

CALIFORNIA STATE POLYTECHNIC UNIVERSITY, POMONA
MECHANICAL ENGINEERING DEPARTMENT

FREQUENCY OF OFFERING OF REQUIRED CORE COURSES
SUBJECT TO AVAILABILITY OF FACULTY AND STUDENT DEMAND

FALL 2007

Course #	Title	Fall 07	Winter 08	Spring 08	Summer 08
ME100	ME Orientation	*	*		
ME214	Vector Statics	*	*	*	*
ME215	Vector Dynamics I	*	*	*	*
ME 217	Engineering Mechanics	*	*		
ME218	Str of Mat. I	*	*	*	*
ME219	Str of Mat II	*	*	*	
ME220	Str of Mat lab	*	*	*	*
ME 224L	Mechanics Lab	*	*	*	*
ME231	ME Communications	*	*	*	
ME232/A	Engr Digital Comp	*	*	*	
ME233/L	Intro to Mech Design	*	*	*	
ME301	Thermodynamics I	*	*	*	*
ME302	Thermodynamics II	*	*	*	
ME311	Fluid Mech. I	*	*	*	*
ME312	Fluid Mech II		*	*	
ME313/L	Fluid Mech Lab		*	*	
ME315	Engr. Mat.	*	*	*	
ME316	Vector Dynamics II	*		*	
ME319	Stress Analysis		*	*	
ME325/L	Machine Design	*		*	
ME330	Engr Num. Comp.		*		
ME340	Modeling of Systems	*		*	
ME350L	Engr. Mat. Lab	*	*	*	
ME 406	Finite Elements	*	*		
ME415	Heat Transfer	*		*	
ME 418/L	Air Conditioning			*	
ME 427	Thermal Systems Design	*	*		
ME435	Adv. Engr. Measurements		*	*	
ME 439	Control of Mechanical Systems	*		*	
ME463	Under grad Senior Seminar	*		*	
ME 460	Senior Project	*	*	*	
ME461	Senior Project	*	*	*	
ME 462	Senior Project	*	*	*	
ME 471	Professional Practice	*	*	*	
ME 472	Professional Practice	*	*	*	
ME 473	Professional Practice	*	*	*	

CALIFORNIA STATE POLYTECHNIC UNIVERSITY, POMONA
MECHANICAL ENGINEERING DEPARTMENT

TWO YEAR PROJECTION FOR TECHNICAL ELECTIVES
SUBJECT TO AVAILABILITY OF FACULTY AND STUDENT DEMAND

FALL 2007

Course #	Units	Title	Director	F07	W08	Sp08	F08	W09	Sp09
ME									
299A	2	3-D Visualization		1	2		1	1	
299L	1	Machine Tool Theory & Applications		1	1		1	1	
307	4	Alternative Energy Systems	Miller		1			1	
405	4	Acoustics	Gates			1			1
406/A	3/1	Finite Elements	Caffrey	1	1		1	1	
407/L	3/1	Solar Thermal Energy	Biddle						
408	4	Nuclear Energy	Miller	1			1		
411/L	3/1	Heat Power	Miller	1			1		
412/L	3/1	Internal Combustion Engines	Miller			1			1
413	4	Mechanical Vibrations	Fan	1			1		
418	4	Air conditioning*	Xue			1			1
421	4	Kinematics & Dynamics of Machinery	Jawa			1			1
425/L	3/1	Machine Design & Analysis	Glozman			1			1
427	4	Thermal Systems Design*	Ritz	1	1		1	1	
438	4	Human Engr. in Design**	Glozman						
439	4	Design of Mach. Controls	Anderson			1			1
499/L	3/1	Autonomous Vehicle Design	Anderson				1		
499	4	Introduction to Robotics	Fan					1	
499	4	Mechanics of Composite Materials	Rejali					1	
499/L	3/1	Design Applications	Cook	1			1		

*Students on 99-00 and later flowcharts may take only one of these courses for tech. elec. credit

** Offered upon student demand

		Totals		8	5	6	9	7	6
All graduate courses in Mechanical Engineering are acceptable as tech electives via a student petition									
EGR									
	513	TENSOR ANALYSIS							
	514	VARIATIONAL MTHODS							
	515	MATRIX METHODS							
	520	ELASTICITY							
	521	STRUCTURAL DYNAMICS			*			*	
	535	ADV. FLUID DYNAMICS							
	536	ADV. CLASSICAL DYNAMICS							
	545	ADV. THERMODYNAMICS							
	556	ADV. MECH. OF MAT.					*		
	557	ANALYSIS OF MECH. DESIGN		*			*		
	564	RADIATION HEAT TRANSFER							
	570	N ONLINEAR DYNAMICS							
	576	COMBUSTION THEORY							
	584	CONVECTIVE HEAT TRANSFER							
	590	SOLAR ENERGY SYSTEMS						*	
	591	DIRECT ENERGY CONVERSION							
	595	BOUNDARY LAYER CONCEPTS							
	599	POTENTIAL FLUID FLOW							
	632	COMP. FLUID DYNAMICCS							