

ME Student Outcomes

			Student Outcomes						
Course No.	Course Title	Primary Prerequisites	1	2	3	4	5	6	7
MAE 3013	Engineering Analysis	MATH2233, PHYS 2114	x		x				
MAE 3113	Measurements	ENSC 2123, 2613, MAE 3013	x	x	x	x	x		x
MAE 3233	Heat Transfer	ENSC 3233	x	x					
MAE 3324	Mechanical Design I	ENSC 2113, 2143, 3313	x	x		x	x	x	x
MAE 3403	Computer Methods	MAE 3013 ENGR 1412	x	x					x
MAE 3524	Thermal Fluids Design	ENSC 2213, 3233, MAE 3233 pre or co	x	x	x	x	x		x
MAE 3724	Dynamic Systems	ENSC 2123, 2613, MAE 3013	x	x	x	x			
IEM 3503	Engineering Econ	MATH 2153							
Student contact with each ABET Student Outcome			7	6	4	4	3	1	4
Realization Category			Student Outcomes						
Course No.	Course Title	Primary Prerequisites	1	2	3	4	5	6	7
*MAE 4243	Propulsion and Power	ENSC 3233, MAE 3293	x	x		x	x	x	x
MAE 4263	Energy Conversion	MAE 3233, MAE 3524	x	x		x	x	x	x
MAE 4703	Design Indoor Environmental Systems	MAE 3233, MAE 3524	x	x		x	x	x	x
MAE 4713	Thermal Systems Realization	ENSC 2213, 3233, MAE 3524	x	x		x	x	x	x
MAE 4723	Refrigeration Systems Design	MAE 3233, MAE 3524	x	x		x	x	x	x
MAE 4353	Mechanical Design II	MAE 3324	x	x		x	x	x	x
*MAE 4513	Aerospace Structures	MAE 3324	x	x	x	x	x	x	x
MAE 4363	Advanced Methods in Design	MAE 3113, 3324	x	x	x	x	x	x	x
MAE 4623	Biomechanics	MATH 2163, ENSC 2123, 2143, MAE3324	x	x		x	x	x	x
Student contact with each ABET Student Outcome			1	1	0	1	1	1	1
Capstone Design Category			Student Outcomes						
Course No.	Course Title	Primary Prerequisites	1	2	3	4	5	6	7
MAE 4344	Design Projects	MAE 3233, MAE 3113, MAE 3323	x	x	x	x	x	x	x
*MAE 4354	Aerospace System Design for ME	MAE 3233, MAE 3113, MAE 3323	x	x	x	x	x	x	x
Student contact with each ABET Student Outcome			1	1	0	1	1	1	1
MAE Electives (includes courses not taken in Realization Category)			Student Outcomes						
Course No.	Course Title	Primary Prerequisites	1	2	3	4	5	6	7
MAE 3033	Design of Machines & Mechanisms	ENGR 1332, ENSC 2123	x	x		x	x		x
MAE 3123	Manufacturing Processes	ENSC 2143, 3313	x	x					
MAE 3223	Thermo II	ENSC 2213	x					x	
*MAE 3253	Applied Aerodynamics & Performance	MATH 2233, ENSC 3233, MAE 3293	x	x	x	x			
*MAE 3293	Fundamentals of Aerodynamics	MATH 2233, ENSC 2213, 3233	x	x	x				
MAE 4053	Automatic Control Systems	MAE 3724	x	x		x	x	x	x
MAE 4063	Mechanical Vibrations	MAE 3724	x	x		x			
MAE 4273	Experimental Fluid Dynamics	ENSC 3233, MAE 3113	x	x	x	x	x	x	x
*MAE 4283	Aerospace Vehicle Stability & Control	ENSC 2123, MAE 3253, 3724	x	x	x	x	x		x
MAE 4313	Advanced Processing of Engineering Materials	ENSC 3313	x	x		x		x	x
MAE 4333	Metallurgy	ENSC 3313	x	x	x	x		x	x
MAE 4583	Corrosion	ENSC 3313	x	x	x	x		x	x
MAE 4733	Mechatronics	MAE 3113, 3403	x	x	x	x	x		x
Student contact with each ABET Student Outcome			2	1	0	0	0	0	0
Total student contact with each ABET SO			11	9	4	6	5	3	6