

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		
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	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
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
Biology - 4 hours							
		BYS 119	4	Principles of Biology	None		FSM
History, Social & Behavioral Sciences, Humanities & Fine Arts - 15 hours							
			3	HSBS	Choose 3 hours: History, Social or Behavior Science		FSM
			3	HFA	Choose 3 hours: Literature or Fine Art		FSM
			3		Choose 3 hour courses of HSBS/HFA that you have met prerequisites, from ARH, ARS*, CM, EH, ECN*, FL, GS, GY, HY, MU, PHL, PSC, PY, SOC, WS		
			3				
			3				
General Education Electives - 3 hours							
					Choose up to 3 hours of electives (Ex. FYE 101):		
					Any courses that you have met prerequisites,		
					and are not remedial coursework for Engineering curriculum.		
Engineering Core - 12 hours							
		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			Civil Engineering Option - 52 hours			
		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		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
Civil Engineering Electives - 6 hours							
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
	Transp	CE 420	3	Urban Transportation Planning	CE 321		F
		CE	3				
Gen	CE	3	Choose from CE 411, CE 412, CE 420, CE 456, CE 457, CE 458, CE 473, CE 481, CE 487				

Civil Engineering Program 2013/2014 (128 Hours)

UAHuntsville

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

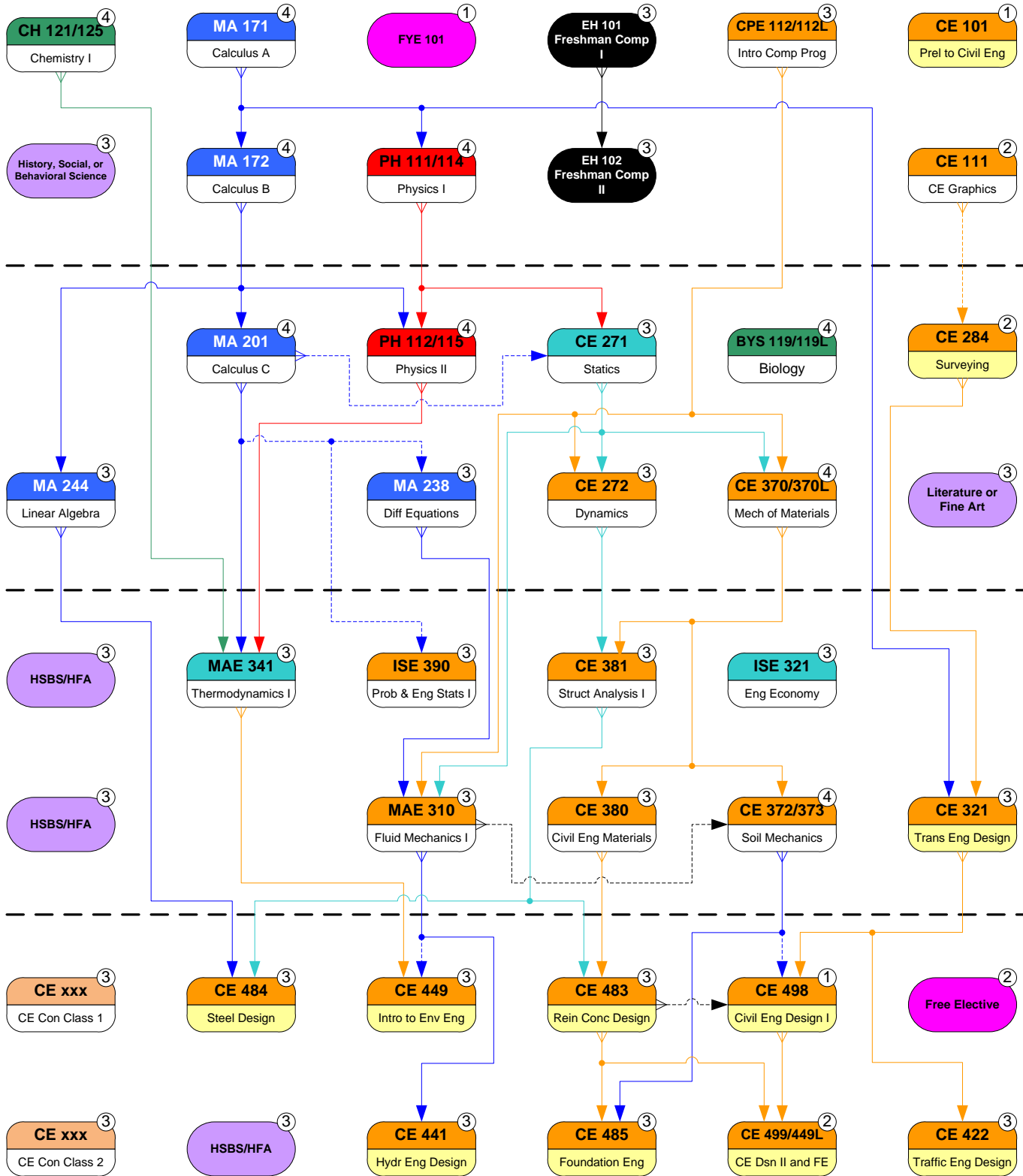
Civil Engineering Program 2013/2014 (128 Hours)

First Year

Second Year

Third Year

Fourth Year



Legend



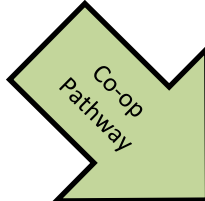
- Freshman Comp
- Mathematics
- Chemistry / Biology Core
- Physics
- History, Social, Behavior Science/Humanity & Fine Art
- Free Electives
- Engineering Core
- Civil Engineering Option
- Electives
- Offered only in that semester
- 3 Credit Hours
- Prereq w/concurrency
- Prerequisite



Department	Prepared by	Date
Civil & Environmental	Jacob Kerstiens	8/8/13
Program	Approved by	Date
Civil Engineering		

College of Engineering Pathways

Aerospace Engineering 2013-2014 Plan

	Curriculum Pathway	Research Pathway	Internship Pathway	Co-op Pathway		
Milestone Year-1						
<input type="checkbox"/> 35 hours completed including: MA 171, CH 121/125, MAE 111, HSBS/HFA, FYE 101, EH 101 MA 172, PH 111/114, MAE 200, 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			
Milestone Year-2						
<input type="checkbox"/> 68 hours completed including: MA 201, PH 112/115, MA 244, MAE 271, Free Elec MA 238, MAE 284, Sci Elec, MAE 272, MAE 370			<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)			
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>Research Pathway</p> </div> <div style="text-align: center;">  <p>Internship Pathway</p> </div> <div style="text-align: center;">  <p>Co-op Pathway</p> </div> </div>						
Milestone Year-3						
Research Pathway <input type="checkbox"/> 98 hours completed including: MAE 341, EE 213, MAE 371, MAE 310, HSBS/HFA MAE 420, MAE 311, MAE 488, ISE 321, HSBS/HFA <input type="checkbox"/> Undergraduate Research <input type="checkbox"/> Attend JUMP Information Session		Internship Pathway <input type="checkbox"/> 98 hours completed from Curriculum Pathway <input type="checkbox"/> Summer Internship		Co-op Pathway <input type="checkbox"/> Obtain Faculty Mentor <input type="checkbox"/> 65 hours completed including: Work Semester (Summer) MAE 341, EE 213, MAE 310, MAE 371, HSBS/HFA (Fall) Work Semester (Spring) EE 420, MAE 311, ISE 321, HSBS/HFA (Summer) <input type="checkbox"/> 2 Semesters of Co-op		
Milestone Year-4						
Research Pathway <input type="checkbox"/> 128 hours completed including: MAE 490, MAE 430, MAE 440, MAE 441, Tech Elec, HSBS/HFA MAE 49x, MAE 471, MAE 468, MAE 480, Tech Elec <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		Internship Pathway <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		Co-op Pathway <input type="checkbox"/> 89 hours completed including: Work Semester (Fall) MAE 490, MAE 471, MAE 468, Tech Elec (Spring) MAE 488, MAE 430, MAE 440 MAE 441, HSBS/HFA (Summer) <input type="checkbox"/> Experiential Learning complete <input type="checkbox"/> Decision on Industry or Graduate School		
Milestone Year-5						
				Co-op Pathway <input type="checkbox"/> 128 hours completed including: MAE 49x, Tech Elec, MAE 480 (Fall) <input type="checkbox"/> Senior Design Complete <input type="checkbox"/> Degree Complete <input type="checkbox"/> Begin Career or Graduate School		

Required	
Recommended	