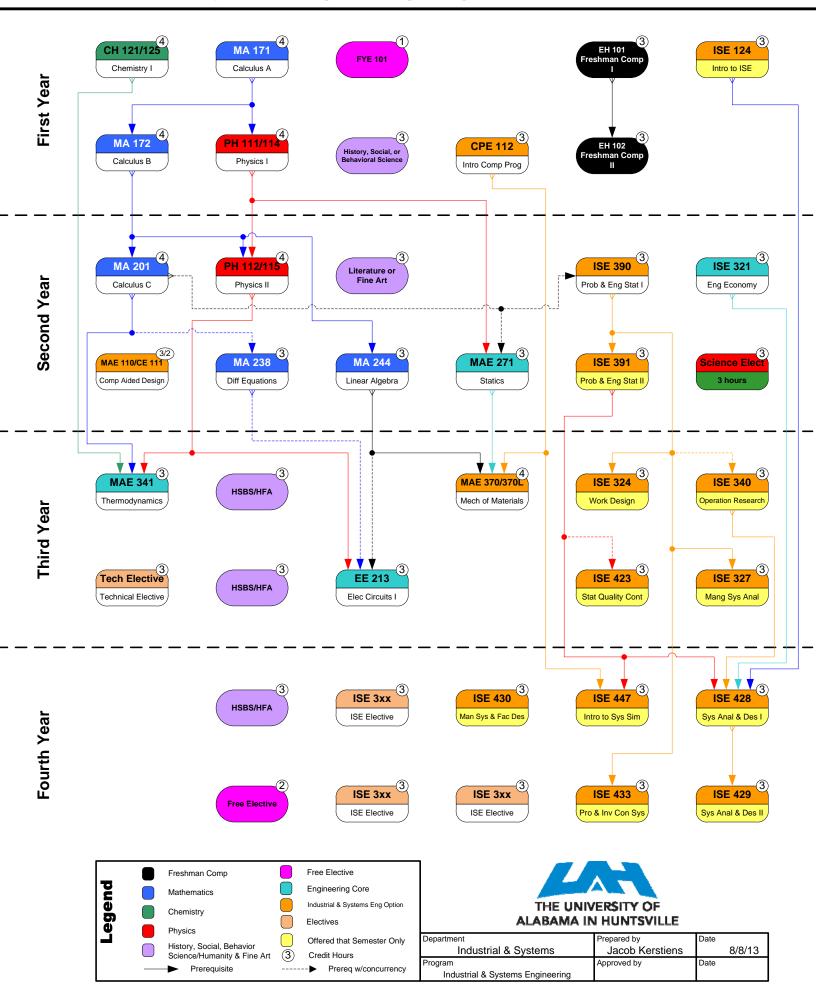
Semester,	Grade	Course	Cr	Student Name (Last, First MI) Prerequisites, Corequisites and/or			
Transfer or	Grade	Number	Hrs	Course Title Prerequisites with Concurrency		M=Summe	
	-			English - 6 hours			
		EH 101	3	Freshman Composition I	Placement	FSM	
		EH 102	3	Freshman Composition II	EH 101	FSM	
				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		
		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	Prereg 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	Prereg w/Con: PH 112	FSM	
				Science Elective - 3 hours	• · ·		
		1	3		BYS 119 or CH 123 or 300/400 level MA course		
			Ĵ	History Social & Behavioral Scie	ences, Humaities & Fine Arts - 15 hours		
		<u>г</u>	3	HSBS	Choose 3 hours: History, Social or Behavior Science	FSM	
			3	HFA	Choose 3 hours: Literature or Fine Art	FSM	
			3	ПГА		F 3IVI	
			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				
			_	General Education Electives - 3 h	nours		
					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			
		MAE 271	3	Statics	PH 111, Prereq w/Con: MA 201	FSM	
		EE 213	3	Electrical Circuit Analysis I	PH 112, Prereq w/Con: MA 238 & (MA 244 or CHE 244)	FSM	
		ISE 321	3	Engineering Economy	Sophomore Standing	FSM	
		MAE 341	3	Thermodynamics I	MA 201, CH 121, CH 125, PH 112	FSM	
Class has require	d lab secti	ion		Industrial & System Engineering	Option - 46 hours		
		CPE 112	3	Intro to Computer Programming in Engineering	MA 113, MA 115 or Level III Placement, Coreq: CPE 112L	FSM	
		MAE 111	3	Intro to Computational Tools	Prereq w/Con: MA 113 or Level II Placement	FSM	
		CE 111	2	Civil Engineering Graphics	MA 112 or Level II Placement, Freshman CE Standing	FS	
		ISE 124	3	Intro to Industrial & Systems Engineering	Prereq w/Con: MA 113	F	
		ISE 324	3	Work Design	ISE 390	F	
		ISE 327	3	Management Systems Analysis	ISE 390	S	
		ISE 340	3	Operations Research	Prereq w/Con: ISE 390	F	
		MAE 370	4	Mechanics of Materials	MAE/CE 271, MA 244 & (MAE 111 or CPE 112), Coreq: MAE 370L	FSM	
		ISE 390	3	Probability & Engineering Statistics I	Prereq w/Con: MA 201	FSM	
		ISE 391	3	Probability & Engineering Statistics II	ISE 390	S	
		ISE 423	3	Statistical Quality Control	Prereq w/Con: ISE 391	S	
		ISE 428	3	Systems Analysis & Design I	ISE 124, ISE 321, ISE 340, ISE 391, Senior Standing	F	
		ISE 429	3	Systems Analysis & Design II	ISE 428	S	
		ISE 430	3	Manufacturing Systems and Facilities Design	Senior Standing	F	
		ISE 433	3	Production & Inventory Control Systems	ISE 390	S	
		ISE 447	3	Intro to Systems Simulation	CPE 112, ISE 391	F	
	1			Industrial & Systems Engineering			
			2	industrial & Systems Engineering	g Electives - 9 Hours		
			3	Choose from MA 385, ISE 402, ISE 403, ISE 426,	ISE 437, or other upper-level courses approved by the Department.		
						1	
			-	May select a maximum of 6 hours from the followi	ng: EH 301, ACC 211, MTK 301, MGT 363, or MGT 462.		
			3	May select a maximum of 6 hours from the followi Technical Elective - 3 hours	ng: EH 301, ACC 211, MTK 301, MGT 363, or MGT 462.		

The Catalog is the final authority for all degree requirements.

## Industrial & Systems Engineering Program 2013/2014 (127 Hours)



## **College of Engineering Pathways**

Industrial & Systems Engineering 2013-2014 Plan

		, .	gineering 2013-20				
Curriculum		Research	Internship		Со-ор		
	Pathway	Pathway	Pathway		Pathway		
		Mileton	e Year-1	1 <b>4</b> 1 - 1			
[ ] 32 hours completed including	g: 121/125, FYE 101,				liscuss pathway choice	es	
			<ul> <li>[ ] Meet with Career Development</li> <li>[ ] Attend Career Services Workshop on Resume</li> </ul>				
	1, ISE 124				s workshop on Resum	e	
	11/114, CPE 112,		[] Outline Resume				
EH 102	, HSBS/HFA		[] Participate in Ca	areer Fa	air		
		5 <b>6</b> 1	× 0				
		Milestor	ne Year-2				
[ ] 64 hours completed including		[ ] Meet with Faculty for Undergraduate research opportunities					
	112/115, ISE 390,						
	1, Sci Elec	[] Professional Resume					
	AE 271, ISE 391,		[] Attend Career F		r (Currens en Chent)		
MA 244,	MAE/CE 111		[] Co-op/Internshi	ip Offei	r (Summer Start)		
Research	and the second s	Interr Path	nship hway		Patrinuay		
		Milostor	ne Year-3				
Desserve Dethurou				_	Co. on [	athway	
Research Pathway	~.	[ ] 95 hours comp	p Pathway			Pathway	
[ ] 95 hours completed including MAE 341, ISE 340, ISE 32					[ ] Obtain Faculty Me		
	<u>-</u> 4,	Curriculum			91 hours complete		
MAE 370, HSBS/HFA	7	[] Summer Interr	iship			ter (Summer) 324, ISE Elec,	
EE 213, ISE 423, ISE 323	<b>,</b>						
HSBS/HFA, Tech Elec						HSBS/HFA	
[] Undergraduate Research						ster (Spring)	
[] Attend JUMP Information Set	ssion					MAE 341,	
						Free Elec	
					[] 2 Semesters of Co	о-ор	
		NAilester					
Dessevel Dethuse			ne Year-4		(a. a. a.	athura.	
Research Pathway		Internship Pathway           127 hours completed from			Co-op Pathway		
[ ] 127 hours completed including:					[ ] 103 hours completed including:		
ISE 430, ISE 447, ISE 42	0,	Curriculum Pathway			Work Semester (Fall) ISE 423, ISE 327,		
ISE Elec, HSBS/HFA ISE 429, ISE 433, Free Elec		<ul> <li>[ ] Summer Internship</li> <li>[ ] Senior Design Complete</li> </ul>					
					Tech Elec, HSBS/HFA Work Semester (Summer)		
ISE Elec, ISE Elec, HSBS/HFA		Degree Complete     Begin Carper or Graduate School					
[] Undergraduate Research Cor	inplete	[] Begin Career or Graduate School			<ul><li>[ ] Experiential Learning complete</li><li>[ ] Decision on Industry</li></ul>		
Senior Design Complete					or Graduate Sc		
Degree Complete     Degree Complete					or Graduate Sc	1001	
[] Begin Career or Graduate Sch	1001						
		N4:Lootor	Noor E				
		ivillestor	ne Year-5		Co. or [	Pathway	
				ŀ	Co-op F 127 hours comple	· · · · · · · · · · · · · · · · · · ·	
				ŀ	<u> </u>	ISE 428,	
						ISBS/HFA	
				ŀ		ISE 433,	
						ISE Elec	
I	Poquirad	1		l l			
Ⅰ ⊢	Required	-			[ ] Senior Design Con	ipiete	
Reco	ommended	-			Degree Complete           Bogin Carpor or Ci	raduato Cobaci	
			/2014		[] Begin Career or G	auuate School	