

MAPPING: CURRICULUM AND PROGRAM LEARNING OBJECTIVES

Mapping Program Educational Objectives with Program Outcomes

Program Outcome	PROGRAM EDUCATIONAL OBJECTIVES					
	(1) Employment success	(2) Graduate Degrees	(3) Problem Solving	(4) Computer Skills	(5) Communication Skills	(6) Independent Learning
a) Apply M-S-E	✓	✓	✓	✓		✓
b) Experiments	✓	✓				
c) Design constrains	✓				✓	✓
d) Team work	✓		✓		✓	
e) Problem solving	✓		✓	✓		
f) Professional ethics	✓				✓	✓
g) Communication	✓	✓			✓	
h) Global impacts	✓		✓		✓	
i) Life-long learning	✓	✓	✓			✓
j) Contemporary issues	✓		✓			
k) Engineering tools	✓		✓	✓		

Mapping Mae Required Courses with Program Outcomes

MAE REQUIRED COURSES		PROGRAM OUTCOMES										
ENGR		a	b	c	d	e	f	g	h	i	j	k
2200	EE for non-majors											
2000	Statics	X										
2020	Dynamics	X										
2040	Strength of Materials											
MAE												
1200	Engr Graphics											
2160	Material Science	X	X		X	X		X	X			
2200	Engr Numerical Mthds I	X				X		X				X
2210	Numerical Methods II	X				X		X				X
2400	Thermodynamics I	X				X		X				X
2600	Mfg. Processes											
3040	Mechanics of Solids	X		X		X						X
3320	Advanced Dynamics	X				X				X	X	X
3340	Instr. & Measurements	X	X	X	X	X		X				X
3400	Thermodynamics II	X		X	X	X		X	X	X	X	
3420	Fluid Mechanics	X				X		X				X
3440	Heat & Mass Transfer											
3800	Design I	X		X	X	X	X	X	X		X	X
4300	Machine Design	X	X	X		X		X				X
4400	Fluids/Thermal Lab	X	X	X				X				
4800	Design II			X	X			X	X	X	X	X
5300	Vibrations	X				X	X	X	X	X	X	X