COLLEGE OF ENGINEERING
THE UNIVERSITY OF ALABAMA IN HUNTSVILLE

Aerospace Engineering 2024/2025 (128 Hours) Academic Checksheet

Student A# | **Student Name (Last, First)**

	Semester, Transfer or AP	Grade	Course Number	Cr Hrs	Course Title	Prerequisites, Corequisites and/or Prerequisites with Concurrency	Offered: 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 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*
					Chemistry - 4 hours		
			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*
					Physics - 8 hours		
			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*
					Science Elective - 3 hours		
				3		BYS 119, CH 123, PH 113, or 300/400 MA course	FSM*
					History, Social & Behavioral Sciences, Humanities & Fine Arts - 18 hours		
				3	History	For more information on HSBS/HFA Requirements: http://www.uah.edu/eng/departments/undergraduate-engineering/student-forms	FSM*
				3	Literature		FSM*
				3	Fine Art		FSM*
				3	Social & Behavioral Science		FSM*
				3	Sequence Course (HY or EH)		FSM*
				3	HSBS/HFA		FSM*
					Engineering - 4 hours		
			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, MAE 272	FS
**	Class has required lab section				**Aerospace Engineering - 61 hours**		
			MAE 200	3	Principles of Aeronautics & Astronautics	EGR 101, MA 172, PH 111; Prereq w/Con MAE 211	FS
			MAE 211	2	Introduction to Computational Tools	EGR 101, MA 171 or MA 151	FSM*
			EE 213	3	Electrical Circuit Analysis I	Prereq w/Con: PH 112, MA 201	FSM*
			MAE 271	3	Statics	EGR 101, PH 111; Prereq w/Con: MA 201	FSM*
			MAE 272	3	Dynamics	MA 201, MAE/CE 271	FSM*
**			MAE 284	3	Numerical Methods	MA 244; Prereq w/Con: MAE 211, MA 238; Coreq: MAE 284L	FSM*
**			MAE 311	3	Principles of Measurement & Instrumentation	EE 213, MAE 284; Coreq MAE 311L	FSM*
			ISE 321	3	Engineering Economy	EGR 101	FSM*
			MAE 330	3	Fundamentals of Aerodynamics	MAE 200, MAE 272, MA 238; Coreq: MAE 331	FS
			MAE 331	1	Aerodynamics Lab	Coreq: MAE 330	FS
			MAE 341	3	Thermodynamics I	CH 121, PH 112, MA 201	FSM*
			MAE 343	3	Compressible Aerodynamics	MA 238, MAE 284, MAE 330, MAE 341	FSM*
			MAE 370	3	Mechanics of Materials	MAE/CE 271, MA 244, (MAE 211, CE 211 or CPE 211); Coreq: MAE 375	FSM*
			MAE 375	1	Mechanics of Materials Lab	Coreq: MAE 370	FSM*
			MAE 371	3	Aerospace Structures	MAE 200, MAE/CE 370	FS
Select One			MAE 440	3	Rocket Propulsion I	MAE 343	F
			MAE 441	3	Airbreathing Propulsion	MAE 343	S
			MAE 469	3	Introduction to Astrodynamics	MAE 284, MAE/CE 272	FS
			MAE 471	3	Advanced Aero Structure & Materials	MAE 311, MAE 371	FS
			MAE 480	3	Aircraft Stability & Control	MAE 330, MAE 488	FS
			MAE 488	3	Analysis of Engineering Systems	EE 213, MAE/CE 272, MAE 284	FSM*
			MAE 490	3	Senior Design I	ISE 321, MAE 311, MAE 330, MAE 341, MAE 371, MAE 375, EGR 399	FSM*
			MAE 491	3	Senior Design II	Corresponding MAE 490 Section, or Instructor Approval	FS
					Technical Elective - 6 hours		
				3		300+ Level course approved by advisor: list of approved Technical Electives at http://www.uah.edu/eng/departments/undergraduate-engineering/student-forms	
				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***