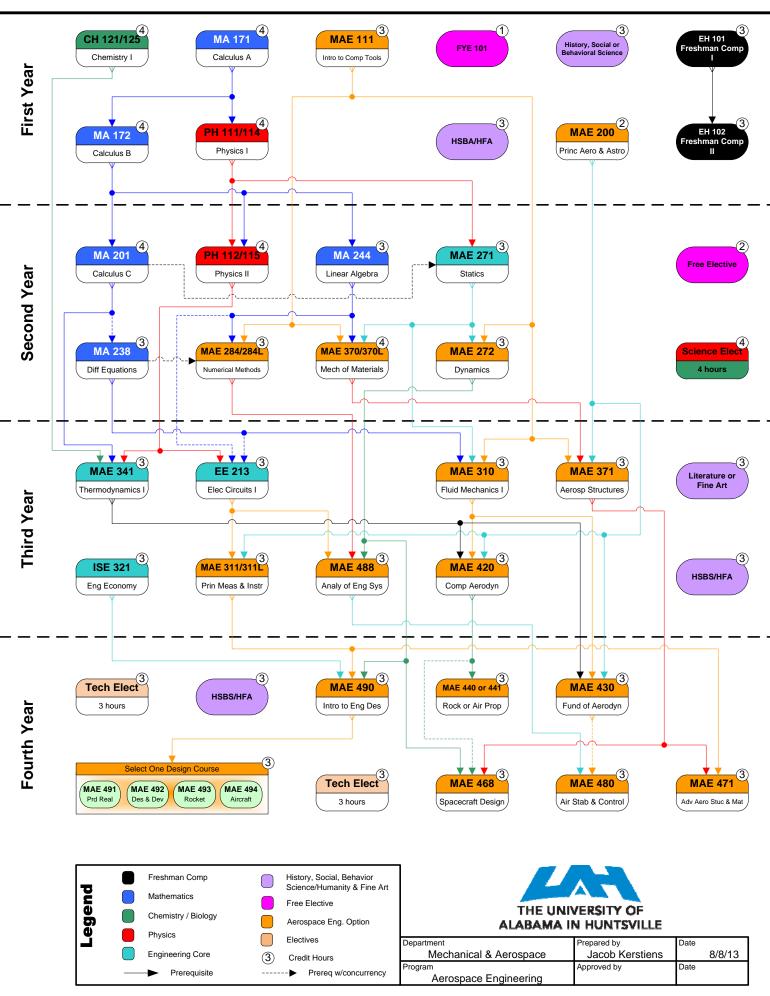
Semester,		Course	Cr	Prerequisites, Corequisites and/	F=Fall or S=Spring
Transfer or AP	Grade	Number	Hrs	Course Title Prerequisites with Concurrence	y M=Summe
			_	English - 6 hours	
		EH 101		Freshman Composition I Placement	FSM
		EH 102	3	Freshman Composition II EH 101	FSM
				Mathematics - 18 hours	
		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	
	<u> </u>	CH 121	3	General Chemistry I Plcmt or CH 101, MA 113 or 115, Prereq w/Con: MA 171,	Coreq: CH 125 FSM
	1	CH 125	1	General Chemistry Lab I Coreq: CH 121	FSM
				Physics - 8 hours	
	T T	PH 111	3	General Physics w/Calculus I MA 171	FSM
		PH 114		General Physics Lab I Prereq w/Con: PH 111	FSM
	<u> </u>	PH 112		General Physics w/Calculus II MA 172, PH 111	FSM
	<u> </u>	PH 115	1	General Physics Lab II Prereq w/Con: PH 112	FSM
			<u> </u>	Science Elective - 4 hours	1.5101
			3		FSM
	├───	┨──────────	3	Choose from CH 123/126 or PH 113/116	
	L	<u></u>	L +	History Regist & Rehavioral Osignana Humpitics & First Asta of Fi	FSM
				History, Social & Behavioral Sciences, Humaities & Fine Arts - 15 hours	
	 			HSBS Choose 3 hours: History, Social or Behavior Science	FSM
	<u> </u>			HFA Choose 3 hours: Literature or Fine Art	FSM
	 		3	Choose 3 hour courses of HSBS/HFA that you have met p	prerequisites,
			3	from ARH, ARS*, CM, EH, ECN*, FL, GS,	
			3	GY, HY, MU, PHL, PSC, PY, SOC, WS	
				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 curriculu	ım.
				Engineering Core - 12 hours	
		MAE 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
	1	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
lass has required I	ab section			Aerospace Engineering Option - 52 hours	
			3		FSM
	<u> </u>	MAE 111 MAE 200	3	Intro to Computational Tools Prereq w/Con: MA 113 or Level II Placement	FSM FS
		MAE 111 MAE 200		Intro to Computational Tools Prereq w/Con: MA 113 or Level II Placement Principles of Aeronautics & Astronautics Prereq w/Con: MA 113 or Level II Placement	FS
		MAE 111 MAE 200 MAE 272	3 3	Intro to Computational Tools Prereq w/Con: MA 113 or Level II Placement Principles of Aeronautics & Astronautics Prereq w/Con: MA 113 or Level II Placement Dynamics MAE/CE 271 & (MAE 111 or CPE 112)	FS FSM
		MAE 111 MAE 200 MAE 272 MAE 284	3 3 3	Intro to Computational Tools Prereq w/Con: MA 113 or Level II Placement Principles of Aeronautics & Astronautics Prereq w/Con: MA 113 or Level II Placement Dynamics MAE/CE 271 & (MAE 111 or CPE 112) Numerical Methods MA 244 & (MAE 111 or CPE 112): Prereq w/Con: MA 238 & Coreq	FS FSM : MAE 284L FSM
		MAE 111 MAE 200 MAE 272 MAE 284 MAE 310	3 3 3 3	Intro to Computational Tools Prereq w/Con: MA 113 or Level II Placement Principles of Aeronautics & Astronautics Prereq w/Con: MA 113 or Level II Placement Dynamics MAE/CE 271 & (MAE 111 or CPE 112) Numerical Methods MA 244 & (MAE 111 or CPE 112); Prereq w/Con: MA 238 & Coreq Fluid Mechanics I MA 238, MAE/CE 271 & (MAE 111 or CPE 112) or CHE 112	FS FSM : MAE 284L FSM 28) FSM
		MAE 111 MAE 200 MAE 272 MAE 284 MAE 310 MAE 311	3 3 3 3 3	Intro to Computational Tools Prereq w/Con: MA 113 or Level II Placement Principles of Aeronautics & Astronautics Prereq w/Con: MA 113 or Level II Placement Dynamics MAE/CE 271 & (MAE 111 or CPE 112) Numerical Methods MA 244 & (MAE 111 or CPE 112); Prereq w/Con: MA 238 & Coreq Fluid Mechanics I MA 238, MAE/CE 271 & (MAE 111 or CPE 112 or CHE 14) Principles of Measurement & Instrumentation EE 213 & (MAE 100 or 200), Coreq: MAE 311L	FS FSM : MAE 284L FSM 98) FSM FSM
		MAE 111 MAE 200 MAE 272 MAE 284 MAE 310 MAE 311 MAE 370	3 3 3 3 3 4	Intro to Computational Tools Prereq w/Con: MA 113 or Level II Placement Principles of Aeronautics & Astronautics Prereq w/Con: MA 113 or Level II Placement Dynamics MAE/CE 271 & (MAE 111 or CPE 112) Numerical Methods MA 244 & (MAE 111 or CPE 112); Prereq w/Con: MA 238 & Coreq Fluid Mechanics I MA 238, MAE/CE 271 & (MAE 111 or CPE 112 or CHE 112) Principles of Measurement & Instrumentation EE 213 & (MAE 100 or 200), Coreq: MAE 311L Mechanics of Materials MAE/CE 271, MA 244 & (MAE 111 or CPE 112), Coreq: NA	FS FSM ; MAE 284L FSM 98) FSM FSM MAE 370L FSM
		MAE 111 MAE 200 MAE 272 MAE 284 MAE 310 MAE 311 MAE 370 MAE 371	3 3 3 3 4 3	Intro to Computational Tools Prereq w/Con: MA 113 or Level II Placement Principles of Aeronautics & Astronautics Prereq w/Con: MA 113 or Level II Placement Dynamics MAE/CE 271 & (MAE 111 or CPE 112) Numerical Methods MA 244 & (MAE 111 or CPE 112): Prereq w/Con: MA 238 & Coreq Fluid Mechanics I MA 238, MAE/CE 271 & (MAE 111 or CPE 112 or CHE 14) Principles of Measurement & Instrumentation EE 213 & (MAE 100 or 200), Coreq: MAE 311L Mechanics of Materials MAE/CE 271, MA 244 & (MAE 111 or CPE 112), Coreq: MA Aerospace Structures MAE 111, MAE 200, MAE/CE 370	FS FSM ; MAE 284L FSM 98) FSM FSM FSM MAE 370L FSM FS FS
		MAE 111 MAE 200 MAE 272 MAE 284 MAE 310 MAE 311 MAE 370 MAE 371 MAE 420	3 3 3 3 3 4 3 3 3	Intro to Computational Tools Prereq w/Con: MA 113 or Level II Placement Principles of Aeronautics & Astronautics Prereq w/Con: MA 113 or Level II Placement Dynamics MAE/CE 271 & (MAE 111 or CPE 112) Numerical Methods MA 244 & (MAE 111 or CPE 112): Prereq w/Con: MA 238 & Coreq Fluid Mechanics I MA 238, MAE/CE 271 & (MAE 111 or CPE 112 or CHE 14) Principles of Measurement & Instrumentation EE 213 & (MAE 100 or 200), Coreq: MAE 311L Mechanics of Materials MAE/CE 271, MA 244 & (MAE 111 or CPE 112), Coreq: MA Aerospace Structures MAE 111, MAE 200, MAE/CE 370 Compressible Aerodynamics MAE 200, MAE 310, MAE 341	FS FSM FSM 780 FSM 780 FSM AAE 370L FS SM
		MAE 111 MAE 200 MAE 272 MAE 284 MAE 310 MAE 311 MAE 370 MAE 371 MAE 420 MAE 430	3 3 3 3 4 3 3 3 3 3	Intro to Computational Tools Prereq w/Con: MA 113 or Level II Placement Principles of Aeronautics & Astronautics Prereq w/Con: MA 113 or Level II Placement Dynamics MAE/CE 271 & (MAE 111 or CPE 112) Numerical Methods MA 244 & (MAE 111 or CPE 112): Prereq w/Con: MA 238 & Coreq Fluid Mechanics I MA 238, MAE/CE 271 & (MAE 111 or CPE 112 or CHE 14) Principles of Measurement & Instrumentation EE 213 & (MAE 100 or 200), Coreq: MAE 311L Mechanics of Materials MAE/CE 271, MA 244 & (MAE 111 or CPE 112), Coreq: MA Aerospace Structures MAE 111, MAE 200, MAE/CE 370 Compressible Aerodynamics MAE 200, MAE 310, MAE 341 Fundamentals of Aerodynamics MAE 200, MAE 310, MAE 341	FS FSM FSM 98) FSM AAE 370L FSM FS SM FSM FSM
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		MAE 111 MAE 200 MAE 272 MAE 284 MAE 310 MAE 311 MAE 371 MAE 420 MAE 430 MAE 440 MAE 441	3 3 3 3 4 3 3 3 3 3 3 3	Intro to Computational Tools Prereq w/Con: MA 113 or Level II Placement Principles of Aeronautics & Astronautics Prereq w/Con: MA 113 or Level II Placement Dynamics MAE/CE 271 & (MAE 111 or CPE 112) Numerical Methods MA 244 & (MAE 111 or CPE 112): Prereq w/Con: MA 238 & Coreq Fluid Mechanics I MA 238, MAE/CE 271 & (MAE 111 or CPE 112): Prereq w/Con: MA 238 & Coreq Principles of Measurement & Instrumentation EE 213 & (MAE 100 or 200), Coreq: MAE 311L Mechanics of Materials MAE/CE 271, MA 244 & (MAE 111 or CPE 112), Coreq: N Aerospace Structures MAE 111, MAE 200, MAE/CE 370 Compressible Aerodynamics MAE 200, MAE 310, MAE 341 Fundamentals of Aerodynamics MAE 200, MAE 320, MAE 320 Airbreathing Propulsion MAE 420	FS FSM FSM 98) FSM 780 FSM 781 FSM 782 FSM 783 FSM 784 FSM 785 SM 780 FM 781 FM 782 FM 783 FM 784 FM 785 FM 786 FM 787 FM*
		MAE 111 MAE 200 MAE 272 MAE 284 MAE 310 MAE 311 MAE 370 MAE 371 MAE 420 MAE 430 MAE 441 MAE 468	3 3 3 3 4 3 3 3 3 3 3 3 3	Intro to Computational Tools Prereq w/Con: MA 113 or Level II Placement Principles of Aeronautics & Astronautics Prereq w/Con: MA 113 or Level II Placement Dynamics MAE/CE 271 & (MAE 111 or CPE 112) Numerical Methods MA244 & (MAE 111 or CPE 112): Prereq w/Con: MA 238 & Coreq Fluid Mechanics I MA 238, MAE/CE 271 & (MAE 111 or CPE 112): Prereq w/Con: MA 238 & Coreq Principles of Measurement & Instrumentation EE 213 & (MAE 100 or 200), Coreq: MAE 311L Mechanics of Materials MAE/CE 271, MA 244 & (MAE 111 or CPE 112), Coreq: N Aerospace Structures MAE 111, MAE 200, MAE/CE 370 Compressible Aerodynamics MAE 200, MAE 310, MAE 341 Fundamentals of Aerodynamics MAE 420 Airbreathing Propulsion MAE 420 Elements of Spacecraft Design MAE/CE 272, MAE 371, Prereq w/Con: MAE 420	FS FSM FSM 98) FSM AAE 370L FS SM FS SM FM FM <t< td=""></t<>
		MAE 111 MAE 200 MAE 272 MAE 284 MAE 310 MAE 311 MAE 370 MAE 371 MAE 420 MAE 430 MAE 440 MAE 468 MAE 471	3 3 3 3 4 3 3 3 3 3 3 3 3 3	Intro to Computational ToolsPrereq w/Con: MA 113 or Level II PlacementPrinciples of Aeronautics & AstronauticsPrereq w/Con: MA 113 or Level II PlacementDynamicsMAE/CE 271 & (MAE 111 or CPE 112)Numerical MethodsMA 244 & (MAE 111 or CPE 112): Prereq w/Con: MA 238 & CoreqFluid Mechanics IMA 238, MAE/CE 271 & (MAE 111 or CPE 112 or CHE 14)Principles of Measurement & InstrumentationEE 213 & (MAE 100 or 200), Coreq: MAE 311LMechanics of MaterialsMAE/CE 271, MA 244 & (MAE 111 or CPE 112); Oreq: NAerospace StructuresMAE 111, MAE 200, MAE/CE 370Compressible AerodynamicsMAE 200, MAE 310, MAE 341Fundamentals of AerodynamicsMAE 420Airbreathing PropulsionMAE 420Elements of Spacecraft DesignMAE/CE 272, MAE 371, Prereq w/Con: MAE 420Advanced Aero Stucture & MaterialsMAE 311, MAE 371	FS FSM FSM 98) FSM AAE 370L FS SM FM FM FM* FS
		MAE 111 MAE 200 MAE 272 MAE 284 MAE 310 MAE 311 MAE 370 MAE 370 MAE 420 MAE 430 MAE 440 MAE 468 MAE 471 MAE 480	3 3 3 3 4 3 3 3 3 3 3 3 3 3 3 3 3 3	Intro to Computational ToolsPrereq w/Con: MA 113 or Level II PlacementPrinciples of Aeronautics & AstronauticsPrereq w/Con: MA 113 or Level II PlacementDynamicsMAE/CE 271 & (MAE 111 or CPE 112)Numerical MethodsMA 244 & (MAE 111 or CPE 112): Prereq w/Con: MA 238 & CoreqFluid Mechanics IMA 238, MAE/CE 271 & (MAE 111 or CPE 112 or CHE 14)Principles of Measurement & InstrumentationEE 213 & (MAE 100 or 200), Coreq: MAE 311LMechanics of MaterialsMAE/CE 271, MA 244 & (MAE 111 or CPE 112), Coreq: NAerospace StructuresMAE 111, MAE 200, MAE/CE 370Compressible AerodynamicsMAE 200, MAE 310, MAE 341Fundamentals of AerodynamicsMAE 420Airbreathing PropulsionMAE 420Elements of Spacecraft DesignMAE/CE 272, MAE 371, Prereq w/Con: MAE 420Advanced Aero Stucture & MaterialsMAE 311, MAE 371Aircraft Stability & ControlPrereq w/Con: MAE 430 & MAE 488	FS FSM FSM 98) FSM AAE 370L FS SM FM FM FM* FS FS FS FS FS FS FM FM* FS
		MAE 111 MAE 200 MAE 201 MAE 272 MAE 284 MAE 310 MAE 311 MAE 370 MAE 371 MAE 420 MAE 440 MAE 441 MAE 468 MAE 480 MAE 488	3 3 3 3 4 3 3 3 3 3 3 3 3 3 3 3 3 3	Intro to Computational ToolsPrereq w/Con: MA 113 or Level II PlacementPrinciples of Aeronautics & AstronauticsPrereq w/Con: MA 113 or Level II PlacementDynamicsMAE/CE 271 & (MAE 111 or CPE 112)Numerical MethodsMA244 & (MAE 111 or CPE 112): Prereq w/Con: MA 238 & CoreqFluid Mechanics IMA 238, MAE/CE 271 & (MAE 111 or CPE 112 or CHE 14)Principles of Measurement & InstrumentationEE 213 & (MAE 100 or 200), Coreq: MAE 311LMechanics of MaterialsMAE/CE 271, MA 244 & (MAE 111 or CPE 112); Oreq: NAerospace StructuresMAE 111, MAE 200, MAE/CE 370Compressible AerodynamicsMAE 200, MAE 310, MAE 341Fundamentals of AerodynamicsMAE 420Airbreathing PropulsionMAE 420Advanced Aero Stucture & MaterialsMAE/CE 272, MAE 371, Prereq w/Con: MAE 420Advanced Aero Stucture & MaterialsMAE 311, MAE 371Aircraft Stability & ControlPrereq w/Con: MAE 430 & MAE 488Analysis of Engineering SystemsEE 213, MAE/CE 272, MAE 284	FS FSM FSM 98) FSM 780 FSM AAE 370L FSM FS SM FM FM* FS FS FS FS FS FS FM FM* FS FS
		MAE 111 MAE 200 MAE 201 MAE 284 MAE 310 MAE 311 MAE 370 MAE 420 MAE 420 MAE 440 MAE 441 MAE 468 MAE 480 MAE 488 MAE 490	3 3 3 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Intro to Computational ToolsPrereq w/Con: MA 113 or Level II PlacementPrinciples of Aeronautics & AstronauticsPrereq w/Con: MA 113 or Level II PlacementDynamicsMAE/CE 271 & (MAE 111 or CPE 112)Numerical MethodsMA244 & (MAE 111 or CPE 112): Prereq w/Con: MA 238 & CoreqFluid Mechanics IMA 238, MAE/CE 271 & (MAE 111 or CPE 112) or CHE 14Principles of Measurement & InstrumentationEE 213 & (MAE 100 or 200), Coreq: MAE 311LMechanics of MaterialsMAE/CE 271, MA 244 & (MAE 111 or CPE 112), Coreq: NAerospace StructuresMAE 111, MAE 200, MAE/CE 370Compressible AerodynamicsMAE 200, MAE 310, MAE 341Fundamentals of AerodynamicsMAE 420Airbreathing Propulsion IMAE 420Advanced Aero Stucture & MaterialsMAE/CE 272, MAE 371, Prereq w/Con: MAE 420Advanced Aero Stucture & MaterialsMAE 311, MAE 371Aircraft Stability & ControlPrereq w/Con: MAE 430 & MAE 488Analysis of Engineering DesignMAE/CE 272, MAE 311, ISE 321	FS FSM FSM 98) FSM 780 FSM AAE 370L FSM FS SM FM FM* FS FS FS FS FM FS FS FS FM* FS FS FS FS FS FS FS FS FS FSM FSM
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		MAE 111 MAE 200 MAE 201 MAE 272 MAE 284 MAE 310 MAE 311 MAE 371 MAE 420 MAE 430 MAE 440 MAE 468 MAE 480 MAE 480 MAE 480 MAE 491 MAE 492	3 3 3 3 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Intro to Computational ToolsPrereq w/Con: MA 113 or Level II PlacementPrinciples of Aeronautics & AstronauticsPrereq w/Con: MA 113 or Level II PlacementDynamicsMAE/CE 271 & (MAE 111 or CPE 112)Numerical MethodsMA244 & (MAE 111 or CPE 112): Prereq w/Con: MA 238 & CoreqFluid Mechanics IMA 238, MAE/CE 271 & (MAE 111 or CPE 112) or CHE 10Principles of Measurement & InstrumentationEE 213 & (MAE 100 or 200), Coreq: MAE 311LMechanics of MaterialsMAE/CE 271, MA 244 & (MAE 111 or CPE 112), Coreq: NAAerospace StructuresMAE 111, MAE 200, MAE/CE 370Compressible AerodynamicsMAE 200, MAE 310, MAE 341Fundamentals of AerodynamicsMAE 420Airbreathing Propulsion IMAE 420Advanced Aero Stucture & MaterialsMAE/CE 272, MAE 371, Prereq w/Con: MAE 420Advanced Aero Stucture & MaterialsMAE 311, MAE 371Aircraft Stability & ControlPrereq w/Con: MAE 430 & MAE 488Analysis of Engineering DesignMAE/CE 272, MAE 311, ISE 321Product RealizationMAE 490 & Senior StandingMission Design & DevelopmentMAE 490 & Senior Standing	FS FSM FSM 98) FSM AAE 370L FSM FS SM FM FM* FS FS FS FS FM* FS FS FS FS FS FS FS FS FS FS FS FS FS FSM FSM FSM FSM FS S
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		MAE 111 MAE 200 MAE 272 MAE 284 MAE 310 MAE 311 MAE 370 MAE 370 MAE 420 MAE 440 MAE 440 MAE 441 MAE 468 MAE 471 MAE 480 MAE 490 MAE 491 MAE 493	3 3 3 3 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Intro to Computational ToolsPrereq w/Con: MA 113 or Level II PlacementPrinciples of Aeronautics & AstronauticsPrereq w/Con: MA 113 or Level II PlacementDynamicsMAE/CE 271 & (MAE 111 or CPE 112)Numerical MethodsMA244 & (MAE 111 or CPE 112): Prereq w/Con: MA 238 & CoreqFluid Mechanics IMA 238, MAE/CE 271 & (MAE 111 or CPE 112) or CHE 14Principles of Measurement & InstrumentationEE 213 & (MAE 100 or 200), Coreq: MAE 311LMechanics of MaterialsMAE/CE 271, MA 244 & (MAE 111 or CPE 112), Coreq: NAerospace StructuresMAE 111, MAE 200, MAE/CE 370Compressible AerodynamicsMAE 200, MAE 310, MAE 341Fundamentals of AerodynamicsMAE 420Airbreathing Propulsion IMAE 420Advanced Aero Stucture & MaterialsMAE/CE 272, MAE 371, Prereq w/Con: MAE 420Advanced Aero Stucture & MaterialsMAE 311, MAE 371Aircraft Stability & ControlPrereq w/Con: MAE 430 & MAE 488Analysis of Engineering DesignMAE/CE 272, MAE 311, ISE 321Product RealizationMAE 490 & Senior StandingMission Design & DevelopmentMAE 490 & Senior StandingMoket DesignMAE 490 & Senior Standing	FS FSM FSM 98) FSM 780 FSM 781 FSM 782 FSM 783 FSM 784 FSM 785 FS 786 FM* 787 FS 788 FS 789 FS 780 FS 781 FS 783 FSM 784 FSM 785 S 784 S 785 S

* These courses are offered in alternating summers. Please consult the MAE 5 year plan.

All prerequisite classes must be completed with a "C" or higher grade.

The Catalog is the final authority for all degree requirements.

Aerospace Engineering Program 2013/2014 (129 Hours)



Aerospace Engineering 2013-2014 Plan

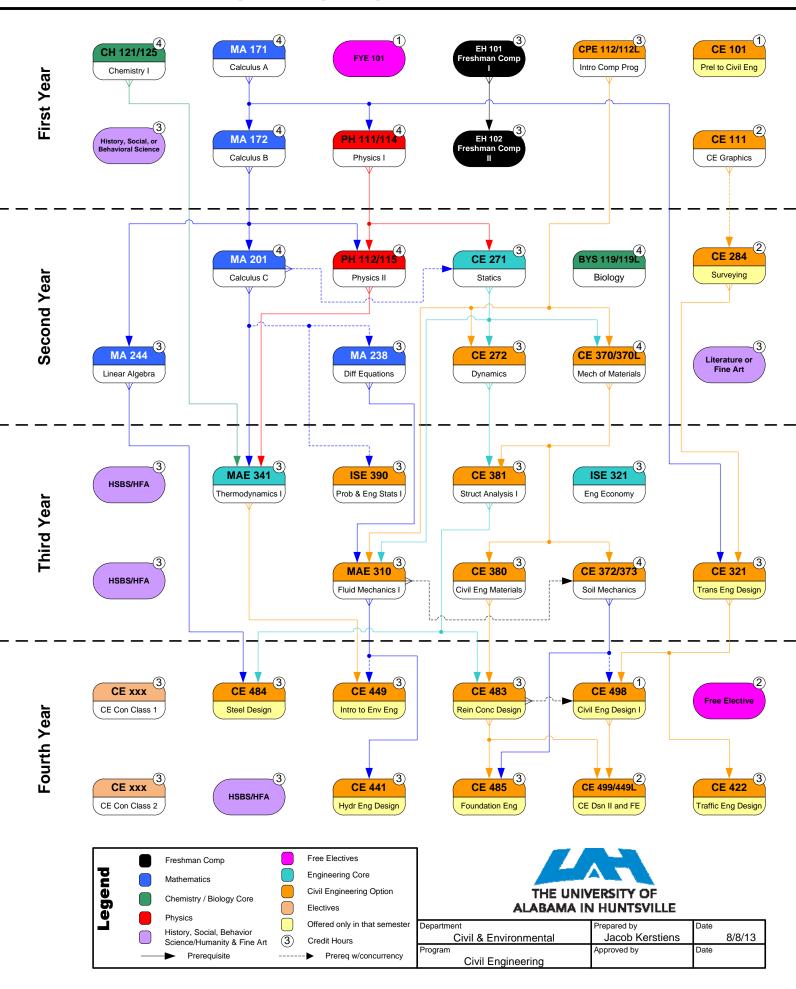
	erospace Enginee	0		
Curriculum	Research	Internship	Со-ор	
Pathway	Pathway	Pathway	Pathway	
	Mileton	e Year-1		
35 hours completed including:		[] Meet with Faculty to	discuss pathway choices	
MA 171, CH 121/125, MAE 1	11,	[] Meet with Career De		
HSBS/HFA, FYE 101, EH 10	1		es Workshop on Resume	
MA 172, PH 111/114, MAE 2		[] Outline Resume		
HSBS/HFA, EH 102	,	[] Participate in Career	Fair	
11505/117A, Ell 102				
	Milester	ne Year-2		
[] CO have a second stand in shadin se	winestor			
[] 68 hours completed including: MA 201, PH 112/115, MA 24	4.4		Undergraduate research oppo	ortunities
	+4,		es Workshop on Interviews	
MAE 271, Free Elec		[] Professional Resume		
MA 238, MAE 284, Sci Elec	, ,	[] Attend Career Fair		
MAE 272, MAE 370		[] Co-op/Internship Off	er (Summer Start)	
Research Research	Interr	nship Iway	Pathiway	
		ne Year-3		
Research Pathway		o Pathway	Co-op Pathway	Y
[] 98 hours completed including:	[] 98 hours comp		[] Obtain Faculty Mentor	
MAE 341, EE 213, MAE 371,	Curriculum	-	[] 65 hours completed inclu	
MAE 310, HSBS/HFA	[] Summer Interr	nship	Work Semester (Sun	· · · · · · · · · · · · · · · · · · ·
MAE 420, MAE 311, MAE 488,			MAE 341, EE 213, MA	\Е 310,
ISE 321, HSBS/HFA			MAE 371, HSBS/HFA	(Fall)
[] Undergraduate Research			Work Semester (Sp	ring)
Attend JUMP Information Session			EE 420, MAE 31	1,
			ISE 321, HSBS/HFA (Su	ummer)
			[] 2 Semesters of Co-op	
	Milestor	ne Year-4		
Posoarch Pathway		o Pathway	Co on Bathway	
Research Pathway	[] 128 hours com		Co-op Pathway Co-op Pathway [] 89 hours completed inclu	-
128 hours completed including: MAE 490, MAE 430, MAE 440,				
	Curriculum	· · · · · · · · · · · · · · · · · · ·	Work Semester (F	
MAE 441, Tech Elec, HSBS/HFA	[] Summer Interr		MAE 490, MAE 47	
MAE 49x, MAE 471, MAE 468,	[] Senior Design		MAE 468, Tech Elec (S	
MAE 480, Tech Elec	[] Degree Comple		MAE 488, MAE 430, N	
] Undergraduate Research Complete	[] Begin Career o	r Graduate School	MAE 441, HSBS/HFA (S	/
] Senior Design Complete			[] Experiential Learning com	nplete
[] Degree Complete			[] Decision on Industry	
[] Begin Career or Graduate School			or Graduate School	
	Milestor	ne Year-5		
			Co-op Pathway	Y
			[] 128 hours completed incl	uding:
			MAE 49x, Tech El	
			MAE 480 (Fall)	
			[] Senior Design Complete	
			[] Degree Complete	
			[] Begin Career or Graduate	School
			[] Begin Career or Graduate	501001
Required				

Recommended

Student A#		Course	Cr		Student Name (Last, First MI) Prerequisites, Corequisites and/or	Offered: F=Fall S=Sprin
Transfer or AP	Grade	Number	Hrs	Course Title	Prerequisites with Concurrency	M=Sumi
				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	FSN
				History, Social & Behavioral Scie	ences, Humaities & Fine Arts - 15 hours	
			3	HSBS	Choose 3 hours: History, Social or Behavior Science	FSN
			3	HFA	Choose 3 hours: Literature or Fine Art	FSN
			3		Choose 3 hour courses of HSBS/HFA that you have met prerequisites,	L
			3		from ARH, ARS*, CM, EH, ECN*, FL, GS,	
			3		GY, HY, MU, PHL, PSC, PY, SOC, WS	
				General Education Electives - 3	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		
		CE 271	3	Statics	PH 111, Prereq w/Con: MA 201	FSM
		ISE 321	3	Engineering Economy	Sophomore Standing	FSN
		MAE 310	3	Fluid Mechanics I	MA 238, MAE/CE 271 & (MAE 111 or CPE 112 or CHE 198)	FSN
		MAE 341	3	Thermodynamics I	MA 201, CH 121, CH 125, PH 112	FSN
Class has required la	ab section			Civil Engineering Option - 52 ho	urs	
		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	FSN
		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	FSN
		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	FSN
		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	FSN
<u> </u>		CE 422	3	Traffic Engineering Design	CE 321	S
		CE 441	3	Hydraulic Engineering Design	MAE 310	S
					MAE 241 Dress w/Corr MAE 210	F
		CE 449	3	Intro to Environmental Engineering	MAE 341, Prereq w/Con: MAE 310	F
		CE 449 CE 483	3 3	Intro to Environmental Engineering Reinforced Concrete Design	CE 380, CE 381	
				· · ·		F
		CE 483	3	Reinforced Concrete Design	CE 380, CE 381	- · ·
		CE 483 CE 484	3 3	Reinforced Concrete Design Steel Design	CE 380, CE 381 CE 381, MA 244	F
		CE 483 CE 484 CE 485	3 3 3	Reinforced Concrete Design Steel Design Foundation Engineering	CE 380, CE 381 CE 381, MA 244 CE 372, CE 483	F
		CE 483 CE 484 CE 485 CE 498	3 3 3 1	Reinforced Concrete Design Steel Design Foundation Engineering Civil Engineering Design I Civil Engineering Design II	CE 380, CE 381 CE 381, MA 244 CE 372, CE 483 CE 321, Prereq w/Con: CE 372 and CE 483, Senior Standing CE 483, CE 498 Coreq: CE 499L (FE Review)	F S F
		CE 483 CE 484 CE 485 CE 498 CE 499	3 3 3 1	Reinforced Concrete Design Steel Design Foundation Engineering Civil Engineering Design I Civil Engineering Design II Civil Engineering Electives - 6 ho	CE 380, CE 381 CE 381, MA 244 CE 372, CE 483 CE 321, Prereq w/Con: CE 372 and CE 483, Senior Standing CE 483, CE 498 Coreq: CE 499L (FE Review) DURS	F S F S
		CE 483 CE 484 CE 485 CE 498	3 3 1 2 3	Reinforced Concrete Design Steel Design Foundation Engineering Civil Engineering Design I Civil Engineering Design II Civil Engineering Electives - 6 ho Structural Analysis II	CE 380, CE 381 CE 381, MA 244 CE 372, CE 483 CE 321, Prereq w/Con: CE 372 and CE 483, Senior Standing CE 483, CE 498 Coreq: CE 499L (FE Review) CUTS CE 381	F S F S S
		CE 483 CE 484 CE 485 CE 498 CE 499 CE 499 CE 481 CE 487	3 3 1 2 3	Reinforced Concrete Design Steel Design Foundation Engineering Civil Engineering Design I Civil Engineering Design II Civil Engineering Electives - 6 ho Structural Analysis II Bridge Design	CE 380, CE 381 CE 381, MA 244 CE 372, CE 483 CE 321, Prereq w/Con: CE 372 and CE 483, Senior Standing CE 483, CE 498 Coreq: CE 499L (FE Review) DURS	F S F S S S
		CE 483 CE 484 CE 485 CE 498 CE 499 CE 481 CE 481 CE 487 CE 456	3 3 1 2 3 3 3 3	Reinforced Concrete Design Steel Design Foundation Engineering Civil Engineering Design I Civil Engineering Design II Civil Engineering Electives - 6 ho Structural Analysis II Bridge Design Water Quality Control Processes	CE 380, CE 381 CE 381, MA 244 CE 372, CE 483 CE 372, CE 483 CE 321, Prereq w/Con: CE 372 and CE 483, Senior Standing CE 483, CE 498 Coreq: CE 499L (FE Review) DUTS CE 381 CE 483 CE 483 CE 449	F S F S S S
		CE 483 CE 484 CE 485 CE 498 CE 499 CE 499 CE 481 CE 487 CE 456 CE 457	3 3 1 2 3 3 3 3	Reinforced Concrete Design Steel Design Foundation Engineering Civil Engineering Design I Civil Engineering Design II Civil Engineering Electives - 6 ho Structural Analysis II Bridge Design Water Quality Control Processes Hydrology	CE 380, CE 381 CE 381, MA 244 CE 372, CE 483 CE 321, Prereq w/Con: CE 372 and CE 483, Senior Standing CE 483, CE 498 Coreq: CE 499L (FE Review) DUTS CE 381 CE 483 CE 483 CE 449 MAE 310	F S S S S S S F
		CE 483 CE 484 CE 485 CE 498 CE 499 CE 499 CE 481 CE 487 CE 456 CE 457 CE 411	3 3 1 2 3 3 3 3 3 3	Reinforced Concrete Design Steel Design Foundation Engineering Civil Engineering Design I Civil Engineering Design II Civil Engineering Electives - 6 he Structural Analysis II Bridge Design Water Quality Control Processes Hydrology Intro to Geographical Information Systems	CE 380, CE 381 CE 381, MA 244 CE 372, CE 483 CE 372, CE 483 CE 321, Prereq w/Con: CE 372 and CE 483, Senior Standing CE 483, CE 498 Coreq: CE 499L (FE Review) CE 381 CE 483 CE 483 CE 449 MAE 310 Senior Standing or Instructor Approval	F F S S S S F F
		CE 483 CE 484 CE 485 CE 498 CE 499 CE 499 CE 481 CE 487 CE 456 CE 457	3 3 1 2 3 3 3 3 3 3	Reinforced Concrete Design Steel Design Foundation Engineering Civil Engineering Design I Civil Engineering Design II Civil Engineering Electives - 6 ho Structural Analysis II Bridge Design Water Quality Control Processes Hydrology	CE 380, CE 381 CE 381, MA 244 CE 372, CE 483 CE 321, Prereq w/Con: CE 372 and CE 483, Senior Standing CE 483, CE 498 Coreq: CE 499L (FE Review) DUTS CE 381 CE 483 CE 483 CE 449 MAE 310	F S S S S S S F

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)



Aerospace Engineering 2013-2014 Plan

	erospace Enginee	0		
Curriculum	Research	Internship	Со-ор	
Pathway	Pathway	Pathway	Pathway	
	Mileton	e Year-1		
35 hours completed including:		[] Meet with Faculty to	discuss pathway choices	
MA 171, CH 121/125, MAE 1	11,	[] Meet with Career De		
HSBS/HFA, FYE 101, EH 10	1		es Workshop on Resume	
MA 172, PH 111/114, MAE 2		[] Outline Resume		
HSBS/HFA, EH 102	,	[] Participate in Career	Fair	
11505/117A, Ell 102				
	Milester	ne Year-2		
[] CO have a second stand in shadin se	winestor			
[] 68 hours completed including: MA 201, PH 112/115, MA 24	4.4		Undergraduate research oppo	ortunities
	+4,		es Workshop on Interviews	
MAE 271, Free Elec		[] Professional Resume		
MA 238, MAE 284, Sci Elec	, ,	[] Attend Career Fair		
MAE 272, MAE 370		[] Co-op/Internship Off	er (Summer Start)	
Research Research	Interr	nship Iway	Pathiway	
		ne Year-3		
Research Pathway		o Pathway	Co-op Pathway	Y
[] 98 hours completed including:	[] 98 hours comp		[] Obtain Faculty Mentor	
MAE 341, EE 213, MAE 371,	Curriculum	-	[] 65 hours completed inclu	
MAE 310, HSBS/HFA	[] Summer Interr	nship	Work Semester (Sun	· · · · · · · · · · · · · · · · · · ·
MAE 420, MAE 311, MAE 488,			MAE 341, EE 213, MA	\Е 310,
ISE 321, HSBS/HFA			MAE 371, HSBS/HFA	(Fall)
[] Undergraduate Research			Work Semester (Sp	ring)
Attend JUMP Information Session			EE 420, MAE 31	1,
			ISE 321, HSBS/HFA (Su	ummer)
			[] 2 Semesters of Co-op	
	Milestor	ne Year-4		
Posoarch Pathway		o Pathway	Co on Bathway	
Research Pathway	[] 128 hours com		Co-op Pathway Co-op Pathway [] 89 hours completed inclu	-
128 hours completed including: MAE 490, MAE 430, MAE 440,				
	Curriculum	· · · · · · · · · · · · · · · · · · ·	Work Semester (F	
MAE 441, Tech Elec, HSBS/HFA	[] Summer Interr		MAE 490, MAE 47	
MAE 49x, MAE 471, MAE 468,	[] Senior Design		MAE 468, Tech Elec (S	
MAE 480, Tech Elec	[] Degree Comple		MAE 488, MAE 430, N	
] Undergraduate Research Complete	[] Begin Career o	r Graduate School	MAE 441, HSBS/HFA (S	/
] Senior Design Complete			[] Experiential Learning com	nplete
[] Degree Complete			[] Decision on Industry	
[] Begin Career or Graduate School			or Graduate School	
	Milestor	ne Year-5		
			Co-op Pathway	Y
			[] 128 hours completed incl	uding:
			MAE 49x, Tech El	
			MAE 480 (Fall)	
			[] Senior Design Complete	
			[] Degree Complete	
			[] Begin Career or Graduate	School
			[] Begin Career or Graduate	501001
Required				

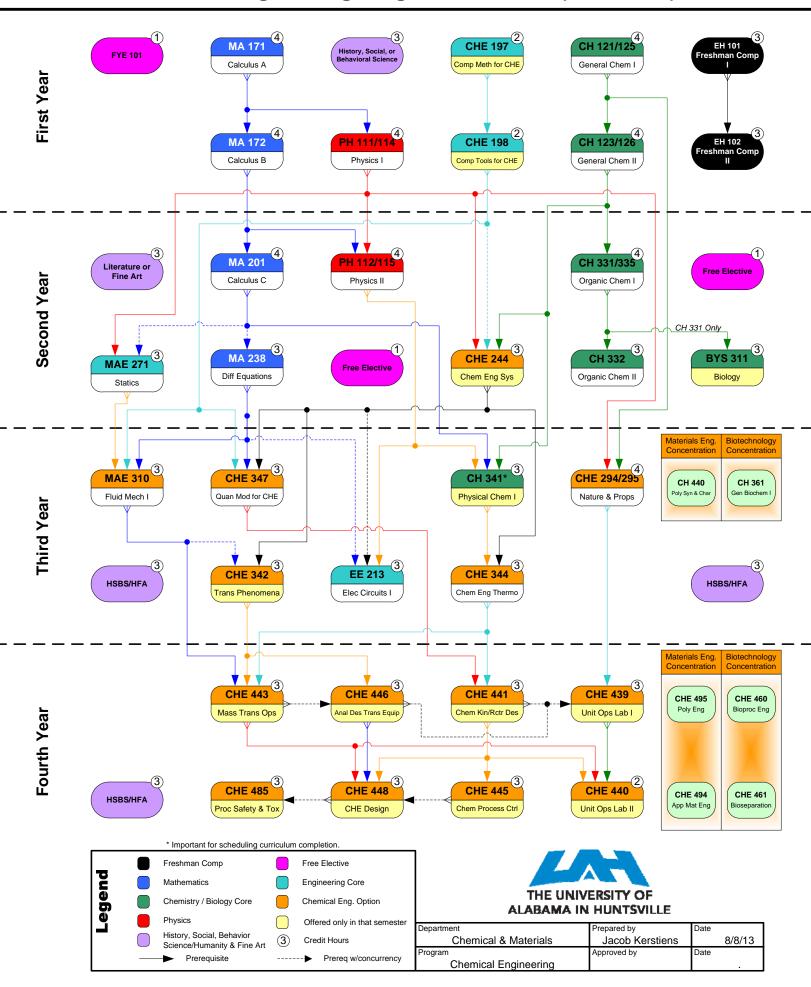
Recommended

Student A#	<u> </u>	Course	Cr		Student Name (Last, First MI) Prerequisites, Corequisites and/or	Offered: F=Fall S=Spring
Transfer or AP	Grade	Number		Course Title	Prerequisites with Concurrency	M=Summer
				English - 6 hours		
		EH 101	3	Freshman Composition I	Placement	FSM
		EH 102	3	Freshman Composition II	EH 101	FSM
				Mathematics - 15 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
				Chemistry - 18 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
		CH 123	3	General Chemistry II	CH 121, Prereq w/Con: CH 126	FSM
		CH 126	1	General Chemistry Lab II	Coreq: CH 123	FSM
		CH 331	3	Organic Chemistry I	CH 123, CH 126	FSM
		CH 335	1	Organic Chemistry Lab I	Prereq w/Con: CH 331	FSM
		CH 332	3	Organic Chemistry II	CH 331	FSM
		CH 341	3	Physical Chemistry I	CH 123, MA 201, PH 112	F
				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 - 3 hours		
		BYS 311	3	Intro to Molecular Biological Systems	CH 331	S
	-			History, Social & Behavioral Sci	ences, Humaities & Fine Arts - 15 hours	
	<u> </u>		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,	
			3		from ARH, ARS*, CM, EH, ECN*, FL, GS,	
			3		GY, HY, MU, PHL, PSC, PY, SOC, WS	
		1		General Education Electives - 3	hours	
	1	T	1		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.	
		1		Engineering Core - 12 hours	5 5	-
	r –	CHE 244	3	Intro to Chemical Engineering Systems	CH 123, PH 111, Prereq w/Con: CHE 198	S
		CHE 244 CHE 294	3	Nature & Properties of Materials		
		EE 213	3	Electrical Circuit Analysis I	CH 121, PH 111 PH 112. Prerea w/Con: MA 238 & (MA 244 or CHE 244)	FM FSM
		MAE 271	3	Statics	PH 112, Prered W/Con: MA 238 & (WA 244 OF CHE 244) PH 111, Prered W/Con: MA 201	FSM
		MAE 2/1	5			FOIVI
	-	aun 10-		Chemical Engineering Option - 4		-
	I	CHE 197 CHE 198	2	Intro to Chemical Engineering Processes Computational Tools for Chemical Engineers	Level II Math Placement or Coreq: MA 112	F
		100 ULU		u omputational Look for Chamical Engineers		S
				1 5	CHE 197, Prereq w/Con: MA 113	
		CHE 295	1	Nature & Properties of Materials Lab	Prereq w/Con: CHE 294	FM
		CHE 295 CHE 342	1 3	Nature & Properties of Materials Lab Transport Phenomena	Prereq w/Con: CHE 294 CHE 244, Prereq w/Con: MAE 310	FM S
		CHE 295 CHE 342 CHE 344	1 3 3	Nature & Properties of Materials Lab Transport Phenomena Chemical Engineering Thermodynamics	Prereq w/Con: CHE 294 CHE 244, Prereq w/Con: MAE 310 CHE 244, CH 341	FM S SM
		CHE 295 CHE 342 CHE 344 MAE 310	1 3 3 3	Nature & Properties of Materials Lab Transport Phenomena Chemical Engineering Thermodynamics Fluid Mechanics I	Prereq w/Con: CHE 294 CHE 244, Prereq w/Con: MAE 310 CHE 244, CH 341 MA 238, MAE/CE 271 & (MAE 111 or CPE 112 or CHE 198)	FM S SM FSM
		CHE 295 CHE 342 CHE 344 MAE 310 CHE 347	1 3 3 3 3	Nature & Properties of Materials Lab Transport Phenomena Chemical Engineering Thermodynamics Fluid Mechanics I Quantitative Modeling for Chemical Engrs	Prereq w/Con: CHE 294 CHE 244, Prereq w/Con: MAE 310 CHE 244, CH 341 MA 238, MAE/CE 271 & (MAE 111 or CPE 112 or CHE 198) CHE 198, CHE 244, MA 238	FM S SM FSM FM
		 CHE 295 CHE 342 CHE 344 MAE 310 CHE 347 CHE 439 	1 3 3 3 3 3 3	Nature & Properties of Materials Lab Transport Phenomena Chemical Engineering Thermodynamics Fluid Mechanics I Quantitative Modeling for Chemical Engrs Unit Operations Lab I	Prereq w/Con: CHE 294 CHE 244, Prereq w/Con: MAE 310 CHE 244, CH 341 MA 238, MAE/CE 271 & (MAE 111 or CPE 112 or CHE 198) CHE 198, CHE 244, MA 238 CHE 295, Prereq w/Con: CHE 441, CHE 446	FM S SM FSM FM F
		CHE 295 CHE 342 CHE 344 MAE 310 CHE 347 CHE 439 CHE 440	1 3 3 3 3 3 2	Nature & Properties of Materials Lab Transport Phenomena Chemical Engineering Thermodynamics Fluid Mechanics I Quantitative Modeling for Chemical Engrs Unit Operations Lab I Unit Operations Lab II	Prereq w/Con: CHE 294 CHE 244, Prereq w/Con: MAE 310 CHE 244, CH 341 MA 238, MAE/CE 271 & (MAE 111 or CPE 112 or CHE 198) CHE 198, CHE 244, MA 238 CHE 295, Prereq w/Con: CHE 441, CHE 446 CHE 439, CHE 441, CHE 443	FM S SM FSM FM F S
		CHE 295 CHE 342 CHE 344 MAE 310 CHE 347 CHE 439 CHE 440 CHE 441	1 3 3 3 3 3 2 3	Nature & Properties of Materials Lab Transport Phenomena Chemical Engineering Thermodynamics Fluid Mechanics I Quantitative Modeling for Chemical Engrs Unit Operations Lab I Unit Operations Lab II Chemical Kinetics & Reactor Design	Prereq w/Con: CHE 294 CHE 244, Prereq w/Con: MAE 310 CHE 244, CH 341 MA 238, MAE/CE 271 & (MAE 111 or CPE 112 or CHE 198) CHE 198, CHE 244, MA 238 CHE 295, Prereq w/Con: CHE 441, CHE 446 CHE 439, CHE 441, CHE 443 CHE 344, CHE 347	FM S SM FSM FM F F S F
		CHE 295 CHE 342 CHE 344 MAE 310 CHE 347 CHE 439 CHE 440 CHE 441 CHE 443	1 3 3 3 3 3 2 3 3 3	Nature & Properties of Materials Lab Transport Phenomena Chemical Engineering Thermodynamics Fluid Mechanics I Quantitative Modeling for Chemical Engrs Unit Operations Lab I Unit Operations Lab II Chemical Kinetics & Reactor Design Mass Transfer Operations	Prereq w/Con: CHE 294 CHE 244, Prereq w/Con: MAE 310 CHE 244, CH 341 MA 238, MAE/CE 271 & (MAE 111 or CPE 112 or CHE 198) CHE 198, CHE 244, MA 238 CHE 295, Prereq w/Con: CHE 441, CHE 446 CHE 349, CHE 441, CHE 443 CHE 344, CHE 347 CHE 342, CHE 344, MAE 310	FM S SM FSM FM F S F F F
		CHE 295 CHE 342 CHE 344 MAE 310 CHE 347 CHE 439 CHE 440 CHE 441 CHE 443 CHE 445	1 3 3 3 3 3 3 2 3 3 3 3	Nature & Properties of Materials Lab Transport Phenomena Chemical Engineering Thermodynamics Fluid Mechanics I Quantitative Modeling for Chemical Engrs Unit Operations Lab I Unit Operations Lab II Chemical Kinetics & Reactor Design Mass Transfer Operations Chemical Process Control	Prereq w/Con: CHE 294 CHE 244, Prereq w/Con: MAE 310 CHE 244, CH 341 MA 238, MAE/CE 271 & (MAE 111 or CPE 112 or CHE 198) CHE 198, CHE 244, MA 238 CHE 295, Prereq w/Con: CHE 441, CHE 446 CHE 394, CHE 341, CHE 443 CHE 344, CHE 347 CHE 342, CHE 344, MAE 310 CHE 441	FM S SM FSM FM F F F F F S
		CHE 295 CHE 342 CHE 344 MAE 310 CHE 347 CHE 439 CHE 440 CHE 441 CHE 443 CHE 445 CHE 446	1 3 3 3 3 3 2 3 3 3 3 3 3 3	Nature & Properties of Materials Lab Transport Phenomena Chemical Engineering Thermodynamics Fluid Mechanics I Quantitative Modeling for Chemical Engrs Unit Operations Lab I Unit Operations Lab II Chemical Kinetics & Reactor Design Mass Transfer Operations Chemical Process Control Analysis & Design of Transport Equipment	Prereq w/Con: CHE 294 CHE 244, Prereq w/Con: MAE 310 CHE 244, CH 341 MA 238, MAE/CE 271 & (MAE 111 or CPE 112 or CHE 198) CHE 198, CHE 244, MA 238 CHE 295, Prereq w/Con: CHE 441, CHE 446 CHE 342, CHE 341, CHE 443 CHE 342, CHE 344, MAE 310 CHE 441 CHE 342, CHE 344, MAE 310 CHE 441 CHE 342, Prereq w/Con: CHE 443	FM S SM FSM FM F S F F S F F
		CHE 295 CHE 342 CHE 344 MAE 310 CHE 347 CHE 439 CHE 440 CHE 441 CHE 445 CHE 446 CHE 448	1 3 3 3 3 3 2 3 3 3 3 3 3 3	Nature & Properties of Materials Lab Transport Phenomena Chemical Engineering Thermodynamics Fluid Mechanics I Quantitative Modeling for Chemical Engrs Unit Operations Lab I Unit Operations Lab II Chemical Kinetics & Reactor Design Mass Transfer Operations Chemical Process Control Analysis & Design of Transport Equipment Chemical Engineering Design	Prereq w/Con: CHE 294 CHE 244, Prereq w/Con: MAE 310 CHE 244, CH 341 MA 238, MAE/CE 271 & (MAE 111 or CPE 112 or CHE 198) CHE 198, CHE 244, MA 238 CHE 295, Prereq w/Con: CHE 441, CHE 446 CHE 342, CHE 341, CHE 443 CHE 342, CHE 344, MAE 310 CHE 441 CHE 342, CHE 344, MAE 310 CHE 441 CHE 342, Prereq w/Con: CHE 443 CHE 441, CHE 443, CHE 446, Prereq w/Con:CHE 445	FM S SM FSM FM F S F F F F F F S F S S S F S S S S
		CHE 295 CHE 342 CHE 344 MAE 310 CHE 347 CHE 439 CHE 440 CHE 441 CHE 443 CHE 445 CHE 446	1 3 3 3 3 3 2 3 3 3 3 3 3 3	Nature & Properties of Materials Lab Transport Phenomena Chemical Engineering Thermodynamics Fluid Mechanics I Quantitative Modeling for Chemical Engrs Unit Operations Lab I Unit Operations Lab II Chemical Kinetics & Reactor Design Mass Transfer Operations Chemical Process Control Analysis & Design of Transport Equipment Chemical Engineering Design Process Safety and Toxicology	Prereq w/Con: CHE 294 CHE 244, Prereq w/Con: MAE 310 CHE 244, CH 341 MA 238, MAE/CE 271 & (MAE 111 or CPE 112 or CHE 198) CHE 198, CHE 244, MA 238 CHE 295, Prereq w/Con: CHE 441, CHE 446 CHE 349, CHE 441, CHE 443 CHE 342, CHE 344, MAE 310 CHE 441 CHE 342, Prereq w/Con: CHE 443	FM S SM FSM FM F S F F S F F
		CHE 295 CHE 342 CHE 344 MAE 310 CHE 347 CHE 439 CHE 440 CHE 441 CHE 443 CHE 445 CHE 446 CHE 448 CHE 485	1 3 3 3 3 3 2 3 3 3 3 3 3 3 3 3 3	Nature & Properties of Materials Lab Transport Phenomena Chemical Engineering Thermodynamics Fluid Mechanics I Quantitative Modeling for Chemical Engrs Unit Operations Lab I Unit Operations Lab II Chemical Kinetics & Reactor Design Mass Transfer Operations Chemical Process Control Analysis & Design of Transport Equipment Chemical Engineering Design Process Safety and Toxicology Chemical Engineering Electives	Prereq w/Con: CHE 294 CHE 244, Prereq w/Con: MAE 310 CHE 244, CH 341 MA 238, MAE/CE 271 & (MAE 111 or CPE 112 or CHE 198) CHE 198, CHE 244, MA 238 CHE 295, Prereq w/Con: CHE 441, CHE 446 CHE 349, CHE 441, CHE 443 CHE 342, CHE 344, MAE 310 CHE 342, CHE 344, MAE 310 CHE 441 CHE 342, Prereq w/Con: CHE 443 CHE 342, Prereq w/Con: CHE 443 CHE 441, CHE 443, CHE 446, Prereq w/Con:CHE 445 Prereq w/Con: CHE 448 - 9 hours	FM S SM FSM F F S F F S S S
		CHE 295 CHE 342 CHE 344 MAE 310 CHE 347 CHE 439 CHE 440 CHE 441 CHE 443 CHE 445 CHE 446 CHE 448 CHE 485 CHE 485	1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Nature & Properties of Materials Lab Transport Phenomena Chemical Engineering Thermodynamics Fluid Mechanics I Quantitative Modeling for Chemical Engrs Unit Operations Lab I Unit Operations Lab II Chemical Kinetics & Reactor Design Mass Transfer Operations Chemical Process Control Analysis & Design of Transport Equipment Chemical Engineering Design Process Safety and Toxicology Chemical Biochemistry I	Prereq w/Con: CHE 294 CHE 244, Prereq w/Con: MAE 310 CHE 244, CH 341 MA 238, MAE/CE 271 & (MAE 111 or CPE 112 or CHE 198) CHE 198, CHE 244, MA 238 CHE 295, Prereq w/Con: CHE 441, CHE 446 CHE 295, Prereq w/Con: CHE 441, CHE 446 CHE 342, CHE 344, CHE 443 CHE 342, CHE 344, MAE 310 CHE 441 CHE 342, Prereq w/Con: CHE 443 CHE 342, Prereq w/Con: CHE 443 CHE 441, CHE 443, CHE 446, Prereq w/Con:CHE 445 Prereq w/Con: CHE 448 - 9 hours BYS 311, CH 332, CH 335	FM S FSM FSM F F F F S S S S S
		CHE 295 CHE 342 CHE 344 MAE 310 CHE 347 CHE 439 CHE 440 CHE 441 CHE 443 CHE 445 CHE 446 CHE 448 CHE 485 CHE 485	1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Nature & Properties of Materials Lab Transport Phenomena Chemical Engineering Thermodynamics Fluid Mechanics I Quantitative Modeling for Chemical Engrs Unit Operations Lab I Unit Operations Lab II Chemical Kinetics & Reactor Design Mass Transfer Operations Chemical Process Control Analysis & Design of Transport Equipment Chemical Engineering Design Process Safety and Toxicology Chemical Engineering Electives General Biochemistry I Introduction to Bioprocess Engineering	Prereq w/Con: CHE 294 CHE 244, Prereq w/Con: MAE 310 CHE 244, CH 341 MA 238, MAE/CE 271 & (MAE 111 or CPE 112 or CHE 198) CHE 198, CHE 244, MA 238 CHE 295, Prereq w/Con: CHE 441, CHE 446 CHE 295, Prereq w/Con: CHE 441, CHE 446 CHE 342, CHE 344, CHE 443 CHE 342, CHE 344, MAE 310 CHE 441 CHE 342, Prereq w/Con: CHE 443 CHE 342, Prereq w/Con: CHE 443 CHE 441, CHE 443, CHE 446, Prereq w/Con:CHE 445 Prereq w/Con: CHE 448 - 9 hours BYS 311, CH 332, CH 335 CH 361	FM S SM FSM F F S F F S S S S FSM F
		CHE 295 CHE 342 CHE 344 MAE 310 CHE 347 CHE 439 CHE 440 CHE 441 CHE 443 CHE 445 CHE 446 CHE 448 CHE 485 CHE 461 CHE 461	1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Nature & Properties of Materials Lab Transport Phenomena Chemical Engineering Thermodynamics Fluid Mechanics I Quantitative Modeling for Chemical Engrs Unit Operations Lab I Unit Operations Lab II Chemical Kinetics & Reactor Design Mass Transfer Operations Chemical Process Control Analysis & Design of Transport Equipment Chemical Engineering Design Process Safety and Toxicology Chemical Biochemistry I Introduction to Bioprocess Engineering Bioseparations	Prereq w/Con: CHE 294 CHE 244, Prereq w/Con: MAE 310 CHE 244, CH 341 MA 238, MAE/CE 271 & (MAE 111 or CPE 112 or CHE 198) CHE 198, CHE 244, MA 238 CHE 295, Prereq w/Con: CHE 441, CHE 446 CHE 295, Prereq w/Con: CHE 441, CHE 446 CHE 342, CHE 344, CHE 443 CHE 342, CHE 344, MAE 310 CHE 441 CHE 342, Prereq w/Con: CHE 443 CHE 342, Prereq w/Con: CHE 443 CHE 441, CHE 443, CHE 446, Prereq w/Con:CHE 445 Prereq w/Con: CHE 448 - 9 hours BYS 311, CH 332, CH 335	FM S FSM FSM F F F F S S S S S
		CHE 295 CHE 342 CHE 344 MAE 310 CHE 347 CHE 439 CHE 440 CHE 441 CHE 443 CHE 445 CHE 446 CHE 448 CHE 485 CHE 485	1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Nature & Properties of Materials Lab Transport Phenomena Chemical Engineering Thermodynamics Fluid Mechanics I Quantitative Modeling for Chemical Engrs Unit Operations Lab I Unit Operations Lab II Chemical Kinetics & Reactor Design Mass Transfer Operations Chemical Process Control Analysis & Design of Transport Equipment Chemical Engineering Design Process Safety and Toxicology Chemical Engineering Electives General Biochemistry I Introduction to Bioprocess Engineering	Prereq w/Con: CHE 294 CHE 244, Prereq w/Con: MAE 310 CHE 244, CH 341 MA 238, MAE/CE 271 & (MAE 111 or CPE 112 or CHE 198) CHE 198, CHE 244, MA 238 CHE 295, Prereq w/Con: CHE 441, CHE 446 CHE 295, Prereq w/Con: CHE 441, CHE 446 CHE 342, CHE 344, CHE 443 CHE 342, CHE 344, MAE 310 CHE 441 CHE 342, Prereq w/Con: CHE 443 CHE 342, Prereq w/Con: CHE 443 CHE 441, CHE 443, CHE 446, Prereq w/Con:CHE 445 Prereq w/Con: CHE 448 - 9 hours BYS 311, CH 332, CH 335 CH 361	FM S SM FSM F F S F F S S S S FSM F
		CHE 295 CHE 342 CHE 344 MAE 310 CHE 347 CHE 439 CHE 440 CHE 441 CHE 443 CHE 445 CHE 446 CHE 448 CHE 485 CHE 461 CHE 461	1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Nature & Properties of Materials Lab Transport Phenomena Chemical Engineering Thermodynamics Fluid Mechanics I Quantitative Modeling for Chemical Engrs Unit Operations Lab I Unit Operations Lab II Chemical Kinetics & Reactor Design Mass Transfer Operations Chemical Process Control Analysis & Design of Transport Equipment Chemical Engineering Design Process Safety and Toxicology Chemical Biochemistry I Introduction to Bioprocess Engineering Bioseparations	Prereq w/Con: CHE 294 CHE 244, Prereq w/Con: MAE 310 CHE 244, CH 341 MA 238, MAE/CE 271 & (MAE 111 or CPE 112 or CHE 198) CHE 198, CHE 244, MA 238 CHE 295, Prereq w/Con: CHE 441, CHE 446 CHE 349, CHE 441, CHE 443 CHE 342, CHE 347 CHE 342, CHE 344, MAE 310 CHE 441 CHE 342, Prereq w/Con: CHE 443 CHE 441, CHE 443, CHE 446, Prereq w/Con:CHE 445 Prereq w/Con: CHE 448 - 9 hours BYS 311, CH 332, CH 335 CH 361 CHE 460	FM S SM FSM F F F F S S S FSM F S

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

Select One Concentration

Chemical Engineering Program 2013/2014 (129 Hours)



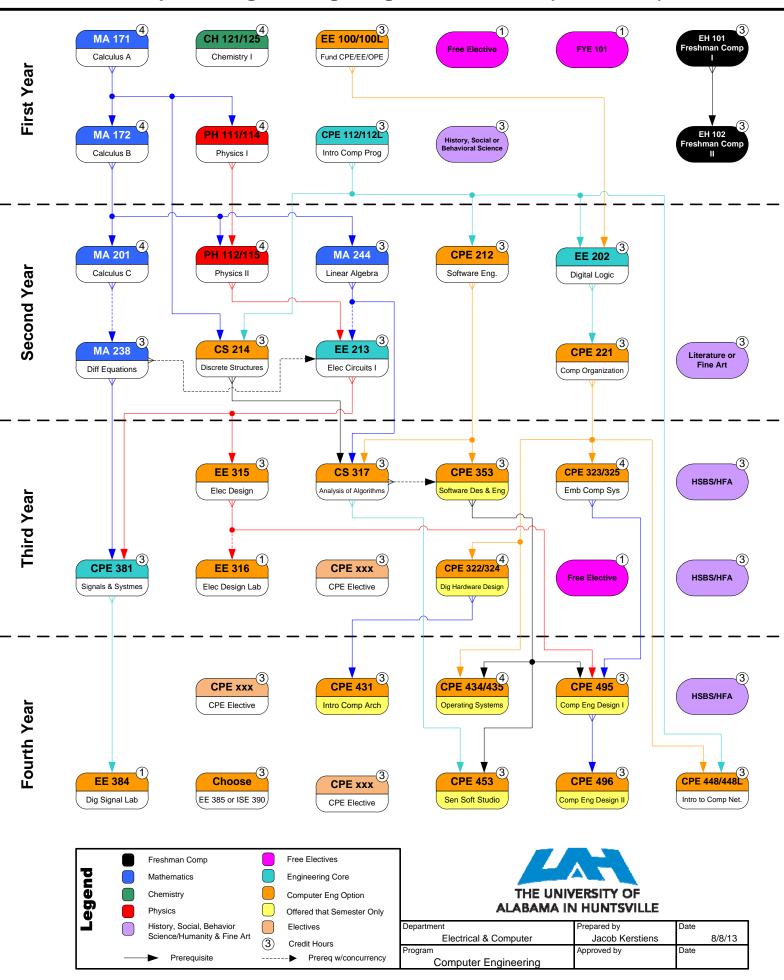
Chemical Engineering 2013-2014 Plan

			ing 2013-2014 Plai		
	riculum	Research	Internship		Со-ор
Pa	ithway	Pathway	Pathway		Pathway
		Mileton	e Year-1		
[] 34 hours completed including:					iscuss pathway choices
MA 171, CH 12	1/125,CHE 197,		[] Meet with Career	Deve	lopment
HSBS/HFA, F	/E 101, EH 101		[] Attend Career Ser	vices	Workshop on Resume
MA 172, PH 11	1/114, CHE 198,		[] Outline Resume		
CH 123/1	26, EH 102		[] Participate in Care	eer Fa	air
		Milestor	ne Year-2		
[] 64 hours completed including:				for l	Indergraduate research opportunities
	PH 112/115,				Workshop on Interviews
	5, HSBS/HFA		[] Professional Resul		
	332, MAE 271		[] Attend Career Fair		
	, CHE 244		[] Co-op/Internship		(Summer Start)
B13 311,	, CHL 244			oner	
Research	51	Interr Path	nship Iway		Patrinay
			× 2		
		Milestor			
Research Pathway			o Pathway	_	Co-op Pathway
[] 99 hours completed including:		[] 99 hours comp		l] Obtain Faculty Mentor
MAE 310, CHE 347, CH 343		Curriculum	· · · · · · · · · · · · · · · · · · ·]] 90 hours completed including:
CHE 294, CHE 295, CHE Con		[] Summer Interr	nship		Work Semester (Summer)
EE 213, CHE 342, CHE 344					CHE 347, CH 341, CHE 294,
HSBS/HFA, HSBS/HFA, Free I	Elec				CHE 295, CHE Conc 1 (Fall)
[] Undergraduate Research					Work Semester (Spring)
[] Attend JUMP Information Sess	ion				MAE 310, CHE 344,
					HSBS/HFA (Summer)
				[] 2 Semesters of Co-op
		Milestor	ne Year-4		
Research Pathway		Internship			Co-op Pathway
[] 128 hours completed including	<mark>7:</mark>	[] 128 hours com		ī] 100 hours completed including:
CHE 443, CHE 446, CHE 44		Curriculum		L	Work Semester (Fall)
CHE 439, CHE Conc 2		[] Summer Interr	·		CHE 342, EE 213, Free Elec,
CHE 485, CHE 448, CHE 44	5	[] Senior Design (HSBS/HFA, HSBS/HFA (Spring)
CHE 440, CHE Conc 3, HSBS/		[] Degree Comple			Work Semester (Summer)
[] Undergraduate Research Com		[] Begin Career o		Г] Experiential Learning complete
[] Senior Design Complete				L] Decision on Industry
[] Degree Complete				L	or Graduate School
[] Begin Career or Graduate Scho					or Graduate School
L J Degin Career of Graduate SCHO					
	<u> </u>	NA:1			
		Milestor	le fedf-5		Co on Datharray
					Co-op Pathway
				L] 129 hours completed including:
					CHE 433, CHE 446, CHE 441
				_	CHE 439, CHE Conc 2
					CHE 485, CHE 448, CHE 445,
I		7			CHE 440, HSBS/HFA, CHE Conc 3
	Required			[Senior Design Complete
Recor	nmended			[] Degree Complete
				[] Begin Career or Graduate School
		1/22	/2014		

Semester,	r	Course	Cr		Prerequisites, Corequisites and/or	Offered: F=Fall S=Spring
Transfer or AP	Grade	Number	Hrs		Prerequisites with Concurrency	M=Summ
		-		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		
	T	PH 111	3	General Physics w/Calculus I	MA 171	FSM
		PH 114	1	General Physics Lab I	Prereg w/Con: PH 111	FSM
	1	PH 112	3	General Physics w/Calculus II	MA 172, PH 111	FSM
	1	PH 115	1	General Physics Lab II	Prereq w/Con: PH 112	FSM
	-		-	· · ·	nces, Humaities & Fine Arts - 15 hours	
			3	HSBS	Choose 3 hours: History, Social or Behavior Science	FSM
		1	3	HFA	Choose 3 hours: Literature or Fine Art	FSM
		1	3			1 310
	┼───		3	1	Choose 3 hour courses of HSBS/HFA that you have met prerequisites, from ARH, ARS*, CM, EH, ECN*, FL, GS,	
			3		GY, HY, MU, PHL, PSC, PY, SOC, WS	
	<u> </u>	1	Ĩ	General Education Electives - 3 h	ours	1
		T	T	General Education Electives - 5 h		
					Choose up to 3 hours of electives (Ex. FYE 101): Any courses that you have met prerequisites,	
	<u> </u>				and are not remedial coursework for Engineering curriculum.	
<u> </u>	<u> </u>					1
Class has required l	ab section	-		Engineering Core - 12 hours		
	<u> </u>	CPE 112	3	Intro to Computer Programming in Engineering	MA 113, MA 115 or Level III Placement, Coreq: CPE 112L	FSM
	<u> </u>	EE 202	3	Intro to Digital Logic Design	CPE 112, EE 100	FSM
	<u> </u>	EE 213	3	Electrical Circuit Analysis I	PH 112, Prereq w/Con: MA 238 & (MA 244 or CHE 244)	FSM
	<u> </u>	CPE 381	3	Fundamentals of Signals & Sys for Comp Engrs	EE 213, MA 238	FS
			T	Computer Science - 6 hours		
	L	CS 214	3	Intro to Discrete Structures	CPE 112, MA 171	FSM
	<u> </u>	CS 317	3	Design & Analysis of Algorithms	CS 214, CPE 212, MA 244	FSM
Class has required l	ab section		-	Computer Engineering Option - 4	7 hours	
		EE 100	3	Fund of Computer, Electrical & Optical Eng	Prereq w/Con: MA 112, Coreq: EE 100L	FSM
		CPE 212	3	Fundamentals of Software Engineering	CPE 112	FS
		CPE 221	3	Computer Organization	EE 202	FSM
		CPE 322	3	Digital Hardware Design Fundamentals	CPE 221, Coreq: CPE 324	S
		CPE 324	1	Digital Hardware Design Lab	Coreq: CPE 322	S
		EE 315	3	Introduction to Electronic Analysis and Design	EE 213	FSM
		EE 316	1	Electronic Measurements & Devices Design Lab	Prereq w/Con: EE 315	FS
		CPE 323	3	Intro to Embedded Computer Systems	CPE 221, Coreq: CPE 325	FS
		CPE 325	1	Lab Component of Intro of CE 323	Coreq: CPE 323	FS
	1	CPE 353	3	Software Design & Engineering	CPE 212, Prereq w/Con: CS 317	F
			1	Digital Signal Processing Laboratory	CPE 381 or Prereq w/Con:EE 383	FS
		EE 384	-			FSM
		EE 384 EE 385	3	Random Signals and Noise	CPE 381 or EE 382	
				0 0 ,	CPE 381 or EE 382 Prereq w/Con: MA 201	FSM
		EE 385	3	Random Signals and Noise		_
		EE 385 ISE 390	3 3	Random Signals and Noise Probability & Engineering Statistics I	Prereq w/Con: MA 201	FSM
		EE 385 ISE 390 CPE 431	3 3 3	Random Signals and Noise Probability & Engineering Statistics I Intro to Computer Architecture	Prereq w/Con: MA 201 CPE 322, CPE 324	FSM F
		EE 385 ISE 390 CPE 431 CPE 434	3 3 3 3	Random Signals and Noise Probability & Engineering Statistics I Intro to Computer Architecture Operating Systems	Prereq w/Con: MA 201 CPE 322, CPE 324 CPE/EE 221, CPE 353, Coreq: CPE 435	FSM F F
		EE 385 ISE 390 CPE 431 CPE 434 CPE 435	3 3 3 3 1	Random Signals and Noise Probability & Engineering Statistics I Intro to Computer Architecture Operating Systems Operating Systems Lab	Prereq w/Con: MA 201 CPE 322, CPE 324 CPE/EE 221, CPE 353, Coreq: CPE 435 Coreq: CPE 434	FSM F F F
		EE 385 ISE 390 CPE 431 CPE 434 CPE 435 CPE 448	3 3 3 3 1 3	Random Signals and Noise Probability & Engineering Statistics I Intro to Computer Architecture Operating Systems Operating Systems Lab Introduction to Computer Networks	Prereq w/Con: MA 201 CPE 322, CPE 324 CPE/EE 221, CPE 353, Coreq: CPE 435 Coreq: CPE 434 CPE 112, CPE 221	FSM F F F FS
		EE 385 ISE 390 CPE 431 CPE 434 CPE 435 CPE 448 CPE 453	3 3 3 1 3 3 3	Random Signals and Noise Probability & Engineering Statistics I Intro to Computer Architecture Operating Systems Operating Systems Lab Introduction to Computer Networks Senior Software Studio	Prereq w/Con: MA 201 CPE 322, CPE 324 CPE/EE 221, CPE 353, Coreq: CPE 435 Coreq: CPE 434 CPE 112, CPE 221 CS 317, CPE 353	FSM F F F FS S
		EE 385 ISE 390 CPE 431 CPE 434 CPE 435 CPE 448 CPE 453 CPE 495	3 3 3 1 3 3 3 3 3	Random Signals and Noise Probability & Engineering Statistics I Intro to Computer Architecture Operating Systems Operating Systems Lab Introduction to Computer Networks Senior Software Studio Computer Engineering Design I Computer Engineering Design II	Prereq w/Con: MA 201 CPE 322, CPE 324 CPE/EE 221, CPE 353, Coreq: CPE 435 Coreq: CPE 434 CPE 112, CPE 221 CS 317, CPE 353 CPE 323, CPE 353, EE 315 CPE 495	FSM F F FS S F
		EE 385 ISE 390 CPE 431 CPE 434 CPE 435 CPE 448 CPE 453 CPE 495	3 3 3 1 3 3 3 3 3	Random Signals and Noise Probability & Engineering Statistics I Intro to Computer Architecture Operating Systems Operating Systems Lab Introduction to Computer Networks Senior Software Studio Computer Engineering Design I	Prereq w/Con: MA 201 CPE 322, CPE 324 CPE/EE 221, CPE 353, Coreq: CPE 435 Coreq: CPE 434 CPE 112, CPE 221 CS 317, CPE 353 CPE 323, CPE 353, EE 315 CPE 495	FSM F F FS S F
		EE 385 ISE 390 CPE 431 CPE 434 CPE 435 CPE 448 CPE 453 CPE 495	3 3 3 1 3 3 3 3 3	Random Signals and Noise Probability & Engineering Statistics I Intro to Computer Architecture Operating Systems Operating Systems Lab Introduction to Computer Networks Senior Software Studio Computer Engineering Design I Computer Engineering Design II	Prereq w/Con: MA 201 CPE 322, CPE 324 CPE/EE 221, CPE 353, Coreq: CPE 435 Coreq: CPE 434 CPE 112, CPE 221 CS 317, CPE 353 CPE 323, CPE 353, EE 315 CPE 495	FSM F F FS S F

All prerequisite classes must be completed with a "C" or higher grade. The Catalog is the final authority for all degree requirements. Updated: 7/11/2013

Computer Engineering Program 2013/2014 (128 Hours)



Computer Engineering 2013-2014 Plan

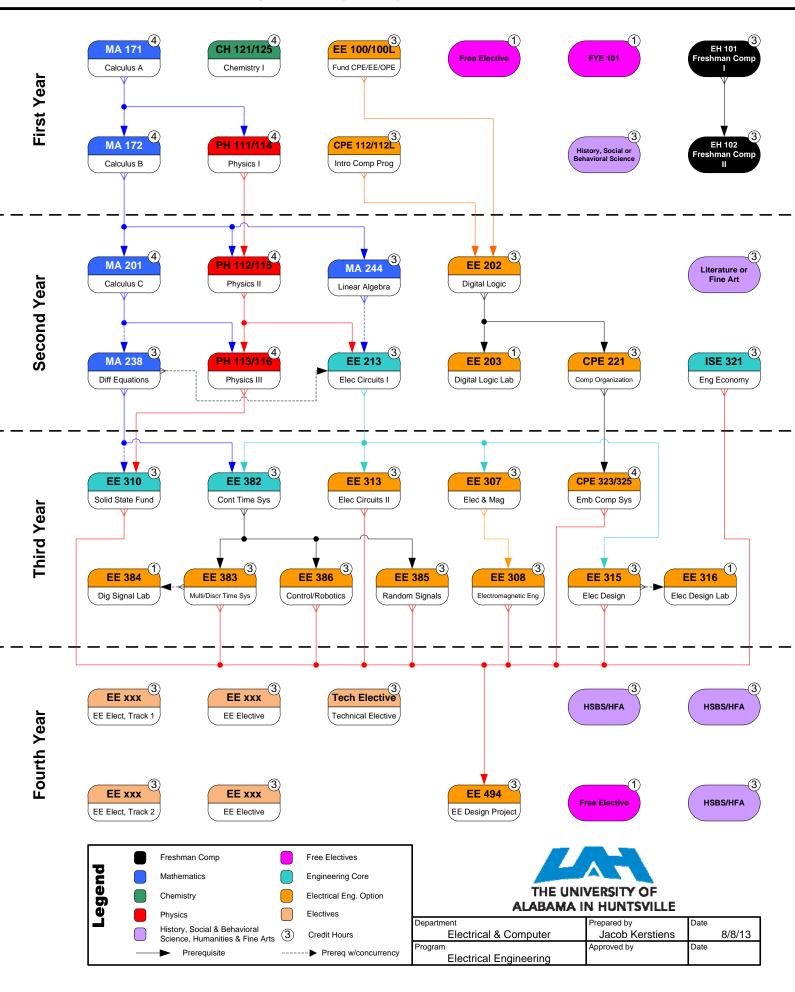
	.	Computer Engineer	0		-	
	Curriculum	Research			Со-ор	
	Pathway		Pathway		Pathway	
		Miletor	e Year-1			
[] 33 hours complete	ed including:		[] Meet with Facu	Ity to o	discuss pathway choic	es
	1A 171, CH 121/125, EE	100,	[] Meet with Care		· · ·	
	/HFA, FYE 101, EH 101, I				s Workshop on Resum	he
	A 172, PH 111/114, CPE		[] Outline Resume		s workshop on Result	
101		. 112,	[] Participate in Ca		air	
	HSBS/HFA, EH 102			areerr	dii	
		Milesto	ne Year-2			
[] 65 hours complete					Undergraduate resea	
M	<mark>A 201, PH 112/115, MA</mark>	. 244,			s Workshop on Intervi	iews
	EE 202, CPE 212		[] Professional Re	sume		
	MA 238, EE 213, CS 21	.4	[] Attend Career F	air		
	CPE 221, HSBS/HFA		[] Co-op/Internshi	ip Offe	er (Summer Start)	
	Research Research Painnal	Intern Path	nship hway		Patinway	
		Milosto	ne Year-3			
Deservel	Dethurse				C	Dethurse
	Pathway		p Pathway			Pathway
[] 96 hours complete	<u> </u>	[] 96 hours comp			[] Obtain Faculty Me	
	17, CPE 353,	Curriculum			[] 90 hours complet	
CPE 323, CPE 3		[] Summer Intern	nship			ster (Summer)
CPE 381, EE 316,	CPE 322,CPE 324,				CPE 381, CS	317, CPE 353,
CPE Elec, Free I	Elec, HSBS/HFA				CPE 323, CI	PE 325 (Fall)
[] Undergraduate Re	esearch				Work Seme	ester (Spring)
[] Attend JUMP Infor	rmation Session				EE 315, EE 3	385/ISE 390,
					HSBS/HFA, HSB	S/HFA (Summer)
					[] 2 Semesters of Co	
		Milesto	ne Year-4			
Desearch	Dethurou				Co. on I	Dethurou
	Pathway		p Pathway			Pathway
[] 128 hours comple		[] 128 hours com			[] 103 hours comple	
CPE 495, CPE		Curriculum	· · · · · · · · · · · · · · · · · · ·			nester (Fall)
	Elec, HSBS/HFA	[] Summer Inter				324, CPE Elec,
CPE 496, CPE		[] Senior Design				E 453 (Spring)
	<mark>;, EE 385/ISE 390</mark>	[] Degree Compl				ster (Summer)
[] Undergraduate Re	-	[] Begin Career c	r Graduate School		[] Experiential Learn	U 1
[] Senior Design Com	nplete				[] Decision on Indus	stry
[] Degree Complete					or Graduate Sc	chool
[] Begin Career or Gr	raduate School					
		Milesto	ne Year-5			
		TAILE310			Co on I	Pathway
					[] 128 hours comple	
						435, CPE 431,
						CPE 495
						Elec, CPE 384,
						/HFA, Free Elec
	Required				[] Senior Design Cor	
	Decomposited				[] Degree Complete	
	Recommended				[] Begin Career or G	raduate School
		1/22	/2014			

Semester,	r	Course	Cr		Student Name (Last, First MI) Prerequisites, Corequisites and/or	Offered: F=Fall S=Spring
Transfer or AP	Grade	Number	Hrs	Course Title	Prerequisites with Concurrency	M=Summe
	T			English - 6 hours		
		EH 101		Freshman Composition I	Placement	FSM
		EH 102	3	Freshman Composition II	EH 101	FSM
	T			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		<u> </u>
		CH 121		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 - 12 hours		<u> </u>
		PH 111	3	General Physics w/Calculus I	MA 171	FSM
		PH 114	1	General Physics Lab I	Prereq w/Con: PH 111	FSM
	ł	PH 112	3	General Physics w/Calculus II	MA 172, PH 111	FSM
		PH 115 PH 113	1	General Physics Lab II	Prereq w/Con: PH 112	FSM
		PH 113 PH 116	3	General Physics w/Calculus III General Physics Lab III	MA 201, PH 112 Prereq w/Con: PH 113	FSM
		PH 110	<u> </u>	,		FSM
			3		nces, Humaities & Fine Arts - 15 hours	ГСМ
		'	3	HSBS	Choose 3 hours: History, Social or Behavior Science	FSM
			3	HFA	Choose 3 hours: Literature or Fine Art	FSM
		<u> </u>	3		Choose 3 hour courses of HSBS/HFA that you have met prerequisites, from ARH, ARS*, CM, EH, ECN*, FL, GS,	
		┢────	3		GY, HY, MU, PHL, PSC, PY, SOC, WS	
				General Education Electives - 3 h		
	<u> </u>		—	General Education Electives - 5 II		1
		┢────	┼──		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.	
	I		<u> </u>	Engineering Core - 12 hours		
	<u> </u>	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
		EE 310	3	Solid State Fundamentals	PH 113, Prereq w/Con: MA 238	FS
		EE 382		Analytical Meth for Continuous Time Sys	EE 213, MA 238	FSM
ass has required I	ah section		-	Electrical Engineering Option - 43		1 510
		EE 100				
		10 100	3	Fund of Computer Electrical & Ontical Eng	Proroa w/(con; MA(112)) (coroa: FE 100)	FSM
		CPE 112	3	Fund of Computer, Electrical & Optical Eng	Prereq w/Con: MA 112, Coreq: EE 100L MA 113, MA 115 or Level III Placement, Coreg: CPE 112	FSM FSM
		CPE 112 EE 202	3	Intro to Computer Programming in Engineering	MA 113, MA 115 or Level III Placement, Coreq: CPE 112L	FSM
		CPE 112 EE 202 EE 203		Intro to Computer Programming in Engineering Intro to Digital Logic Design	MA 113, MA 115 or Level III Placement, Coreq: CPE 112L CPE 112, EE 100	
		EE 202	3 3	Intro to Computer Programming in Engineering	MA 113, MA 115 or Level III Placement, Coreq: CPE 112L	FSM FSM
		EE 202 EE 203	3 3 1 3	Intro to Computer Programming in Engineering Intro to Digital Logic Design Digital Logic Design Lab	MA 113, MA 115 or Level III Placement, Coreq: CPE 112L CPE 112, EE 100 EE 202	FSM FSM FSM
		EE 202 EE 203 CPE 221	3 3 1 3 3 3	Intro to Computer Programming in Engineering Intro to Digital Logic Design Digital Logic Design Lab Computer Organization	MA 113, MA 115 or Level III Placement, Coreq: CPE 112L CPE 112, EE 100 EE 202 EE 202	FSM FSM FSM FSM
		EE 202 EE 203 CPE 221 EE 307	3 3 1 3 3 3	Intro to Computer Programming in Engineering Intro to Digital Logic Design Digital Logic Design Lab Computer Organization Electricity and Magnetism	MA 113, MA 115 or Level III Placement, Coreq: CPE 112L CPE 112, EE 100 EE 202 EE 202 EE 213	FSM FSM FSM FSM FSM
		EE 202 EE 203 CPE 221 EE 307 EE 308	3 3 1 3 3 3 3	Intro to Computer Programming in Engineering Intro to Digital Logic Design Digital Logic Design Lab Computer Organization Electricity and Magnetism Electromagnetic Engineering	MA 113, MA 115 or Level III Placement, Coreq: CPE 112L CPE 112, EE 100 EE 202 EE 202 EE 213 EE 307	FSM FSM FSM FSM FSM FS
		EE 202 EE 203 CPE 221 EE 307 EE 308 EE 313	3 3 1 3 3 3 3 3	Intro to Computer Programming in Engineering Intro to Digital Logic Design Digital Logic Design Lab Computer Organization Electricity and Magnetism Electromagnetic Engineering Electrical Circuit Analysis II	MA 113, MA 115 or Level III Placement, Coreq: CPE 112L CPE 112, EE 100 EE 202 EE 202 EE 213 EE 307 EE 213	FSM FSM FSM FSM FSM FS FSM
		EE 202 EE 203 CPE 221 EE 307 EE 308 EE 313 EE 315	3 3 1 3 3 3 3 3 3	Intro to Computer Programming in Engineering Intro to Digital Logic Design Digital Logic Design Lab Computer Organization Electricity and Magnetism Electromagnetic Engineering Electrical Circuit Analysis II Introduction to Electronic Analysis and Design	MA 113, MA 115 or Level III Placement, Coreq: CPE 112L CPE 112, EE 100 EE 202 EE 202 EE 213 EE 307 EE 213 EE 213 EE 213	FSM FSM FSM FSM FSM FSM FSM FSM
		EE 202 EE 203 CPE 221 EE 307 EE 313 EE 315 EE 316	3 3 1 3 3 3 3 3 1	Intro to Computer Programming in Engineering Intro to Digital Logic Design Digital Logic Design Lab Computer Organization Electricity and Magnetism Electromagnetic Engineering Electrical Circuit Analysis II Introduction to Electronic Analysis and Design Electronic Measurements & Devices Design Lab	MA 113, MA 115 or Level III Placement, Coreq: CPE 112L CPE 112, EE 100 EE 202 EE 202 EE 213 EE 307 EE 213 EE 213 EE 213 Prereq w/Con: EE 315	FSM FSM FSM FSM FSM FSM FSM FSM FSM FS
		EE 202 EE 203 CPE 221 EE 307 EE 313 EE 315 EE 316 CPE 323	3 3 1 3 3 3 3 3 1 3 3	Intro to Computer Programming in Engineering Intro to Digital Logic Design Digital Logic Design Lab Computer Organization Electricity and Magnetism Electromagnetic Engineering Electromagnetic Engineering Electrical Circuit Analysis II Introduction to Electronic Analysis and Design Electronic Measurements & Devices Design Lab Intro to Embedded Computer Systems	MA 113, MA 115 or Level III Placement, Coreq: CPE 112L CPE 112, EE 100 EE 202 EE 202 EE 213 EE 307 EE 213 EE 213 EE 213 Prereq w/Con: EE 315 CPE 221, Coreq: CPE 325	FSM FSM FSM FSM FSM FSM FSM FSM FSM FS FS
		EE 202 EE 203 CPE 221 EE 307 EE 308 EE 313 EE 315 EE 316 CPE 323 CPE 325	3 3 1 3 3 3 3 3 1 3 1 3 1	Intro to Computer Programming in Engineering Intro to Digital Logic Design Digital Logic Design Lab Computer Organization Electricity and Magnetism Electromagnetic Engineering Electromagnetic Engineering Electrical Circuit Analysis II Introduction to Electronic Analysis and Design Electronic Measurements & Devices Design Lab Intro to Embedded Computer Systems Lab Component of Intro of CE 323	MA 113, MA 115 or Level III Placement, Coreq: CPE 112L CPE 112, EE 100 EE 202 EE 202 EE 213 EE 307 EE 213 EE 213 EE 213 Prereq w/Con: EE 315 CPE 221, Coreq: CPE 325 Coreq: CPE 323	FSM FSM FSM FSM FSM FSM FSM FSM FSS FS FS FS FS
		EE 202 EE 203 CPE 221 EE 307 EE 308 EE 313 EE 315 EE 316 CPE 323 CPE 325 EE 383	3 3 1 3 3 3 3 3 1 3 1 3 1 1 3 1	Intro to Computer Programming in Engineering Intro to Digital Logic Design Digital Logic Design Lab Computer Organization Electricity and Magnetism Electromagnetic Engineering Electromagnetic Engineering Electronic Orcuit Analysis II Introduction to Electronic Analysis and Design Electronic Measurements & Devices Design Lab Intro to Embedded Computer Systems Lab Component of Intro of CE 323 Analytical Meth for Mult and Discr Time Sys	MA 113, MA 115 or Level III Placement, Coreq: CPE 112L CPE 112, EE 100 EE 202 EE 202 EE 213 EE 213 EE 307 EE 213 EE 213 Prereq w/Con: EE 315 CPE 221, Coreq: CPE 325 Coreq: CPE 323 EE 382	FSM FSM FSM FSM FSM FSM FSM FSM FSS FS FS FSM
		EE 202 EE 203 CPE 221 EE 307 EE 308 EE 313 EE 315 EE 316 CPE 323 CPE 323 EE 383 EE 384	3 3 1 3 3 3 3 3 1 3 1 3 1 1 3 1	Intro to Computer Programming in Engineering Intro to Digital Logic Design Digital Logic Design Lab Computer Organization Electricity and Magnetism Electromagnetic Engineering Electromagnetic Engineering Electronic Analysis II Introduction to Electronic Analysis and Design Electronic Measurements & Devices Design Lab Intro to Embedded Computer Systems Lab Component of Intro of CE 323 Analytical Meth for Mult and Discr Time Sys Digital Signal Processing Laboratory	MA 113, MA 115 or Level III Placement, Coreq: CPE 112L CPE 112, EE 100 EE 202 EE 202 EE 213 EE 213 EE 213 EE 213 EE 213 Prereq w/Con: EE 315 CPE 221, Coreq: CPE 325 Coreq: CPE 323 EE 382 CPE 381 or Prereq w/Con:EE 383	FSM FSM FSM FSM FSM FSM FSM FSM FS FS FS FS FS FS FS
		EE 202 EE 203 CPE 221 EE 307 EE 308 EE 313 EE 315 EE 316 CPE 323 CPE 323 EE 383 EE 384 EE 385	3 3 1 3 3 3 3 3 1 3 1 3 1 3 1 3 1 3	Intro to Computer Programming in Engineering Intro to Digital Logic Design Digital Logic Design Lab Computer Organization Electricity and Magnetism Electromagnetic Engineering Electrical Circuit Analysis II Introduction to Electronic Analysis and Design Electronic Measurements & Devices Design Lab Intro to Embedded Computer Systems Lab Component of Intro of CE 323 Analytical Meth for Mult and Discr Time Sys Digital Signal Processing Laboratory Random Signals and Noise	MA 113, MA 115 or Level III Placement, Coreq: CPE 112L CPE 112, EE 100 EE 202 EE 202 EE 213 EE 307 EE 213 EE 213 Prereq w/Con: EE 315 CPE 221, Coreq: CPE 325 Coreq: CPE 323 EE 382 CPE 381 or Prereq w/Con:EE 383 CPE 381 or Prereq w/Con:EE 383	FSM FSM FSM FSM FSM FSM FSM FSM FS FS FS FSM FSM
		EE 202 EE 203 CPE 221 EE 307 EE 313 EE 313 EE 316 CPE 323 CPE 323 EE 383 EE 384 EE 385 EE 386	3 3 1 3 3 3 3 3 1 1 3 1 3 1 3 3 3	Intro to Computer Programming in Engineering Intro to Digital Logic Design Digital Logic Design Lab Computer Organization Electricity and Magnetism Electromagnetic Engineering Electrical Circuit Analysis II Introduction to Electronic Analysis and Design Electronic Measurements & Devices Design Lab Intro to Embedded Computer Systems Lab Component of Intro of CE 323 Analytical Meth for Mult and Discr Time Sys Digital Signal Processing Laboratory Random Signals and Noise Introduction to Control and Robotic Systems	MA 113, MA 115 or Level III Placement, Coreq: CPE 112L CPE 112, EE 100 EE 202 EE 202 EE 213 EE 307 EE 213 EE 213 Prereq w/Con: EE 315 CPE 221, Coreq: CPE 325 Coreq: CPE 323 EE 382 CPE 381 or Prereq w/Con:EE 383 CPE 381 or Prereq w/Con:EE 383 CPE 381 or EE 382 CPE 381 or EE 382 EE 308, EE 310, EE 315, EE 383, EE 385, EE 386, CPE 323, ISE 321	FSM FSM FSM FSM FSM FS FSM FSM FS FSM FSM
		EE 202 EE 203 CPE 221 EE 307 EE 313 EE 313 EE 316 CPE 323 CPE 323 EE 383 EE 384 EE 385 EE 386	3 3 1 3 3 3 3 3 1 1 3 1 3 1 3 3 3	Intro to Computer Programming in Engineering Intro to Digital Logic Design Digital Logic Design Lab Computer Organization Electricity and Magnetism Electromagnetic Engineering Electrical Circuit Analysis II Introduction to Electronic Analysis and Design Electronic Measurements & Devices Design Lab Intro to Embedded Computer Systems Lab Component of Intro of CE 323 Analytical Meth for Mult and Discr Time Sys Digital Signal Processing Laboratory Random Signals and Noise Introduction to Control and Robotic Systems EE Design Projects	MA 113, MA 115 or Level III Placement, Coreq: CPE 112L CPE 112, EE 100 EE 202 EE 202 EE 213 EE 307 EE 213 EE 213 Prereq w/Con: EE 315 CPE 221, Coreq: CPE 325 Coreq: CPE 323 EE 382 CPE 381 or Prereq w/Con:EE 383 CPE 381 or Prereq w/Con:EE 383 CPE 381 or EE 382 CPE 381 or EE 382 EE 308, EE 310, EE 315, EE 383, EE 385, EE 386, CPE 323, ISE 321	FSM FSM FSM FSM FSM FS FSM FSM FS FSM FSM
		EE 202 EE 203 CPE 221 EE 307 EE 313 EE 313 EE 316 CPE 323 CPE 323 EE 383 EE 384 EE 385 EE 386	3 3 1 3 3 3 3 3 1 3 1 3 3 1 3 3 3 3 3	Intro to Computer Programming in Engineering Intro to Digital Logic Design Digital Logic Design Lab Computer Organization Electricity and Magnetism Electromagnetic Engineering Electrical Circuit Analysis II Introduction to Electronic Analysis and Design Electronic Measurements & Devices Design Lab Intro to Embedded Computer Systems Lab Component of Intro of CE 323 Analytical Meth for Mult and Discr Time Sys Digital Signal Processing Laboratory Random Signals and Noise Introduction to Control and Robotic Systems EE Design Projects Electrical Engineering Electives -	MA 113, MA 115 or Level III Placement, Coreq: CPE 112L CPE 112, EE 100 EE 202 EE 202 EE 213 EE 307 EE 213 EE 213 Prereq w/Con: EE 315 CPE 221, Coreq: CPE 325 Coreq: CPE 323 EE 382 CPE 381 or Prereq w/Con:EE 383 CPE 381 or FE 382 CPE 381 or EE 382 CPE 381 or EE 382 EE 308, EE 310, EE 315, EE 383, EE 385, EE 386, CPE 323, ISE 321 12 hours	FSM FSM FSM FSM FSM FS FSM FSM FS FSM FSM
		EE 202 EE 203 CPE 221 EE 307 EE 313 EE 313 EE 316 CPE 323 CPE 323 EE 383 EE 384 EE 385 EE 386	3 3 1 3 3 3 3 3 1 3 3 1 3 3 3 3 3 3 3 3	Intro to Computer Programming in Engineering Intro to Digital Logic Design Digital Logic Design Lab Computer Organization Electricity and Magnetism Electromagnetic Engineering Electrical Circuit Analysis II Introduction to Electronic Analysis and Design Electronic Measurements & Devices Design Lab Intro to Embedded Computer Systems Lab Component of Intro of CE 323 Analytical Meth for Mult and Discr Time Sys Digital Signal Processing Laboratory Random Signals and Noise Introduction to Control and Robotic Systems EE Design Projects Electrical Engineering Electives - T1	MA 113, MA 115 or Level III Placement, Coreq: CPE 112L CPE 112, EE 100 EE 202 EE 202 EE 213 EE 307 EE 213 EE 213 EE 213 Prereq w/Con: EE 315 CPE 221, Coreq: CPE 325 Coreq: CPE 323 EE 382 CPE 381 or Prereq w/Con:EE 383 CPE 381 or FE 382 CPE 381 or EE 382 CPE 381 or EE 382 EE 308, EE 310, EE 315, EE 383, EE 385, EE 386, CPE 323, ISE 321 12 hours Track:	FSM FSM FSM FSM FSM FS FSM FSM FS FSM FSM
		EE 202 EE 203 CPE 221 EE 307 EE 313 EE 313 EE 316 CPE 323 CPE 323 EE 383 EE 384 EE 385 EE 386	3 3 1 3 3 3 3 3 1 3 1 3 1 3 3 3 3 3 3 3	Intro to Computer Programming in Engineering Intro to Digital Logic Design Digital Logic Design Lab Computer Organization Electricity and Magnetism Electromagnetic Engineering Electrical Circuit Analysis II Introduction to Electronic Analysis and Design Electronic Measurements & Devices Design Lab Intro to Embedded Computer Systems Lab Component of Intro of CE 323 Analytical Meth for Mult and Discr Time Sys Digital Signal Processing Laboratory Random Signals and Noise Introduction to Control and Robotic Systems EE Design Projects Electrical Engineering Electives - T1	MA 113, MA 115 or Level III Placement, Coreq: CPE 112L CPE 112, EE 100 EE 202 EE 202 EE 213 EE 307 EE 213 EE 213 Prereq w/Con: EE 315 CPE 221, Coreq: CPE 325 Coreq: CPE 323 EE 382 CPE 381 or Prereq w/Con:EE 383 CPE 381 or EE 382 CPE 381 or EE 382 CPE 381 or EE 382 CPE 381 or EE 382 EE 308, EE 310, EE 315, EE 383, EE 385, EE 386, CPE 323, ISE 321 12 hours Track:	FSM FSM FSM FSM FSM FS FSM FSM FS FSM FSM

All prerequisite classes must be completed with a "C" or higher grade.

The Catalog is the final authority for all degree requirements.

Electrical Engineering Program 2013/2014 (128 Hours)



Electrical Engineering 2013-2014 Plan

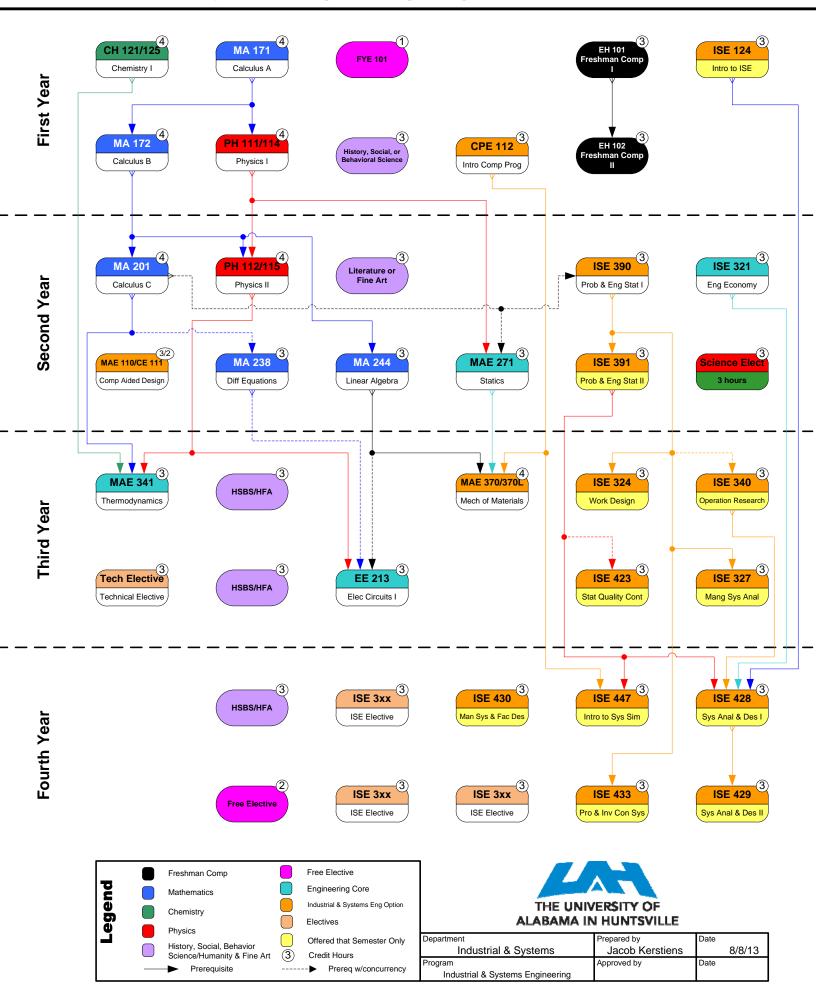
		ing 2013-2014 Plan		
Curriculum	Research	Internship	Со-ор	
Pathway	Pathway	Pathway	Pathway	
	Mileton	e Year-1		
[] 33 hours completed including:		[] Meet with Faculty t	to discuss pathway choic	es
MA 171, CH 121/125, EE 100		[] Meet with Career D		
HSBS/HFA, FYE 101, EH 101, Free	·		ices Workshop on Resun	he
MA 172, PH 111/114, CPE 11		[] Outline Resume		
HSBS/HFA, EH 102	∠,	[] Participate in Caree	ar Eair	
	5 A'I - I	× 0		
		ne Year-2	с., <u>к</u>	
[] 67 hours completed including:			f <mark>or Undergraduate resea</mark>	
MA 201, PH 112/115, MA 24	4,		ices Workshop on Interv	IEWS
EE 202, HSBS/HFA		[] Professional Resum	ie	
MA 238, PH 113/116, EE 213	,	[] Attend Career Fair		
CPE 221, EE 203, ISE 321		[] Co-op/Internship O	offer (Summer Start)	
Research	Intern Path	aship way	Patitiway	
		V 2		-
	Mileston			
Research Pathway	Internship			Pathway
[] 100 hours completed including:	[] 100 hours com		[] Obtain Faculty Mo	
EE 310, EE 382, EE 313,	Curriculum	-	[] 96 hours complet	
EE 307, CPE 323, CPE 325	[] Summer Intern	nship		ster (Summer)
EE 315, EE 383, EE 386,				382, EE 313,
EE 385, EE 308, EE 384, EE 316			EE 307, CPE 32	3, CPE 325 (Fall)
[] Undergraduate Research				ester (Spring)
[] Attend JUMP Information Session			EE 315, EE	383, EE 386,
			EE 385, EE 3	16 (Summer)
			[] 2 Semesters of Co	о-ор
	Mileston	ne Year-4		
Research Pathway	Internship	o Pathway	Со-ор	Pathway
] 128 hours completed including:	[] 128 hours com		[] 112 hours comple	eted including:
EE Track 1, EE Elec, Tech Elec,	Curriculum	Pathway		nester (Fall)
HSBS/HFA, HSBS/HFA	[] Summer Intern	•		, EE Elec, EE Elec
EE Track 2, EE Elec, EE 494,	[] Senior Design (3S/HFA (Spring)
HSBS/HFA, Free Elec	[] Degree Comple			ster (Summer)
[] Undergraduate Research Complete	[] Begin Career o		[] Experiential Learn	
		Graduale School	[] Decision on Indus	- ·
Senior Design Complete				
Degree Complete			or Graduate So	.11001
[] Begin Career or Graduate School				
	Mileston	ie rear-5		Dathway
			-	Pathway
			[] 128 hours comple	
				Elec, EE Elec,
				ree Elec (Fall)
			[] Senior Design Cor	
			[] Degree Complete	
			[] Begin Career or G	raduate School
Required				
Required				

Recommended

Transfer or Gr Transfer or 1 1 1 <th>EH EH MA MA MA MA MA CH CH CH CH PH PH</th> <th>umber I 101 I 102 I 101 I 102 I 101 I 102 I 102 I</th> <th>Hrs 3 3 3 4 4 4 4 4 4 4 3 3 3 1 3 3 1 1 3 3 1 1 3 1 1 3 1 1</th> <th>Course Title English - 6 hours Freshman Composition I Freshman Composition II Mathematics - 18 hours Calculus A Calculus A Calculus B Calculus C Applied Differential Equations Introduction to Linear Algebra Chemistry - 4 hours General Chemistry I General Chemistry Lab I Physics - 8 hours General Physics w/Calculus I General Physics Lab I General Physics Lab I General Physics Lab I General Physics Lab I</th> <th>Prerequisites with Concurrency Placement EH 101 MA 113 or MA 115 or Level III Placement MA 111 MA 172 Prereq w/Con: MA 201 MA 172 Plcmt or CH 101, MA 113 or 115, Prereq w/Con: MA 171, Coreq: CH 125 Coreq: CH 121 MA 171 a a for a public</th> <th>M=Summ FSM FSM FSM FSM FSM FSM FSM FSM FSM FSM</th>	EH EH MA MA MA MA MA CH CH CH CH PH PH	umber I 101 I 102 I 101 I 102 I 101 I 102 I	Hrs 3 3 3 4 4 4 4 4 4 4 3 3 3 1 3 3 1 1 3 3 1 1 3 1 1 3 1 1	Course Title English - 6 hours Freshman Composition I Freshman Composition II Mathematics - 18 hours Calculus A Calculus A Calculus B Calculus C Applied Differential Equations Introduction to Linear Algebra Chemistry - 4 hours General Chemistry I General Chemistry Lab I Physics - 8 hours General Physics w/Calculus I General Physics Lab I General Physics Lab I General Physics Lab I General Physics Lab I	Prerequisites with Concurrency Placement EH 101 MA 113 or MA 115 or Level III Placement MA 111 MA 172 Prereq w/Con: MA 201 MA 172 Plcmt or CH 101, MA 113 or 115, Prereq w/Con: MA 171, Coreq: CH 125 Coreq: CH 121 MA 171 a a for a public	M=Summ FSM FSM FSM FSM FSM FSM FSM FSM FSM FSM
	EH MA MA MA MA MA CH CH CH PH PH	I 102 A 171 A 172 A 201 A 238 A 244 I 121 I 125 I 111 I 114 I 112	3 4 4 3 3 3 1 1 3 3 1 3	Freshman Composition I Freshman Composition II Mathematics - 18 hours Calculus A Calculus B Calculus C Applied Differential Equations Introduction to Linear Algebra Chemistry - 4 hours General Chemistry Lab I Physics - 8 hours General Physics WCalculus I General Physics Lab I	EH 101 MA 113 or MA 115 or Level III Placement MA 171 MA 172 Prereq w/Con: MA 201 MA 172 Plcmt or CH 101, MA 113 or 115, Prereq w/Con: MA 171, Coreq: CH 125 Coreq: CH 121 MA 171	FSM FSM FSM FSM FSM FSM FSM FSM FSM FSM
	EH MA MA MA MA MA CH CH CH PH PH	I 102 A 171 A 172 A 201 A 238 A 244 I 121 I 125 I 111 I 114 I 112	3 4 4 3 3 3 1 1 3 3 1 3	Freshman Composition II Mathematics - 18 hours Calculus A Calculus B Calculus C Applied Differential Equations Introduction to Linear Algebra Chemistry - 4 hours General Chemistry Lab I Physics - 8 hours General Physics WCalculus I General Physics Lab I	EH 101 MA 113 or MA 115 or Level III Placement MA 171 MA 172 Prereq w/Con: MA 201 MA 172 Plcmt or CH 101, MA 113 or 115, Prereq w/Con: MA 171, Coreq: CH 125 Coreq: CH 121 MA 171	FSM FSM FSM FSM FSM FSM FSM FSM FSM FSM
	MA MA MA MA MA CH CH CH PH PH PH	A 171 A 172 A 201 A 238 A 244 I 121 I 125 I 111 I 114 I 112	4 4 3 3 3 1 1 3 1 3	Mathematics - 18 hours Calculus A Calculus B Calculus C Applied Differential Equations Introduction to Linear Algebra Chemistry - 4 hours General Chemistry I General Chemistry Lab I Physics - 8 hours General Physics WCalculus I General Physics Lab I	MA 113 or MA 115 or Level III Placement MA 171 MA 172 Prereq w/Con: MA 201 MA 172 Plcmt or CH 101, MA 113 or 115, Prereq w/Con: MA 171, Coreq: CH 125 Coreq: CH 121 MA 171	FSM FSM FSM FSM FSM FSM FSM FSM FSM
	MA MA MA CH CH CH PH PH PH	A 172 A 201 A 238 A 244 I 121 I 125 I 111 I 111 I 114 I 112	4 4 3 3 1 3 1 3 1 3	Calculus A Calculus B Calculus C Applied Differential Equations Introduction to Linear Algebra Chemistry - 4 hours General Chemistry I General Chemistry Lab I Physics - 8 hours General Physics W/Calculus I General Physics Lab I	MA 171 MA 172 Prereq w/Con: MA 201 MA 172 Plcmt or CH 101, MA 113 or 115, Prereq w/Con: MA 171, Coreq: CH 125 Coreq: CH 121 MA 171	FSM FSM FSM FSM FSM FSM FSM
	MA MA MA CH CH CH PH PH PH	A 172 A 201 A 238 A 244 I 121 I 125 I 111 I 111 I 114 I 112	4 4 3 3 1 3 1 3 1 3	Calculus B Calculus C Applied Differential Equations Introduction to Linear Algebra Chemistry - 4 hours General Chemistry I General Chemistry Lab I Physics - 8 hours General Physics w/Calculus I General Physics Lab I	MA 171 MA 172 Prereq w/Con: MA 201 MA 172 Plcmt or CH 101, MA 113 or 115, Prereq w/Con: MA 171, Coreq: CH 125 Coreq: CH 121 MA 171	FSM FSM FSM FSM FSM FSM FSM
	MA MA MA CH CH CH PH PH PH	A 201 A 238 A 244 I 121 I 125 I 111 I 111 I 114 I 112	4 3 3 1 3 1 3 1 3	Calculus C Applied Differential Equations Introduction to Linear Algebra Chemistry - 4 hours General Chemistry I General Chemistry Lab I Physics - 8 hours General Physics w/Calculus I General Physics Lab I	MA 172 Prereq w/Con: MA 201 MA 172 Plcmt or CH 101, MA 113 or 115, Prereq w/Con: MA 171, Coreq: CH 125 Coreq: CH 121 MA 171	FSM FSM FSM FSM FSM FSM
	MA MA CH CH H PH PH	A 238 A 244 I 121 I 125 I 111 I 111 I 114 I 112	3 3 1 3 1 3 1 3	Applied Differential Equations Introduction to Linear Algebra Chemistry - 4 hours General Chemistry I General Chemistry Lab I Physics - 8 hours General Physics w/Calculus I General Physics Lab I	Prereq w/Con: MA 201 MA 172 Plcmt or CH 101, MA 113 or 115, Prereq w/Con: MA 171, Coreq: CH 125 Coreq: CH 121 MA 171	FSM FSM FSM FSM FSM
	MA CH CH PH PH PH	A 244 I 121 I 125 I 111 I 111 I 114 I 112	3 3 1 3 1 3	Introduction to Linear Algebra Chemistry - 4 hours General Chemistry I General Chemistry Lab I Physics - 8 hours General Physics w/Calculus I General Physics Lab I	MA 172 Plcmt or CH 101, MA 113 or 115, Prereq w/Con: MA 171, Coreq: CH 125 Coreq: CH 121 MA 171	FSM FSM FSM FSM
	CH CH PH PH	H 121 H 125 H 111 H 114 H 112	3 1 3 1 3	Chemistry - 4 hours General Chemistry I General Chemistry Lab I Physics - 8 hours General Physics w/Calculus I General Physics Lab I	Picmt or CH 101, MA 113 or 115, Prereq w/Con: MA 171, Coreq: CH 125 Coreq: CH 121 MA 171	FSM FSM FSM FSM
	СН РН РН РН	I 125 I 111 I 114 I 112	1 3 1 3	General Chemistry I General Chemistry Lab I Physics - 8 hours General Physics w/Calculus I General Physics Lab I	Coreq: CH 121 MA 171	FSM FSM
	СН РН РН РН	I 125 I 111 I 114 I 112	1 3 1 3	General Chemistry Lab I Physics - 8 hours General Physics w/Calculus I General Physics Lab I	Coreq: CH 121 MA 171	FSM FSM
	PH PH PH	I 111 I 114 I 112	3 1 3	Physics - 8 hours General Physics w/Calculus I General Physics Lab I	MA 171	FSM
	PH PH	H 114 H 112	1 3	General Physics w/Calculus I General Physics Lab I		-
	PH PH	H 114 H 112	1 3	General Physics w/Calculus I General Physics Lab I		-
	PH	I 112	3	General Physics Lab I		FSM
					Prereq w/Con: PH 111	1 317
					MA 172, PH 111	FSM
			-	General Physics Lab II	Prereq w/Con: PH 112	FSM
				Science Elective - 3 hours		
			3		BYS 119 or CH 123 or 300/400 level MA course	
			5	History Social & Behavioral Scie	ences, Humaities & Fine Arts - 15 hours	<u> </u>
			3	HSBS	Choose 3 hours: History, Social or Behavior Science	FSM
			3	HFA	Choose 3 hours: Literature or Fine Art	FSM
			3	ПГА		r Sivi
			3		Choose 3 hour courses of HSBS/HFA that you have met prerequisites, from ARH, ARS*, CM, EH, ECN*, FL, GS,	<u> </u>
					GY, HY, MU, PHL, PSC, PY, SOC, WS	
			3			<u> </u>
				General Education Electives - 3 I	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		
	MA	E 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
	IS	SE 321	з	Engineering Economy	Sophomore Standing	FSM
	MA	Æ 341	3	Thermodynamics I	MA 201, CH 121, CH 125, PH 112	FSM
Class has required lab	o section			Industrial & System Engineering	Option - 46 hours	
	CP	PE 112	3	Intro to Computer Programming in Engineering	MA 113, MA 115 or Level III Placement, Coreq: CPE 112L	FSM
	MA	E 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
	IS	SE 124	3	Intro to Industrial & Systems Engineering	Prereq w/Con: MA 113	F
	IS	SE 324	3	Work Design	ISE 390	F
	IS	SE 327	3	Management Systems Analysis	ISE 390	S
	IS	SE 340	3	Operations Research	Prereq w/Con: ISE 390	F
1		E 370	4	Mechanics of Materials	MAE/CE 271, MA 244 & (MAE 111 or CPE 112), Coreq: MAE 370L	FSM
1		SE 390	3	Probability & Engineering Statistics I	Prereg w/Con: MA 201	FSM
1		SE 391	3	Probability & Engineering Statistics II	ISE 390	S
1		SE 423	3	Statistical Quality Control	Prereq w/Con: ISE 391	S
		SE 428	3	Systems Analysis & Design I	ISE 124, ISE 321, ISE 340, ISE 391, Senior Standing	F
		SE 429	3	Systems Analysis & Design I	ISE 428	S
<u> </u>		SE 430	3	Manufacturing Systems and Facilities Design	Senior Standing	F
		SE 433	3	Production & Inventory Control Systems	ISE 390	F
		SE 433 SE 447	3	, , , , , , , , , , , , , , , , , , ,	CPE 112, ISE 391	S F
	115.	,5 44/	د	Intro to Systems Simulation		F
			-	Industrial & Systems Engineering	g Electives - 9 hours	
			3	Choose from MA 385. ISE 402. ISF 403. ISF 426	ISE 437, or other upper-level courses approved by the Department.	<u> </u>
			3		ing: EH 301, ACC 211, MTK 301, MGT 363, or MGT 462.	<u> </u>
			3			<u> </u>
				Technical Elective - 3 hours		

The Catalog is the final authority for all degree requirements.

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



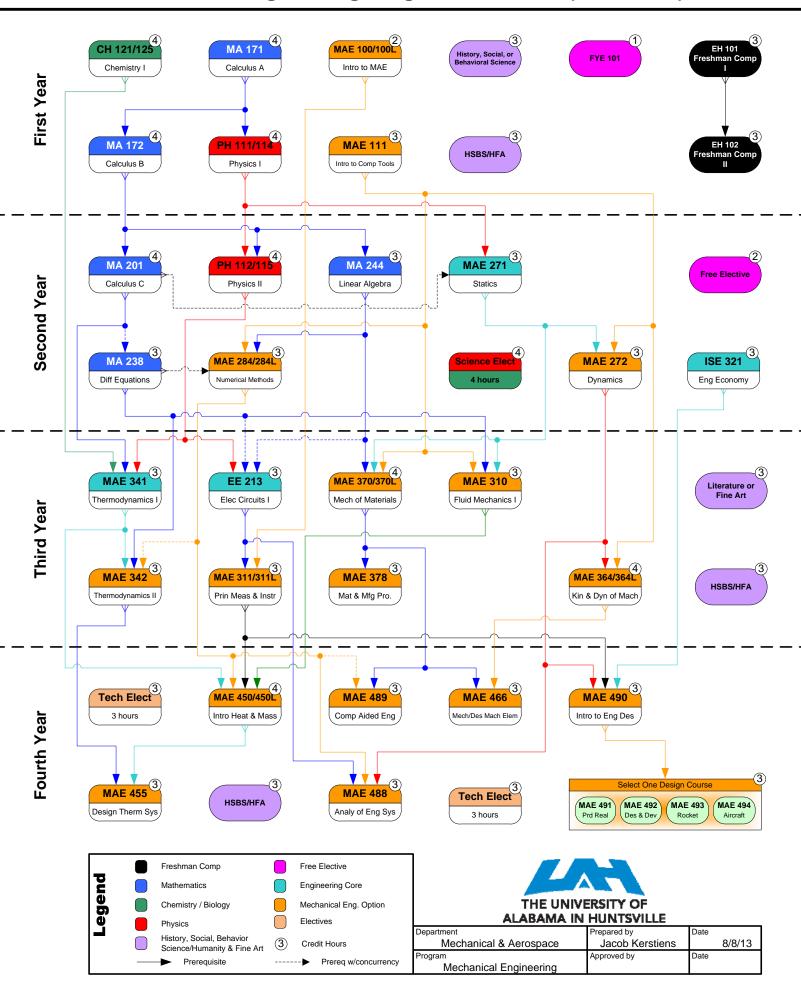
Industrial & Systems Engineering 2013-2014 Plan

		, .	gineering 2013-20			
	urriculum	Research	Internship		Со-ор	
	Pathway	Pathway	Pathway		Pathway	
		Mileton	e Year-1			
[] 32 hours completed including	g: 121/125, FYE 101,				liscuss pathway choice	es
			[] Meet with Care			
	1, ISE 124				Workshop on Resum	ie
	11/114, CPE 112,		[] Outline Resume			
EH 102	, HSBS/HFA		[] Participate in Ca	areer Fa	air	
		5 d'1	× 0			
		Milestor	ne Year-2			
[] 64 hours completed including					Undergraduate resear	
	112/115, ISE 390,				Workshop on Intervi	ews
	1, Sci Elec		[] Professional Res			
	AE 271, ISE 391,		[] Attend Career F		r (Currens en Chent)	
MA 244,	MAE/CE 111		[] Co-op/internshi	ip Offer	r (Summer Start)	
Peseat Pesat	and the second s	Interr Path	nship hway		Patinway	
		Milostor	ne Year-3			
Desservels Dethurou				_	Co. on [athway
Research Pathway	~.	[] 95 hours comp	p Pathway			Pathway
[] 95 hours completed includin 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 32	,					
HSBS/HFA, Tech Elec				_		, HSBS/HFA
[] Undergraduate Research						ster (Spring)
[] Attend JUMP Information Se	ssion					MAE 341,
						, Free Elec
					[] 2 Semesters of Co	о-ор
		l Milestor				
Desseyah Dathurau			ne Year-4	-	(a. a. a.	athura.
Research Pathway		Internshi 127 hours com	p Pathway			Pathway
[] 127 hours completed includi				ŀ	103 hours comple	
ISE 430, ISE 447, ISE 42	0,	Curriculum	-	ŀ		ester (Fall)
ISE Elec, HSBS/HFA ISE 429, ISE 433, Free El		[] Summer Interr				ISE 327,
		 Senior Design Degree Completion 		ŀ		HSBS/HFA ter (Summer)
ISE Elec, ISE Elec, HSBS/H						
[] Undergraduate Research Cor	inplete	[] Begin Career o	r Graduate School		[] Experiential Learn [] Decision on Indust	- ·
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	7		<mark>.</mark>		
Ⅰ ⊢—	Required	-			[] Senior Design Con	ipiete
Rec	ommended	-			Degree Complete Bogin Carpor or Ci	raduato Schael
			/2014		[] Begin Career or G	audate School

Student A#			Cr		Student Name (Last, First MI) Prerequisites, Corequisites and/or Descention with Consumption	Offered: F=Fall S=Spring			
Transfer or AP	Grade	Number	Hrs	Course Title	Prerequisites with Concurrency	M=Summe			
	Г			English - 6 hours					
		EH 101	3	Freshman Composition I	Placement	FSM			
		ЕН 102	3	Freshman Composition II	EH 101	FSM			
	1			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 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	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			
				Science Elective - 4 hours					
			3		Choose from BYS 119, CH 123/126, or PH 113/116	FSM			
			1		Choose from BT3 117, CH 123/120, OF FT1 113/110	FSM			
				History, Social & Behavioral Sci	ences, Humaities & 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,				
			3		from ARH, ARS*, CM, EH, ECN*, FL, GS,				
			3		GY, HY, MU, PHL, PSC, PY, SOC, WS				
				General Education Electives - 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					
		MAE 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			
		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			
Class has required	ab section			Mechanical Engineering Option	- 53 hours				
		MAE 100	2	Intro to Mechanical Engineering	Prereq w/Con: MA 113 or Level II Placement, Coreq: MAE 100L	FS			
	1	MAE 111	3	Intro to Computational Tools	Prereq w/Con: MA 113 or Level II Placement	FSM			
		MAE 272	3	Dynamics	MAE/CE 271 & (MAE 111 or CPE 112)	FSM			
	1	MAE 284	3	Numerical Methods	MA 244 & (MAE 111 or CPE 112); Prereq w/Con: MA 238 & Coreq: MAE 284L	FSM			
		MAE 310	3	Fluid Mechanics I	MA 238, MAE/CE 271 & (MAE 111 or CPE 112 or CHE 198)	FSM			
	1	MAE 311		Principles of Measurement & Instrumentation	EE 213 & (MAE 100 or 200), Coreq: MAE 311L	FSM			
		MAE SII	3		LE 213 & (MAE 100 01 200), COTEQ. MAE STIL				
		MAE 311 MAE 342	3	Thermodynamics II	MAE 341, MA 238, Prereq w/Con: MAE 284	FSM			
						-			
		MAE 342	3	Thermodynamics II	MAE 341, MA 238, Prereq w/Con: MAE 284	FSM			
		MAE 342 MAE 364	3 4	Thermodynamics II Kinematics & Dynamics of Machines	MAE 341, MA 238, Prereq w/Con: MAE 284 MAE 111, MAE/CE 272, Coreq: MAE 364L	FSM FS			
		MAE 342 MAE 364 MAE 370	3 4 4	Thermodynamics II Kinematics & Dynamics of Machines Mechanics of Materials	MAE 341, MA 238, Prereq w/Con: MAE 284 MAE 111, MAE/CE 272, Coreq: MAE 364L MAE/CE 271, MA 244 & (MAE 111 or CPE 112), Coreq: MAE 370L	FSM FS FSM			
		MAE 342 MAE 364 MAE 370 MAE 378	3 4 4 3	Thermodynamics II Kinematics & Dynamics of Machines Mechanics of Materials Materials & Manufacturing Processes	MAE 341, MA 238, Prereq w/Con: MAE 284 MAE 111, MAE/CE 272, Coreq: MAE 364L MAE/CE 271, MA 244 & (MAE 111 or CPE 112), Coreq: MAE 370L MAE/CE 370	FSM FS FSM FSM			
		MAE 342 MAE 364 MAE 370 MAE 378 MAE 450	3 4 4 3 4	Thermodynamics II Kinematics & Dynamics of Machines Mechanics of Materials Materials & Manufacturing Processes Intro to Heat and Mass Transfer Design of Thermal Systems	MAE 341, MA 238, Prereq w/Con: MAE 284 MAE 111, MAE/CE 272, Coreq: MAE 364L MAE/CE 271, MA 244 & (MAE 111 or CPE 112), Coreq: MAE 370L MAE/CE 370 MAE 284, MAE 310, MAE 311, MAE 341, Coreq: MAE 450L MAE 342, MAE 450, Recommended: MAE 490	FSM FS FSM FSM FS FS SM			
		MAE 342 MAE 364 MAE 370 MAE 378 MAE 450 MAE 455	3 4 4 3 4 3	Thermodynamics II Kinematics & Dynamics of Machines Mechanics of Materials Materials & Manufacturing Processes Intro to Heat and Mass Transfer Design of Thermal Systems Mechanics & Design of Machine Elements	MAE 341, MA 238, Prereq w/Con: MAE 284 MAE 111, MAE/CE 272, Coreq: MAE 364L MAE/CE 271, MA 244 & (MAE 111 or CPE 112), Coreq: MAE 370L MAE/CE 370 MAE 284, MAE 310, MAE 311, MAE 341, Coreq: MAE 450L MAE 342, MAE 450, Recommended: MAE 490 MAE 364, MAE/CE 370	FSM FS FSM FSM FS FS SM FM			
		MAE 342 MAE 364 MAE 370 MAE 378 MAE 450 MAE 455 MAE 466	3 4 4 3 4 3 3	Thermodynamics II Kinematics & Dynamics of Machines Mechanics of Materials Materials & Manufacturing Processes Intro to Heat and Mass Transfer Design of Thermal Systems Mechanics & Design of Machine Elements Analysis of Engineering Systems	MAE 341, MA 238, Prereq w/Con: MAE 284 MAE 111, MAE/CE 272, Coreq: MAE 364L MAE/CE 271, MA 244 & (MAE 111 or CPE 112), Coreq: MAE 370L MAE/CE 370 MAE 284, MAE 310, MAE 311, MAE 341, Coreq: MAE 450L MAE 342, MAE 450, Recommended: MAE 490 MAE 364, MAE/CE 370 EE 213, MAE/CE 272, MAE 284	FSM FS FSM FSM FS FS SM FM FSM			
		MAE 342 MAE 364 MAE 370 MAE 378 MAE 450 MAE 455 MAE 466 MAE 488 MAE 489	3 4 3 4 3 3 3 3	Thermodynamics II Kinematics & Dynamics of Machines Mechanics of Materials Materials & Manufacturing Processes Intro to Heat and Mass Transfer Design of Thermal Systems Mechanics & Design of Machine Elements Analysis of Engineering Systems Computer-Aided Engineering Analysis	MAE 341, MA 238, Prereq w/Con: MAE 284 MAE 111, MAE/CE 272, Coreq: MAE 364L MAE/CE 271, MA 244 & (MAE 111 or CPE 112), Coreq: MAE 370L MAE/CE 370 MAE 284, MAE 310, MAE 311, MAE 341, Coreq: MAE 450L MAE 342, MAE 450, Recommended: MAE 490 MAE 364, MAE/CE 370 EE 213, MAE/CE 272, MAE 284 MAE/CE 370, Prereq w/Con: MAE 284	FSM FS FSM FSM FSM FS FSM FSM FSM			
		MAE 342 MAE 364 MAE 370 MAE 378 MAE 450 MAE 455 MAE 466 MAE 488 MAE 489 MAE 490	3 4 3 4 3 3 3 3 3	Thermodynamics II Kinematics & Dynamics of Machines Mechanics of Materials Materials & Manufacturing Processes Intro to Heat and Mass Transfer Design of Thermal Systems Mechanics & Design of Machine Elements Analysis of Engineering Systems Computer-Aided Engineering Analysis Intro to Engineering Design	MAE 341, MA 238, Prereq w/Con: MAE 284 MAE 111, MAE/CE 272, Coreq: MAE 364L MAE/CE 271, MA 244 & (MAE 111 or CPE 112), Coreq: MAE 370L MAE/CE 370 MAE 342, MAE 310, MAE 311, MAE 341, Coreq: MAE 450L MAE 342, MAE 450, Recommended: MAE 490 MAE 364, MAE/CE 370 EE 213, MAE/CE 272, MAE 284 MAE/CE 370, Prereq w/Con: MAE 284 MAE/CE 272, MAE 311, ISE 321	FSM FSM FSM FSM FS FSM FSM FSM FSM			
		MAE 342 MAE 364 MAE 370 MAE 378 MAE 450 MAE 455 MAE 466 MAE 488 MAE 489 MAE 490 MAE 491	3 4 3 4 3 3 3 3 3 3 3 3 3	Thermodynamics II Kinematics & Dynamics of Machines Mechanics of Materials Materials & Manufacturing Processes Intro to Heat and Mass Transfer Design of Thermal Systems Mechanics & Design of Machine Elements Analysis of Engineering Systems Computer-Aided Engineering Analysis Intro to Engineering Design Product Realization	MAE 341, MA 238, Prereq w/Con: MAE 284 MAE 111, MAE/CE 272, Coreq: MAE 364L MAE/CE 271, MA 244 & (MAE 111 or CPE 112), Coreq: MAE 370L MAE/CE 370 MAE 342, MAE 310, MAE 311, MAE 341, Coreq: MAE 450L MAE 342, MAE 450, Recommended: MAE 490 MAE 364, MAE/CE 370 EE 213, MAE/CE 272, MAE 284 MAE/CE 370, Prereq w/Con: MAE 284 MAE/CE 272, MAE 311, ISE 321 MAE/CE 370, Senior Standing	FSM FS FSM FSM FS FS FSM FSM FSM FSS			
		MAE 342 MAE 364 MAE 370 MAE 378 MAE 450 MAE 455 MAE 466 MAE 488 MAE 489 MAE 491 MAE 492	3 4 3 4 3 3 3 3 3 3 3 3 3 3	Thermodynamics II Kinematics & Dynamics of Machines Mechanics of Materials Materials & Manufacturing Processes Intro to Heat and Mass Transfer Design of Thermal Systems Mechanics & Design of Machine Elements Analysis of Engineering Systems Computer-Aided Engineering Analysis Intro to Engineering Design Product Realization Mission Design & Development	MAE 341, MA 238, Prereq w/Con: MAE 284 MAE 111, MAE/CE 272, Coreq: MAE 364L MAE/CE 271, MA 244 & (MAE 111 or CPE 112), Coreq: MAE 370L MAE/CE 370 MAE 342, MAE 310, MAE 311, MAE 341, Coreq: MAE 450L MAE 342, MAE 450, Recommended: MAE 490 MAE 364, MAE/CE 370 EE 213, MAE/CE 272, MAE 284 MAE/CE 370, Prereq w/Con: MAE 284 MAE/CE 272, MAE 311, ISE 321 MAE 490 & Senior Standing MAE 490 & Senior Standing	FSM FSM FSM FSM FS FSM FSM FSM FSM FSM F			
		MAE 342 MAE 364 MAE 370 MAE 378 MAE 450 MAE 455 MAE 466 MAE 488 MAE 489 MAE 490 MAE 492 MAE 493	3 4 3 3 3 3 3 3 3 3 3 3 3 3 3	Thermodynamics II Kinematics & Dynamics of Machines Mechanics of Materials Materials & Manufacturing Processes Intro to Heat and Mass Transfer Design of Thermal Systems Mechanics & Design of Machine Elements Analysis of Engineering Systems Computer-Aided Engineering Analysis Intro to Engineering Design Product Realization Mission Design & Development Rocket Design	MAE 341, MA 238, Prereq w/Con: MAE 284 MAE 111, MAE/CE 272, Coreq: MAE 364L MAE/CE 271, MA 244 & (MAE 111 or CPE 112), Coreq: MAE 370L MAE/CE 370 MAE 284, MAE 310, MAE 311, MAE 341, Coreq: MAE 450L MAE 342, MAE 450, Recommended: MAE 490 MAE 364, MAE/CE 370 EE 213, MAE/CE 272, MAE 284 MAE/CE 370, Prereq w/Con: MAE 284 MAE/CE 272, MAE 311, ISE 321 MAE 490 & Senior Standing MAE 490 & Senior Standing MAE 490 & Senior Standing	FSM FSM FSM FSM FSM FSM FSM FSM FSM FSM			
		MAE 342 MAE 364 MAE 370 MAE 378 MAE 450 MAE 455 MAE 466 MAE 488 MAE 489 MAE 491 MAE 492	3 4 3 4 3 3 3 3 3 3 3 3 3 3	Thermodynamics II Kinematics & Dynamics of Machines Mechanics of Materials Materials & Manufacturing Processes Intro to Heat and Mass Transfer Design of Thermal Systems Mechanics & Design of Machine Elements Analysis of Engineering Systems Computer-Aided Engineering Analysis Intro to Engineering Design Product Realization Mission Design & Development Rocket Design Aircraft Design	MAE 341, MA 238, Prereq w/Con: MAE 284 MAE 111, MAE/CE 272, Coreq: MAE 364L MAE/CE 271, MA 244 & (MAE 111 or CPE 112), Coreq: MAE 370L MAE/CE 370 MAE 342, MAE 310, MAE 311, MAE 341, Coreq: MAE 450L MAE 342, MAE 450, Recommended: MAE 490 MAE 364, MAE/CE 370 EE 213, MAE/CE 272, MAE 284 MAE/CE 370, Prereq w/Con: MAE 284 MAE/CE 272, MAE 311, ISE 321 MAE 490 & Senior Standing MAE 490 & Senior Standing	FSM FSM FSM FSM FS FSM FSM FSM FSM FSM F			
		MAE 342 MAE 364 MAE 370 MAE 378 MAE 450 MAE 455 MAE 466 MAE 488 MAE 489 MAE 490 MAE 492 MAE 493	3 4 3 3 3 3 3 3 3 3 3 3 3 3 3	Thermodynamics II Kinematics & Dynamics of Machines Mechanics of Materials Materials & Manufacturing Processes Intro to Heat and Mass Transfer Design of Thermal Systems Mechanics & Design of Machine Elements Analysis of Engineering Systems Computer-Aided Engineering Analysis Intro to Engineering Design Product Realization Mission Design & Development Rocket Design	MAE 341, MA 238, Prereq w/Con: MAE 284 MAE 111, MAE/CE 272, Coreq: MAE 364L MAE/CE 271, MA 244 & (MAE 111 or CPE 112), Coreq: MAE 370L MAE/CE 370 MAE 284, MAE 310, MAE 311, MAE 341, Coreq: MAE 450L MAE 342, MAE 450, Recommended: MAE 490 MAE 364, MAE/CE 370 EE 213, MAE/CE 272, MAE 284 MAE/CE 370, Prereq w/Con: MAE 284 MAE/CE 272, MAE 311, ISE 321 MAE 490 & Senior Standing MAE 490 & Senior Standing MAE 490 & Senior Standing	FSM FSM FSM FSM FSM FSM FSM FSM FSM FSM			

The Catalog is the final authority for all degree requirements.

Mechanical Engineering Program 2013/2014 (129 Hours)



Mechanical Engineering 2013-2014 Plan

	nanical Enginee		
Curriculum	Research	Internship	Со-ор
Pathway	Pathway	Pathway	Pathway
	Mileton		
34 hours completed including:			y to discuss pathway choices
MA 171, CH 121/125, MAE 100,		[] Meet with Career	· · ·
HSBS/HFA, FYE 101, EH 101			rvices Workshop on Resume
MA 172, PH 111/114, MAE 111,		[] Outline Resume	
HSBS/HFA, EH 102		[] Participate in Car	eer Fair
	Mileston	e Year-2	
[] 66 hours completed including:		[] Meet with Facult	y for Undergraduate research opportunities
MA 201, PH 112/115, MA 244,			rvices Workshop on Interviews
MAE 271, Free Elec		[] Professional Resu	· · · · · · · · · · · · · · · · · · ·
		• •	
MA 238, MAE 284, Sci Elec,		[] Attend Career Fai	
MAE 272, ISE 321		[] Co-op/Internship	Offer (Summer Start)
Research	Intern Path		Patisway
	Mileston		
Research Pathway	Internship		Co-op Pathway
] 98 hours completed including:	[] 98 hours comp	leted from	[] Obtain Faculty Mentor
MAE 341, EE 213, MAE 370,	Curriculum	Pathway	[] 93 hours completed including:
MAE 310, HSBS/HFA	[] Summer Intern	ship	Work Semester (Summer)
MAE 342, MAE 311, MAE 378,			MAE 341, MAE 364,
MAE 364, HSBS/HFA			MAE 310, MAE 370 (Fall)
] Undergraduate Research			Work Semester (Spring)
] Attend JUMP Information Session			EE 213, MAE 311,
			MAE 342, MAE 378 (Summer)
			[] 2 Semesters of Co-op
	Mileston	e Year-4	
Research Pathway	Internship	Pathway	Co-op Pathway
] 129 hours completed including:	[] 129 hours com	pleted from	[] 118 hours completed including:
MAE 450, MAE 489, MAE 466,	Curriculum	Pathway	Work Semester (Fall)
MAE 490, Tech Elec	[] Summer Intern		MAE 490, MAE 450,
MAE 455, MAE 488, MAE 49x,	[] Senior Design (· · · · · ·	
			MAE 489, Tech Elec (Spring)
Tech Elec, HSBS/HFA	[] Degree Comple		MAE 488, MAE 455,
] Undergraduate Research Complete	[] Begin Career or	r Graduate School	MAE 466, HSBS/HFA (Summer)
] Senior Design Complete			[] Experiential Learning complete
] Degree Complete			[] Decision on Industry
] Begin Career or Graduate School			or Graduate School
	Mileston	e Year-5	-
			Co-op Pathway
			[] 129 hours completed including:
			MAE 49x, Tech Elec,
			HSBS/HFA, HSBS/HFA (Fall)
			[] Senior Design Complete
			[] Degree Complete
			[] Begin Career or Graduate School
Required	<u></u>		
Required			

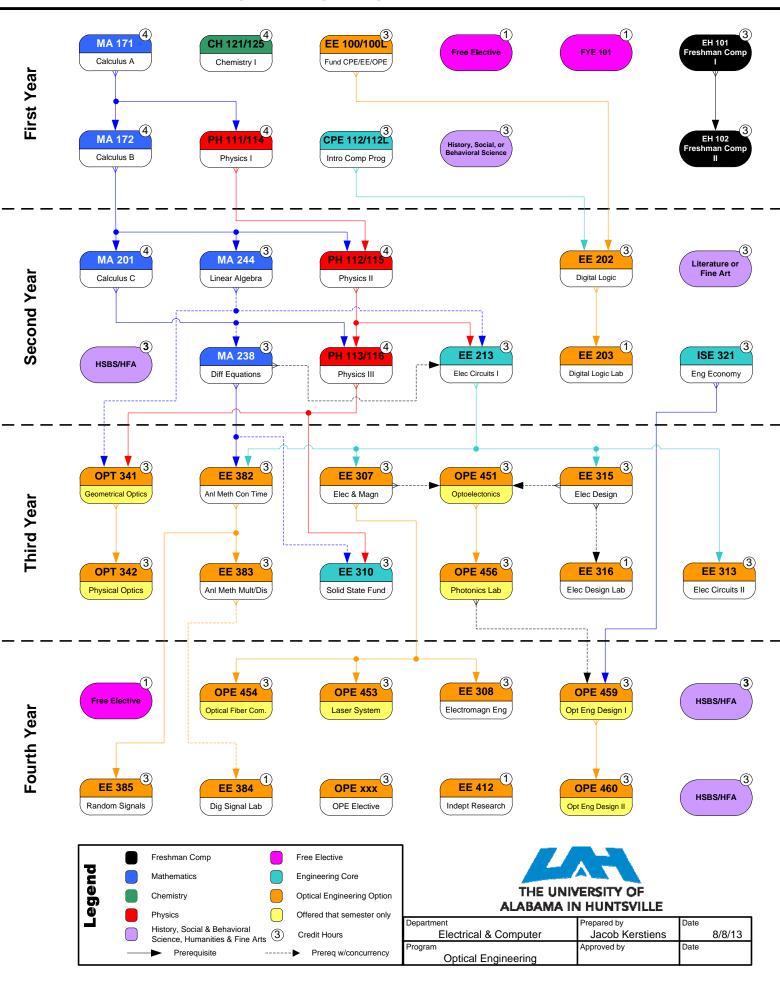
Recommended

Semester, Course Cr					Prerequisites, Corequisites and/or		
Transfer or AP	Grade	Number		Course Title	Prerequisites with Concurrency	S=Sprin M=Sum	
				English - 6 hours			
		EH 101	3	Freshman Composition I	Placement	FSN	
		EH 102	3	Freshman Composition II	EH 101	FSN	
				Mathematics - 18 hours			
	1	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	
	1	MA 238	3	Applied Differential Equations	Prereq w/Con: MA 201	FSM	
		MA 244	3	Introduction to Linear Algebra	MA 172	FSN	
				Chemistry - 4 hours			
	Τ	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 - 12 hours			
	T	PH 111	3	General Physics w/Calculus I	MA 171	FSM	
		PH 114	1	General Physics Lab I	Prereq w/Con: PH 111	FSM	
	1	PH 112	3	General Physics w/Calculus II	MA 172, PH 111	FSN	
	1	PH 115	1	General Physics Lab II	Prereq w/Con: PH 112	FSN	
	1	PH 113	3	General Physics w/Calculus III	MA 201, PH 112	FSN	
	1	PH 116	1	General Physics Lab III	Prereq w/Con: PH 113	FSN	
		-			nces, Humaities & Fine Arts - 15 hours		
			3	HSBS	Choose 3 hours: History, Social or Behavior Science	FSM	
		1	3	HFA	Choose 3 hours: Literature or Fine Art	FSM	
		1	3		Choose 3 hour courses of HSBS/HFA that you have met prerequisites,		
		1	3		from ARH, ARS*, CM, EH, ECN*, FL, GS,		
			3		GY, HY, MU, PHL, PSC, PY, SOC, WS		
				General Education Electives - 3 h	ours		
	T	<u> </u>	l –		Choose up to 3 hours of electives (Ex. FYE 101):	Т	
		1			Any courses that you have met prerequisites,		
					and are not remedial coursework for Engineering curriculum.		
lass has required I	ab section			Engineering Core - 12 hours		<u> </u>	
	<u> </u>	CPE 112	3	Intro to Computer Programming in Engineering	MA 113, MA 115 or Level III Placement, Coreq: CPE 112L	FSM	
		EE 213	3	Electrical Circuit Analysis I	PH 112, Prereg w/Con: MA 238 & (MA 244 or CHE 244)	FSN	
		EE 310	3	Solid State Fundamentals	PH 113, Prereq w/Con: MA 238	FS	
		ISE 321	3	Engineering Economy	Sophomore Standing	FSN	
	<u></u>			Electrical Engineering Requireme			
		EE 100	3	Fund of Computer, Electrical & Optical Eng	Prereq w/Con: MA 112, Coreq: EE 100L	FSN	
	-	EE 202	3	Intro to Digital Logic Design	CPE 112, EE 100	FSN	
		EE 203	1	Digital Logic Design Lab	EE 202	FSN	
		EE 315	3	Introduction to Electronic Analysis and Design	EE 213	FSN	
		EE 316	1	Electronic Measurements & Devices Design Lab	Prereq w/Con: EE 315	FS	
	1	EE 382	3	Analytical Meth for Continuous Time Sys	EE 213, MA 238	FSM	
	1	EE 383	3	Analytical Meth for Mult and Discr Time Sys	EE 382	FSN	
	1	EE 384	1	Digital Signal Processing Laboratory	CPE 381 or Prereq w/Con:EE 383	FS	
	<u>+</u>	EE 385	3	Random Signals and Noise	CPE 381 or EE 382	FSM	
			1	Independent Research	Senior Standing	FSM	
		EE 412	±				
		EE 412	1	Optical Engineering Option - 33 h	ours	501	
			3	Optical Engineering Option - 33 h Electricity and Magnetism		ESM	
		EE 307	3	Electricity and Magnetism	EE 213	-	
		EE 307 EE 308	3	Electricity and Magnetism Electromagnetic Engineering	EE 213 EE 307	FS	
		EE 307 EE 308 EE 313	3 3 3	Electricity and Magnetism Electromagnetic Engineering Electrical Circuit Analysis II	EE 213 EE 307 EE 213	FS FSN	
		EE 307 EE 308 EE 313 OPE 451	3 3 3 3	Electricity and Magnetism Electromagnetic Engineering Electrical Circuit Analysis II Optoelectronics	EE 213 EE 307 EE 213 Prereq w/Con: EE 307, EE 315	FS FSN F	
		EE 307 EE 308 EE 313 OPE 451 OPE 453	3 3 3	Electricity and Magnetism Electromagnetic Engineering Electrical Circuit Analysis II Optoelectronics Laser Systems	EE 213 EE 307 EE 213 Prereq w/Con: EE 307, EE 315 EE 307	FS FSN F	
		EE 307 EE 308 EE 313 OPE 451 OPE 453 OPE 454	3 3 3 3 3 3 3	Electricity and Magnetism Electromagnetic Engineering Electrical Circuit Analysis II Optoelectronics Laser Systems Optical Fiber Communications	EE 213 EE 307 EE 213 Prereq w/Con: EE 307, EE 315 EE 307 EE 307 or PH 432	FS FSM F F F	
		EE 307 EE 308 EE 313 OPE 451 OPE 453 OPE 454 OPE 456	3 3 3 3 3	Electricity and Magnetism Electromagnetic Engineering Electrical Circuit Analysis II Optoelectronics Laser Systems Optical Fiber Communications Photonics Lab	EE 213 EE 307 EE 213 Prereq w/Con: EE 307, EE 315 EE 307 EE 307 or PH 432 OPE 451	F F S	
		EE 307 EE 308 EE 313 OPE 451 OPE 453 OPE 454 OPE 456 OPE 459	3 3 3 3 3 3 3 3 3 3	Electricity and Magnetism Electromagnetic Engineering Electrical Circuit Analysis II Optoelectronics Laser Systems Optical Fiber Communications Photonics Lab Optical Engineering Design I	EE 213 EE 307 EE 213 Prereq w/Con: EE 307, EE 315 EE 307 EE 307 or PH 432 OPE 451 ISE 321, Prereq w/Con: OPE 456	FS FSM F F F F S S F	
		EE 307 EE 308 EE 313 OPE 451 OPE 453 OPE 454 OPE 456 OPE 459 OPE 460	3 3 3 3 3 3 3 3 3 3 3 3	Electricity and Magnetism Electromagnetic Engineering Electrical Circuit Analysis II Optoelectronics Laser Systems Optical Fiber Communications Photonics Lab Optical Engineering Design I Optical Engineering Design II	EE 213 EE 307 EE 213 Prereq w/Con: EE 307, EE 315 EE 307 EE 307 or PH 432 OPE 451 ISE 321, Prereq w/Con: OPE 456 OPE 459	FS FSW F F F S S F S	
		EE 307 EE 308 EE 313 OPE 451 OPE 453 OPE 454 OPE 456 OPE 459 OPE 460 OPT 341	3 3 3 3 3 3 3 3 3 3 3 3 3 3	Electricity and Magnetism Electromagnetic Engineering Electrical Circuit Analysis II Optoelectronics Laser Systems Optical Fiber Communications Photonics Lab Optical Engineering Design I Optical Engineering Design II Geometrical Optics	EE 213 EE 307 EE 213 Prereq w/Con: EE 307, EE 315 EE 307 EE 307 or PH 432 OPE 451 ISE 321, Prereq w/Con: OPE 456 OPE 459 PH 113, Prereq w/Con: (PH 305 or MA 244)	FS FSM F F F S F F S F	
		EE 307 EE 308 EE 313 OPE 451 OPE 453 OPE 454 OPE 456 OPE 459 OPE 460	3 3 3 3 3 3 3 3 3 3 3 3	Electricity and Magnetism Electromagnetic Engineering Electrical Circuit Analysis II Optoelectronics Laser Systems Optical Fiber Communications Photonics Lab Optical Engineering Design I Optical Engineering Design II	EE 213 EE 307 EE 213 Prereq w/Con: EE 307, EE 315 EE 307 EE 307 or PH 432 OPE 451 ISE 321, Prereq w/Con: OPE 456 OPE 459 PH 113, Prereq w/Con: (PH 305 or MA 244) OPT 341	FS FSW F F F S S F S	

All prerequisite classes must be completed with a "C" or higher grade. The Catalog is the final authority for all degree requirements. Updated: 7/11/2013

UAHuntsville

Optical Engineering Program 2013/2014 (128 Hours)



Optical Engineering 2013-2014 Plan

		Ор	tical Engineerin	-	an			
	Curriculum		Research	Internship		Со-ор		
	Pathway		Pathway	Pathway		Pathway		
			Miletone	e Year-1				
[] 33 hours complete						discuss pathway choic	es	
N	IA 171, CH 121/125, EE	100,		[] Meet with Career Development				
HSBS/	HFA, FYE 101, EH 101,	Free El	ec	Attend Career Services Workshop on Resume				
M	A 172, PH 111/114, CPE	E 112,		[] Outline Resume				
	HSBS/HFA, EH 102			[] Participate in C	Career F	air		
			•					
			Mileston	e Year-2				
[] 67 hours complete	ed including:			[] Meet with Faculty for Undergraduate research opportunities				
M	A 201, PH 112/115, MA	244,				s Workshop on Interv		
	EE 202, HSBS/HFA			[] Professional Re	esume			
N	IA 238, PH 113/116, EE	213,		[] Attend Career	Fair			
	EE 203, ISE 321, HSBS/H	HFA		[] Co-op/Internsh	nip Offe	er (Summer Start)		
	Research		Interns Pathy			Patistinay		
			Mileston	e Year-3				
Research	Pathway	-	Internship			Co-op	Pathway	
[] 98 hours complete			[] 98 hours compl			[] Obtain Faculty M	-	
	382, EE 315,		Curriculum			[] 91 hours complet		
	OPT 341		[] Summer Interns	· · · · · · · · · · · · · · · · · · ·			ster (Summer)	
						OPT 341, OPE 451,		
	EE 313, EE 383, EE 310, OPE 456, EE 316, OPT 342							
[] Undergraduate Re						EE 307, EE 315 (Fall) Work Semester (Spring)		
[] Attend JUMP Info						EE 382, EE 310, EE 313,		
	indion Session						(Summer)	
						[] 2 Semesters of C		
							5.00	
			Mileston	e Vear-4				
Research	Pathway	-			r 1	Co-on	Pathway	
[] 128 hours comple	4		Internship Pathway 128 hours completed from			Co-op Pathway [] 112 hours completed including:		
	453, EE 308,		Curriculum Pathway			Work Semester (Fall)		
			[] Summer Internship				383, OPE 456,	
	OPE 459, Free Elec, HSBS/HFA EE 385, EE 384, EE 412,		[] Senior Design Complete					
	OPE 460, OPE Elec, HSBS/HFA		[] Degree Complete			HSBS/HFA (Spring) Work Semester (Summer)		
			[] Begin Career or Graduate School			[] Experiential Learning complete		
	 [] Undergraduate Research Complete [] Senior Design Complete 					[] Decision on Indus	U 1	
[] Degree Complete	.p.ete					or Graduate So		
[] Begin Career or G	raduate School							
Milestone Year-5								
	Co-op Pathway							
[] 128 hours completed including:							-	
			OPE 454, OPE 453, EE 308,					
							, Free Elec	
						EE 385, EE 384, OPE Elec,		
							460, EE 316	
	Required		7			[] Senior Design Complete		
						[] Degree Complete		
	Recommended					[] Begin Career or G		
			1/24/	2014				