

5-Year UNDERGRADUATE CURRICULUM PLAN
Bachelor of Science in Aerospace Engineering (Code: MAE_BS02)
Effective 2004-2005 Catalog Year

F=Fall only; S=Spring only; F,S=offered both Fall and Spring

<u>1st YEAR</u>					
<u>FIRST SEMESTER</u>			<u>SECOND SEMESTER</u>		
<u>COURSE</u>	<u>TITLE</u>	<u>UNITS</u>	<u>COURSE</u>	<u>TITLE</u>	<u>UNITS</u>
MAE 101A	Intro to Aerospace Engineering	1 (F)	MATH 123	Calculus II (B2)	4
UNIV 100	Intro to the University	1	PHYS 151	Mech. & Heat (B1b)	4
MATH 122	Calculus 1 (B2)	4	GEN ED	General Education (A2)	3
GEN ED	General Education (A1)	3	GEN ED	General Education (B1a or C3 or E)	3
GEN ED	General Education (D1b)	3			
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		12			14
<u>2nd YEAR</u>					
MATH 224	Anal. Geom. & Calc. III	4	CHEM 111A	General Chemistry (B1b)	5
PHYS 152	Elec. & Magnetism (B1b)	4	CE 205	Anal Mech I (Statics)	3
MAE 172	Engineering Graphics	3 (F,S)	EE 211	Electric Circuits I	3
GEN ED	General Education (A3)	3	EE 211L	Electric Circuits Laboratory	1
			MAE 205	Computer Methods in ME	2 (F,S)
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		14			14
<u>3rd YEAR</u>					
MATH 370A	Applied Math I	3	MAE 330	Engr. Thermodynamics I	3 (F,S)
ECON 300	Fund. of Economics (D2b)	3	MAE 373	Mech. of Deformable Bodies	3 (F,S)
MAE 371	Anal. Mech. II (Dynamics)	3 (F,S)	MAE 390	AE Seminar & Comm. Skills	1 (S)
GEN ED	General Education (C1)	3	GEN ED	General Education (D1a)	3
GEN ED	General Education (D2a)	3	GEN ED	General Education (C2a,b, or c)	3
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		15			13
<u>4th YEAR</u>					
MAE 333	Engr. Fluid Mechanics	3 (F)	MAE 334	Aerodynamics I	3 (S)
MAE 350	Flight Mechanics	3 (F)	MAE 365	Aerospace Structures I	3 (S)
MAE 408	Systems Engr. & Integration	3 (F,S)	MAE 381	Space Environments	3 (S)
GEN ED*	General Education (C2a,b,or c)	3	MAE 453	Stability & Cont Aero Vehicles	3 (S)
MAE 374	Mech. Prop. Matls. Lab	1 (F,S)			
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		13			12
<u>5th YEAR</u>					
MAE 434	Aerodynamics II	3 (F)	MAE 452	Propulsion	3 (S)
MAE 465	Aerospace Structures II	3 (F)	MAE 479	A/S System Design II	3 (S)
MAE 478	A/S System Design I	3 (F)	MAE 486	Avionics Systems	3 (S)
MAE 483	Space Flight & Orbital Mech.	3 (F)	MAE XXX	Elective	3
			MAE 440	Aerodynamics Lab	1 (S)
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		12			13

***General Education:** A minimum of nine (9) units of Upper-Division (UD) are required. Six (6) units must be Upper-Division Interdisciplinary (UDI) in one particular THEME (please see the College of Engineering section in the University Catalog). A minimum of nine (9) units of Capstone courses (▲), with three (3) units of Global (●) and three (3) units of Human Diversity (◆), are required. Please consult a General Education advisor.

The above 132 units minimum program allows for a six (6) unit General Education waiver (3 units in category D2, and 3 in B1a or C3 or E). All IC and category A classes must be taken for a letter grade. Students are advised to plan their programs with care in order to meet all departmental and General Education requirements within 132units.

Revised 10/15/03