		CE 321	3	Transportation Engineering & Design	CE 284, MA 171		S		
**		CE 370	4	Mechanics of Materials	CPE 112, CE/MAE 271, Coreq: CE 370L		FSM		
		CE 372	3	Soil Mechanics	CE/MAE 370, Prereq w/Con: MAE 310		FS		
		CE 373	1	Soil Mechanics Lab	Coreq: CE 372		FS		
**		CE 380	3	Civil Engineering Materials	CE/MAE 370, Coreq: CE 380L		FS		
		CE 381	3	Structural Analysis I	CE/MAE 272, CE/MAE 370		FM		
		ISE 390	3	Probability & Engineering Statistics I	Prereq w/Con: MA 201		FSM		
		CE 422	3	Traffic Engineering Design	CE 321		S		
		CE 441	3	Hydraulic Engineering Design	MAE 310		S		
		CE 449	3	Intro to Environmental Engineering	MAE 341, Prereq w/Con: MAE 310		F		
		CE 483	3	Reinforced Concrete Design	CE 380, CE 381		F		
		CE 484	3	Steel Design	CE 381, MA 244		F		
		CE 485	3	Foundation Engineering	CE 372, CE 483		S		
		CE 498	1	Civil Engineering Design I	CE 321, Prereq w/Con: CE 372 and CE 483, Senior Standing		F		
**		CE 499	2	Civil Engineering Design II	CE 483, CE 498 Coreq: CE 499L (FE Review)		S		
<b>Civil Engineering Electives - 6 hours</b>									
Select One Concentration	Struc			CE 481	3	Structural Analysis II	CE 381	S	
				CE 487	3	Bridge Design	CE 483	S	
				CE 456	3	Water Quality Control Processes	CE 449	S	
	Environ				CE 457	3	Hydrology	MAE 310	F
					CE 411	3	Intro to Geographical Information Systems	Senior Standing or Instructor Approval	F
					CE 420	3	Urban Transportation Planning	CE 321	F
	Gen				CE	3	Choose from CE 411, CE 412, CE 420, CE 456, CE 457, CE 458, CE 473, CE 481, CE 487		
					CE	3			

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

# Academic Flowchart



# Civil Engineering 2014/2015 (128 Hours)






**Legend**  
Updated: 8/28/14

<span style="color: blue;">■</span> Mathematics	<span style="color: cyan;">■</span> Engineering Core	<span style="background-color: black; color: white;">■</span> Freshman Comp	③ Credit Hours
<span style="color: red;">■</span> Physics	<span style="color: orange;">■</span> Civil Engineering Option	<span style="background-color: purple; color: white;">■</span> History, Social & Behavioral Science Humanity & Fine Art	→ Prerequisite
<span style="color: green;">■</span> Chemistry / Biology	<span style="color: brown;">■</span> Electives	<span style="background-color: yellow; color: black;">■</span> Offered only in semester listed	- - - - - Prereq w/concurrency

# Academic Pathways



# Civil Engineering 2014-2015 Plan

Curriculum Pathway	Research Pathway	Internship Pathway	Co-op Pathway	Required
				Recommended
<b>Milestone Year-1</b>				
<input type="checkbox"/> 32 hours completed including: MA 171, CH 121/125, CE 101, CPE 112, FYE 101, EH 101 MA 172, PH 111/114, CE 111, HSBS/HFA, EH 102		<input type="checkbox"/> Meet with Faculty to discuss pathway choices <input type="checkbox"/> Meet with Career Development <input type="checkbox"/> Attend Career Services Workshop on Resume <input type="checkbox"/> Outline Resume <input type="checkbox"/> Participate in Career Fair		
<b>Milestone Year-2</b>				
<input type="checkbox"/> 65 hours completed including: MA 201, PH 112/115, CE 284, CE 271, BYS 119 MA 238, MA 238, CE 272, CE 370, HSBS/HFA		<input type="checkbox"/> Meet with Faculty for Undergraduate research opportunities <input type="checkbox"/> Attend Career Services Workshop on Interviews <input type="checkbox"/> Professional Resume <input type="checkbox"/> Attend Career Fair <input type="checkbox"/> Co-op/Internship Offer (Summer Start)		
<b>SELECT ONE PATHWAY OPTION</b>				
 <b>Research Pathway</b>		 <b>Internship Pathway</b>	 <b>Co-op Pathway</b>	
<b>Milestone Year-3</b>				
<b>Research Pathway</b> <input type="checkbox"/> 96 hours completed including: MAE 341, ISE 390, CE 381, ISE 321, HSBS/HFA MAE 310, CE 372, CE 373, CE 380, CE 321, HSBS/HFA <input type="checkbox"/> Undergraduate Research <input type="checkbox"/> Attend JUMP Information Session		<b>Internship Pathway</b> <input type="checkbox"/> 96 hours completed from Curriculum Pathway <input type="checkbox"/> Summer Internship	<b>Co-op Pathway</b> <input type="checkbox"/> Obtain Faculty Mentor <input type="checkbox"/> 88 hours completed including: Work Semester (Summer) MAE 310, CE 272, CE 273, CE 380, ISE 321 (Fall) Work Semester (Spring) MAE 341, ISE 390, CE 380 (Summer) <input type="checkbox"/> 2 Semesters of Co-op	
<b>Milestone Year-4</b>				
<b>Research Pathway</b> <input type="checkbox"/> 128 hours completed including: CE 449, CE 483, CE 498, CE 484, HSBS/HFA, CE Conc 1 CE 441, CE 422, CE 485, CE 499, HSBS/HFA, CE Conc 2 <input type="checkbox"/> Undergraduate Research Complete <input type="checkbox"/> Senior Design Complete <input type="checkbox"/> Degree Complete <input type="checkbox"/> Begin Career or Graduate School		<b>Internship Pathway</b> <input type="checkbox"/> 128 hours completed from Curriculum Pathway <input type="checkbox"/> Summer Internship <input type="checkbox"/> Senior Design Complete <input type="checkbox"/> Degree Complete <input type="checkbox"/> Begin Career or Graduate School	<b>Co-op Pathway</b> <input type="checkbox"/> 101 hours completed including: Work Semester (Fall) CE 321, CE 441, CE Conc 1, HSBS/HFA, HSBS/HFA Work Semester (Summer) <input type="checkbox"/> Experiential Learning complete <input type="checkbox"/> Decision on Industry or Graduate School	
<b>Milestone Year-5</b>				
			<b>Co-op Pathway</b> <input type="checkbox"/> 128 hours completed including: CE 498, CE 483, CE 449, CE 484, HSBS/HFA CE 422, CE 499, CE 485, CE Conc 2, HSBS/HFA <input type="checkbox"/> Senior Design Complete <input type="checkbox"/> Degree Complete <input type="checkbox"/> Begin Career or Graduate School	