

Academic Checksheet

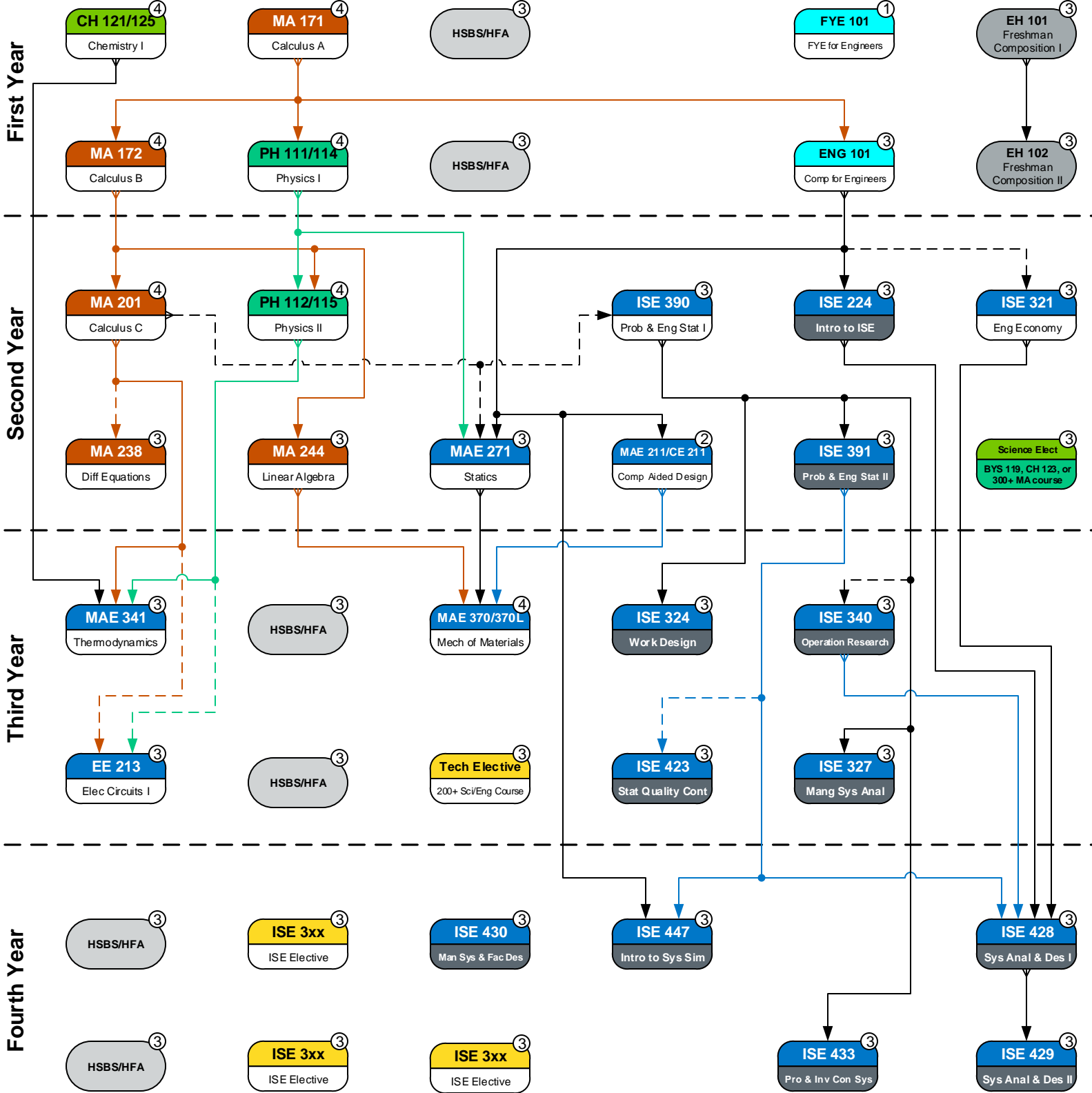


Industrial & Systems Engineering 2017/2018 (127 Hours)

Student A#				Student Name (Last, First MI)		Offered:
Semester, Transfer or AP	Grade	Course Number	Cr Hrs	Course Title	Prerequisites, Corequisites and/or Prerequisites with Concurrency	F=Fall S=Spr M=Sum
English - 6 hours						
		EH 101	3	College Writing I	Placement	FSM
		EH 102	3	College Writing II	EH 101	FSM
Mathematics - 18 hours						
		MA 171	4	Calculus A	MA 113 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 Prereq w/Con: MA 113	FSM
		CH 125	1	General Chemistry Lab I	Prereq w/Con: CH 121	FSM
Physics - 8 hours						
		PH 111	3	General Physics w/Calculus I	MA 171; 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
Science Elective - 3 hours						
			3		BYS 119, CH 123, PH 113, or 300/400 MA course	
History, Social & Behavioral Sciences, Humanities & Fine Arts - 18 hours						
			3	History	HY 103, HY 104, HY 221, or HY 222	FSM
			3	Literature	EH 207 or EH 208	FSM
			3	Fine Art	ARH 100, ARH 101, ARH 103, TH 122, MU 100, or ARS 160	FSM
			3	Social & Behavioral Science	For more information on HSBS/HFA Requirements: http://www.uah.edu/eng/departments/undergraduate-engineering/student-forms	FSM
			3	Sequence Course (HY or EH)		FSM
			3	HSBS/HFA		FSM
First-Year Engineering - 4 hours						
		FYE 101	1	First-Year Experience for Engineers	None	FS
		ENG 101	3	Computing for Engineers	Prereq w/Con: MA 171	SM
**	Class has required lab section Industrial & System Engineering - 54 hours					
		ISE 224	3	Intro to Industrial & Systems Engineering	ENG 101	F
Select One		CE 211	2	Civil Engineering Graphics	ENG 101	FS
		MAE 211	2	Introduction to Computer Aided Design	ENG 101, MA 171	FSM
		MAE 271	3	Statics	ENG 101, PH 111; Prereq w/Con: MA 201	FSM
		EE 213	3	Electrical Circuit Analysis I	Prereq w/Con: PH 112, MA 201	FSM
		ISE 321	3	Engineering Economy	ENG 101	FSM
		ISE 324	3	Work Design	ISE 390	F
		ISE 327	3	Management Systems Analysis	ISE 390	S
		ISE 340	3	Operations Research	Prereq w/Con: ISE 390	F
		MAE 341	3	Thermodynamics I	CH 121, PH 112, MA 201	FSM
**		MAE 370	4	Mechanics of Materials	MAE/CE 271, MA 244, (MAE or CE 211); Coreq: MAE 370L	FSM
		ISE 390	3	Probability & Engineering Statistics I	Prereq w/Con: MA 201	FSM
		ISE 391	3	Probability & Engineering Statistics II	ISE 390	S
		ISE 423	3	Statistical Quality Control	Prereq w/Con: ISE 391	S
		ISE 428	3	Systems Analysis & Design I	ISE 224, ISE 321, ISE 391, Instructor Approval	F
		ISE 429	3	Systems Analysis & Design II	ISE 428	S
		ISE 430	3	Manufacturing Systems and Facilities Design	ISE 324 or MAE 378	F
		ISE 433	3	Production & Inventory Control Systems	ISE 390	S
		ISE 447	3	Intro to Systems Simulation	ENG 101, ISE 391	F
Industrial & Systems Engineering Electives - 9 hours						
			3	Choose from MA 385, ISE 402, ISE 403, ISE 426, ISE 437, or other upper-level courses approved by the Department.		
			3	May select a maximum of 6 hours from the following: EH 301, ACC 211, MKT 301, MGT 363, or MGT 462.		
Technical Elective - 3 hours						
			3	200+ Level Science or Engineering course		

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

Academic Flowchart



Legend
Updated: 9/5/17

Mathematics	First Year Engineering	Freshman Composition	Credit Hours
Physics	Industrial & Systems Engineering Option	History, Social & Behavioral Science Humanity & Fine Art	Prerequisite
Chemistry / Biology	Electives	Offered only in semester listed	Prereq w/concurrency

Industrial and Systems Engineering Department: 4-Year Rolling Class Schedule, Fall 2017 - Spring 2021*

	Fall 2017	Anticipated Sections	Spring 2018	Anticipated Sections	Fall 2018	Spring 2019	Fall 2019	Spring 2020	Fall 2020	Spring 2021
ISE 224 Intro to ISE	Y	1	N	0	Y	N	Y	N	Y	N
ISE 321 Engineering Economy	Y	1	E	1	Y	E	Y	E	Y	E
ISE 324 Work Design	Y	2	N	0	Y	N	Y	N	Y	N
ISE 327 Management Sys Analysis	N	0	Y	1	N	Y	N	Y	N	Y
ISE 340 Operations Research	Y	1	N	0	Y	N	Y	N	Y	N
ISE 390 Probability/Eng Statistics I	Y	1	E	1	Y	E	Y	E	Y	E
ISE 391 Probability/Eng Statistics II	N	0	Y	1	N	Y	N	Y	N	Y
ISE 402 Industrial/Org Psychology	Y	1	N	0	Y	N	Y	N	Y	N
ISE 403 Human Factors Psychology	N	0	Y	1	N	Y	N	Y	N	Y
ISE 423 Statistical Quality Control	N	0	Y	1	N	Y	N	Y	N	Y
ISE 426 Design/Analysis of Exper	N	0	Y	1	N	Y	N	Y	N	Y

ISE 428 Systems Analysis/Design I	Y	1	N	0	Y	N	Y	N	Y	N
ISE 429 Systems Analysis/Design II	N	0	Y	1	N	Y	N	Y	N	Y
ISE 430 Manuf Sys/Facilities Des	Y	1	N	0	Y	N	Y	N	Y	N
ISE 433 Prodn/Inventory Cntrl Sys	N	0	Y	1	N	Y	N	Y	N	Y
ISE 437 Electronics Manufacturing	N	0	N	0	N	N	N	N	N	N
ISE 447 Intro to Sys Simulation	Y	1	N	0	Y	N	Y	N	Y	N

Legend

Y	Course will be offered in designated term.
E	Course will likely be offered in designated term, but availability will be determined by faculty availability and budget.
N	Course will not be offered in designated term.
D	Course may be made available given appropriate demand or interest.

* UAH College of Engineering will make every effort to adhere to the class plan schedule, but it reserves the right to make necessary adjustments based on budget and faculty availability.

** Course has a required lab section.