

AEROSPACE ENGINEERING		
FALL	WINTER	SPRING
Year 1		
MAE 2- Intro to Aerospace	Math 20E	MAE 131A- Solid Mechanics
MAE 8- Intro. To MatLab	MAE 30A- Statics and Intro to Dynamics	MAE 30B- Dynamics & Vibrations
*MAE 21-Aerospace Materials Science	GE (College requirement)	GE
	GE	GE
Year 2		
MAE 11- Thermodynamics	*MAE 101A- Intro to Fluids	*MAE 101B- Advance Fluids
*MAE 105- Mathematical Physics	*MAE 143A- Signals and Systems	*MAE 143B- Linear Control
MAE 107- Computational Methods	TE (Technical Elective)	MAE 170- Experimental Technique
MAE 180A- Spacecraft Guidance	*SE 160A- Aerospace Structural Mechanics I	*SE 160B- Aerospace Structural Mechanics II
Year 3		
*MAE 101C- Heat Transfer	*MAE 155A- Aerospace Design	*MAE 155B- Aeronautics Design
*MAE 104- Aerodynamics	*MAE 175A- Engineering Lab	GE
GE	*MAE 142- Dynamics and Controls	GE
GE	*MAE 113- Propulsion	TE

MECHANICAL ENGINEERING		
FALL	WINTER	SPRING
Year 1		
MAE 3- Graphics and Design	Math 20E	MAE 131A- Solid Mechanics
MAE 8- Intro. To MatLab	MAE 30A- Statics and Intro to Dynamics	MAE 30B- Dynamics & Vibrations
MAE 20- Materials Science	GE (College requirement)	TE (Technical Elective)
	GE	GE
Year 2		
MAE 11- Thermodynamics <i>(Formerly MAE 110A)</i>	*MAE 101A- Intro to Fluids	*MAE 101B- Advance Fluids
*MAE 105- Mathematical Physics	*MAE 143A- Signals and Systems	*MAE 143B- Linear Control
MAE 107- Computational Methods	TE	MAE 170- Experimental Technique
MAE 40- Linear Circuits	*MAE 160 or *MAE 131B	GE
Year 3		
*MAE 101C- Heat Transfer	*MAE 156A- Design Lab I	*MAE 156B- Design Lab II
*MAE 150- Computer-Aid Design	*MAE 171A- Engineering Lab I	TE
TE (Technical Elective)	TE	GE
GE	GE	GE

This academic plan assumes that you have completed all of the following courses at your previous college:

Calculus I for Science and Engineering (MATH 20A), Calculus II for Science and Engineering (MATH 20B), Calculus and Analytic Geometry (MATH 20C), Differential Equations (MATH 20D), (MATH 18), Complete calculus-based physics series (PHYS 2A, B, C), and general chemistry (CHEM 6A for Mech and Aero; CHEM 6A, B, C for Env)

e not completed all the courses listed above, this plan is not suitable for you.

Please come and speak to an academic advisor as soon as possible to plan accordingly.

Courses offered in the recommended quarters will not overlap in day/times, midterms, finals, etc. with the other courses. However, if you move courses outside their recommended quarter, we cannot guarantee that they will not overlap with other courses. Deviation from this recommended academic plan could delay graduation. Therefore, please avoid moving courses around unless necessary.

***ASTERISK DENOTES A COURSE THAT MUST BE TAKEN AT LEAST BY THAT QUARTER TO GRADUATE IN THREE YEARS**

Subject	Course #	Title	Prerequisites	Course is prerequisite for MAE ___:	Quarter/s Usually Offered
MAE	2	Intro to Aerospace Eng.		155A	F
MAE	8	Matlab Programming for Eng. Analysis	Math 20A, Math 20B	107	F, W, S
MAE	11 (prev. 110A)	Thermodynamics	Phys 2C, CHEM 6A	101B, 113	F, W
MAE	21	Aerospace Materials Science	Phys 2A (or 4A), Chem 6A, Math 20B	SE 160A, MAE 155A	F
MAE	30A (prev. 130A)	Statics & Intro to Dynamics	Math 20C, Phys 2A	30B (130B), 131A	F, W
MAE	30B (prev. 130B)	Dynamics & Vibrations	MAE 30A (130A)	SE 160A	S
MAE	101A	Intro Fluid Mechanics	Phys 2A, Math 20D, Math 20E	101B, 101C, 104, 113	F, W
MAE	101B	Advanced Fluid Mechanics	MAE 11 (or 110A), MAE 101A	101C, 104, 113	W, S
MAE	101C	Heat Transfer	MAE 101A, MAE 101B, MAE 105	175A	F
MAE	104	Aerodynamics	MAE 101A, MAE 101B	142, 155A	F
MAE	105	Intro to Mathematical Physics	Phys 2A, Phys 2B, Math 20D	101C	F, S
MAE	107	Computational Methods in Engineering	MAE 8, Math 18 (or 20F)		F, S
MAE	113	Fundamentals of Propulsion	MAE 11 (or 110A), MAE 101A, MAE 101B	155B	W
MAE	131A	Solid Mechanics I	Math 20D, MAE 30A (130A)	SE 160A	F, S
MAE	142	Dynamics and Control of Aerospace Vehicles	MAE 104, MAE 143B	155B	W
MAE	143A	Signals and Systems	Math 20D, Math 20E, Math 18 (or 20F)	143B	W
MAE	143B	Linear Control	MAE 143A	142, 175A	S
MAE	155A	Aerospace Eng. Design I	MAE 2, MAE 21 (or SE 2 or SE 104), MAE 104, MAE 30B (or 130C), SE 160A	155B	W
MAE	155B	Aerospace Eng. Design II	MAE 113, MAE 142, MAE 155A, MAE 170		S
MAE	170	Experimental Techniques	PHYS 2C & PHYS 2CL (or MAE 40/140)	155B, 175A	F, S
MAE	175A	Aerospace Eng. Lab I	MAE 101C, MAE 143B, MAE 170		W
MAE	180A	Spacecraft Guidance			F
SE	160A	Aerospace Structural Mechanics I	MAE 21 (or SE 2/L), MAE 30B (130B), MAE 131A	155A, SE 160B	W
SE	160B	Aerospace Structural Mechanics II	SE 160A		S