

Competency Matrix

COURSE: CIEG 211 Statics

SEMESTER: Fall 2001

Learning Objectives		Learning Level				
		I	II	III	IV	V
General Principles	Units					
	Significant Figures					
Concurrent Force Systems	Resultants of Forces					
	Component Resolution					
Statics of Particles	Free Body Diagrams					
	Equilibrium of Particles					
Rigid Bodies	Moments 2D/3D					
	Couples					
	Simplification of Force Systems					
Centroids and Center of Gravity	Center of Gravity/Mass					
	Centroids					
Rigid Body Equilibrium	2 Dimensional Equilibrium					
	3 Dimensional Equilibrium					
Truss, Frames and Machines	Plane Trusses					
	Frames					
	Machines					
Friction	Coulomb Friction					
Internal Forces	Axial Forces					
	Bending Forces					

Level of Learning: Please consult the “level descriptions” page for more detailed descriptions.

Level I: Knowledge

Level II: Comprehension

Level III: Application

Level IV: Analysis

Level V: Synthesis

05/15/2003