

M.E. Dept: 3-yr Course Offering Plan

Updated 4/5/11

Course	Cr.	Course Title*	Rotation**	Fall	Spring	Sum	Fall	Spring	Sum	Fall	Spring	Sum
				2010	2011	2011	2011	2012	2012	2012	2013	2013
ME 2001	2	Elem. Mech. Engr. Analysis	a	X	X	on dmd	X	X	on dmd			
ME 2330	3	Dynamics	b	X	X	X	X	X	X	X	X	X
ME 3001	3	Mech Engr Analysis	a							X	X	
ME 3010	3	Materials & Proc. In Manuf.	a	X	X		X	X		X	X	
ME 3023	3	Measurements in Mech. Sys.	a	X	X		X	X		X	X	
ME 3050	3	Dyn. Modeling & Controls	a	X	X		X	X		X	X	
ME 3060	1	Dyn. Modeling & Controls Lab	a	X	X		X	X		X	X	
ME 3110	3	Phys. Metall. & Heat Treatment	c	X			X			X		
ME 3210	3	Thermodynamics I	b	X	X	on dmd	X	X	on dmd	X	X	on dmd
ME 3220	3	Thermodynamics II	a	X	X		X	X		X	X	
ME 3610	3	Dynamics of Machinery	a	X	X		X	X		X	X	
ME 3710	3	Heat Transfer	a	X	X		X	X		X	X	
ME 3720	3	Fluid Mechanics	b	X	X	on dmd	X	X	on dmd	X	X	on dmd
ME 3900	3	Professsionalism & Design	a							X	X	
ME 3910	1	ME Seminar	a	X	X		X	X				
ME 4010	3	Machine Design	a	X	X		X	X		X	X	
ME 4020	3	Applied Machine Design	a	X	X		X	X		X	X	
ME 4060	3	Machine Vibrations*	d		X			X			X	
ME 4120	3	Intermediate Dynamics*	e					X			X	
ME 4140	3	Introduction to Robotics*	g				X					
ME 4160	3	Experimental Stress Analysis*	d		X			X			X	
ME 4180	3	Finite Element Methods in ME*	d		X			X			X	
ME 4190	3	Adv. Mechanics of Materials*	c	X			X			X		
ME 4210	3	Refrigeration & AC*	c	X			X			X		
ME 4220	3	Air Conditioning Design*	od									
ME 4260	3	Energy Cons. & Conversion*	c	X			X			X		
ME 4310	3	Gas Dynamics*	d		X			X			X	
ME 4370	3	Mechatronics*	d		X			X			X	
ME 4430	3	Micro- & Nano Manufacturing*	n/a									
ME 4444	4	Sr. Design Project	b	X	X	X	X	X	X	X	X	X
ME 4450	3	Design for Manufacturability*	n/a									
ME 4460	3	Mechanical Prop. Of Materials*	c	X			X			X		
ME 4470	3	Inter. Stud. Ceramic Mat. Proc.*	c	X			X			X		
ME 4480	3	Microstructural Analysis*	d		X			X			X	
ME 4490	3	Prop. & Sel. Of Engr. Materials*	n/a									
ME 4510	3	Aerodynamics*	c	X			X			X		
ME 4610	3	Steam Power Plants*	d		X			X			X	
ME 4620	3	Turbomachinery*	d		X			X			X	
ME 4630	3	Internal Combustion Engines*	d		X			X			X	
ME 4640	3	Dynamics of Machinery II*	g	X						X		
ME 4720	3	Thermal Design	b	X	X	X	X	X	X	X	X	X
ME 4730	3	Numerical Heat Transfer*	c	X			X			X		
ME 4751	2	Energy Systems Lab	a	X	X		X	X		X	X	
ME 4810	3	Modern Controls*	c	X			X			X		

ME 4930	3	Noise Control*	d		X			X			X	
ME 4950	3	Introduction to MEMS*	d		X			X			X	
ME 5020	3	Applied Machine Design	a	X	X		X	X		X	X	
ME 5060	3	Machine Vibrations*	d		X			X			X	
ME 5120	3	Intermediate Dynamics*	e					X			X	
ME 5140	3	Introduction to Robotics*	g				X					
ME 5160	3	Experimental Stress Analysis*	d		X			X			X	
ME 5180	3	Finite Element Methods*	d		X			X			X	
ME 5190	3	Adv. Mechanics of Materials*	c	X			X			X		
ME 5260	3	Energy Conversion and Conservation*	c	X			X			X		
ME 5310	3	Gas Dynamics*	d		X			X			X	
ME 5370	3	Mechatronics*	d		X			X			X	
ME 5460	3	Mechanical Properties of Materials*	c	X			X			X		
ME 5470	3	Int. Stud. Ceramic Mat. Proc.*	c	X			X			X		
ME 5480	3	Microstructural Analysis*	d		X			X			X	
ME 5490	3	Prop. And Sel. Of Engineering Materials	n/a									
ME 5510	3	Aerodynamics*	c	X			X			X		
ME 5620	3	Turbomachinery*	d		X			X			X	
ME 5640	3	Dynamics of Machinery II*	g	X						X		
ME 5730	3	Numerical Heat Transfer*	c	X			X			X		
ME 5930	3	Noise Control*	d		X			X			X	
ME 5950	3	Introduction to MEMS*	d		X			X			X	
ME 6010	3	Conduction Heat Transfer	d		X			X			X	
ME 6030	3	Radiation Heat Transfer	g				X			X		
ME 6040	3	Intermediate Fluid Mechanics	c	X			X			X		
ME 6050	3	Convection Heat Transfer	d		X			X			X	
ME 6210	3	Advanced Thermodynamics	d		X			X			X	
ME 6360	3	Introduction to Continuum Mechanics	d		X			X			X	
ME 6370	3	Vibrations of Continuous Media	f		x							
ME 6430	3	Fundamentals of Acoustics	g				X					
ME 6440	3	Applied Acoustics	g	X								
ME 6510	3	Motion Prog. Of Planar Mechanisms	e		X							
ME 6610	3	Advanced Machine Design I	c	X			X			X		
ME 6620	3	Advanced Machine Design II	d		X			X			X	
ME 6640	3	Advanced Robotics	g				X			X		
ME 6710	3	Advanced Dynamics of Machinery	e		X							
ME 6730	3	Modal Vibration Analysis	g	X								
ME 6810	3	Advanced Material Science I	e					X			X	
ME 6830	3	Advanced CAD	c	X			X			X		
ME 6930	3	Theory of Elasticity	c	X			X			X		
ME 6XXX	3	Combustion	g	X								
ME 7060	3	Advanced Numerical Heat Transfer	g				X			X		

ME 7070	3	Fluid Mechanics of Suspensions	e					X			X	
ME 7080	3	Advanced Viscous Flow	g	X								
ME 7090	3	Computational Fluid Mechanics			X							
ME 7100	3	Turbulence	g				X			X		
ME 7510	3	Space Mechanisms	e					X			X	
ME 7600	3	Plates and Shells	e					X			X	
ME 7610	3	Finite Element Analysis I	d		X			X			X	
ME 7620	3	Finite Element Analysis II	g				X			X		
ME 7630	3	Boundary Element Method	g	X								
ME 7660	3	Fracture Mechanics	e		X							
ME 7670	3	Composite Materials	g	X								
ME 7720	3	Trans. Func. Syn. Dyn. Systems (6 sem.)	h		X							
ME 7810	3	Advanced Material Science II	e		X							
ME 7930	3	Physical Acoustics (6 sem.)	h				X					

* AOC

** **Rotation Schedule:**

a Fall & Spring, each year

b Fall, Spring, Summer, ea. yr.

c Fall, each year

d Spring, each year

e Spring, every 2nd year

f 3-Sem. Rotation

g Fall, every 2nd year

h 6-Sem. Rotation

on dmd On Demand

n/a Not Available