

Student A#				Student Name (Last, First)			Offered: F=Fall S=Spr M=Sum	
Semester, Transfer or AP	Grade	Course Number	Cr Hrs	Course Title	Prerequisites, Corequisites and/or Prerequisites with Concurrency			
<b>English - 6 hours</b>								
		EH 101	3	College Writing I	Placement		FSM*	
		EH 102	3	College Writing II	EH 101		FSM*	
<b>Mathematics - 18 hours</b>								
		MA 171	4	Calculus I	MA 113 or Level III Placement		FSM*	
		MA 172	4	Calculus II	MA 171 or MA 151		FSM*	
		MA 201	4	Calculus III	MA 172		FSM*	
		MA 238	3	Applied Differential Equations	Prereq w/Con: MA 201		FSM*	
		MA 244	3	Introduction to Linear Algebra	MA 172		FSM*	
<b>Chemistry - 4 hours</b>								
		CH 121	3	General Chemistry I	Plcmt or Prereq w/Con: MA 113 or higher, CH 125		FSM*	
		CH 125	1	General Chemistry Lab I	Prereq w/Con: CH 121		FSM*	
<b>Physics - 8 hours</b>								
		PH 111	3	General Physics w/Calculus I	MA 171 or MA 151; Coreq: 114		FSM*	
		PH 114	1	General Physics Lab I	Prereq w/Con: PH 111		FSM*	
		PH 112	3	General Physics w/Calculus II	MA 172, PH 111, PH 114; Coreq: 115		FSM*	
		PH 115	1	General Physics Lab II	Coreq: PH 112		FSM*	
<b>Science Elective - 3 hours</b>								
			3		BYS 119, CH 123, PH 113, or 300/400 MA course			
<b>History, Social &amp; Behavioral Sciences, Humanities &amp; Fine Arts - 18 hours</b>								
			3	History	For more information on HSBS/HFA Requirements: <a href="http://www.uah.edu/eng/departments/undergraduate-engineering/student-forms">http://www.uah.edu/eng/departments/undergraduate-engineering/student-forms</a>		FSM*	
			3	Literature			FSM*	
			3	Fine Art			FSM*	
			3	Social & Behavioral Science			FSM*	
			3	Sequence Course (HY or EH)			FSM*	
			3	HSBS/HFA			FSM*	
<b>Engineering - 4 hours</b>								
		FYE 101	1	Charger Success: Engineering	None		F	
		EGR 101	3	Computing for Engineers	Prereq w/Con: MA 113 or MA 151		FSM*	
		EGR 299	0	Engineering Mentoring I	EGR 101, Prereq w/Con: MA 201		FS	
		EGR 399	0	Engineering Mentoring II	EGR 299, Prereq w/Con: ISE 391		FS	
<b>Industrial &amp; System Engineering - 45-46 hours</b>								
		XXX 211	2	Graphics or Programming Selection	CE 211, CPE 211, or MAE 211		FSM*	
		ISB 224	3	Intro to Industrial & Systems Engineering	EGR 101		F	
		MAE 271	3	Statics	EGR 101, PH 111; Prereq w/Con: MA 201		FSM*	
		EE 21X	3	Electrical Circuits (EE 213 or EE 215)	Prereq w/Con: PH 112, MA 201		FSM*	
		ISB 321	3	Engineering Economy	EGR 101		FSM*	
		ISB 324	3	Work Design	ISE 390		FS	
		ISB 327	3	Management Systems Analysis	ISE 390		S	
		ISB 340	3	Operations Research	MA 244, ISE 390		F	
		MAE 341	3	Thermodynamics I	CH 121, PH 112, MA 201		FSM*	
		MAE 370	3	Mechanics of Materials	MAE/CE 271, MA 244, (MAE or CE 211 or CPE 211); Coreq: MAE 375		FSM*	
		MAE 375	1	Mechanics of Materials Lab	Coreq: MAE 370		FSM*	
		ISB 390	3	Probability & Engineering Statistics I	Prereq w/Con: MA 201		FSM	
		ISB 391	3	Probability & Engineering Statistics II	ISE 390		S	
		ISB 428	3	Systems Analysis & Design I	ISE 224, ISE 321, ISE 391, EGR 399, Instructor Approval		F	
		ISB 429	3	Systems Analysis & Design II	ISE 428		S	
		ISB 447	3	Intro to Systems Simulation	EGR 101, ISE 391		F	
<b>Industrial &amp; System Engineering Electives - 21 hours</b>								
		ISB 328	3	Intro to Systems Engineering	ISE 321, ISE 390		F	
		ISB 426	3	Design & Analysis of Experiments	ISE 391		S	
		ISB 480	3	Systems Engineering Modeling	ISE 328		S	
			3	Technical Elective	200+ Level Science or Engineering course approved by advisor			
			3		Select System Track Option Courses			
			3					
			3					
			3					
				<b>Aerospace Systems:</b> MAE 200, MAE 272, (MAE 330 or MAE 343)				
				<b>Mechanical Systems:</b> MAE 272, MAE 284, MAE 364				
				<b>Computer Systems:</b> EE 202, CPE 221, CPE 348				
				<b>Control Systems:</b> EE 382, EE 383, EE 386				
		ISB 423	3	Statistical Quality Control	Prereq w/Con: ISE 391		S	
		ISB 430	3	Manufacturing Systems and Facilities Design	ISE 324 or MAE 378		F	
		ISB 433	3	Production & Inventory Control Systems	ISE 390		S	
			3	Technical Elective	200+ Level Science or Engineering course approved by advisor			
			3		Choose from MA 385, ISE 328, ISE 402, ISE 403, ISE 426, ISE 437, ISE 480, or other upper-level courses approved by the Department. May select a maximum of 6 hours from the following: EH 301, ACC 211, MGT 301, MKT 301, MGT 363, or MGT 462.			
			3					

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

Note: No ET courses may be used to satisfy degree requirements.  
\*Summer class offerings are subject to instructor availability