

AEROSPACE ENGINEERING			MECHANICAL ENGINEERING		
FALL	WINTER	SPRING	FALL	WINTER	SPRING
Year 1			Year 1		
MAE 2- Intro to Aerospace Eng	Math 20E	MAE 30B- Dynamics & Vibrations	MAE 3- Graphics and Design	Math 20E	MAE 30B- Dynamics & Vibrations
MAE 8- MatLab	MAE 30A- Statics and Intro to Dynamics	MAE 131A- Solid Mechanics	MAE 8- MatLab	MAE 30A- Statics and Intro to Dynamics	MAE 131A- Solid Mechanics
*MAE 21-Aerospace Materials Science	GE (College requirement)	TE (Technical Elective)	MAE 20- Materials Science	GE (College requirement)	TE (Technical Elective)
	GE	GE		GE	GE
Year 2			Year 2		
MAE 11-Thermodynamics	*MAE 101B- Advanced Fluids	*MAE 104- Aerodynamics	MAE 11-Thermodynamics	*MAE 101A- Intro to Fluids	*MAE 101B- Advanced Fluids
*MAE 101A- Intro to Fluids	*MAE 143A- Signals and Systems	*MAE 143B- Linear Control	*MAE 105-Intro to Mathematical Physics	*MAE 143A- Signals and Systems	*MAE 143B- Linear Control
*MAE 105- Intro to Mathematical Physics	*SE 160A- Aerospace Structural Mechanics I	MAE 170- Experimental Techniques	MAE 107- Computational Methods	TE	MAE 170- Experimental Techniques
MAE 107- Computational Methods in Eng	TE	GE	MAE 40- Linear Circuits	*MAE 160 or *MAE 131B	GE
Year 3			Year 3		
*MAE 113- Propulsion	*MAE 155A- Aerospace Eng Design I	*MAE 155B- Aerospace Eng Design II	*MAE 101C- Heat Transfer	*MAE 156A- Design Lab I	*MAE 156B- Design Lab II
*MAE 142- Dynamics and Controls	*MAE 175A- Engineering Lab	TE	*MAE 150- Computer-Aided Design	*MAE 171A- Engineering Lab	TE
TE	TE	GE	TE	TE	GE
GE	GE	TE	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), Linear Algebra (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)

***If you have 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.**

*** Summer courses are outside the regular academic year and can be cancelled for any reason. Therefore, students should not count on those courses in the event they are cancelled and possibly delay graduation.**

***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	104	Aerodynamics	MAE 101A, MAE 101B	142, 155A	S
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	F
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	F
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 143B, MAE 170		W
SE	160A	Aerospace Structural Mechanics I	MAE 21 (or SE 2/L), MAE 30B (130B), MAE 131A	155A	W

All courses must be taken for a letter grade (no P/NP) For more information, please contact an MAE undergraduate advisor: mae-ugradadm@ucsd.edu