

Mapping of Courses to Applicable Program Outcomes (IE Business Engineering Option)

Industrial Engineering (Business Engineering Option)	Ability to apply mathematics, science, and engineering	Ability to design and conduct experiments as well as to analyze and interpret data	Ability to design a system, component, or process to meet desired needs	Ability to function on multi-disciplinary teams	Ability to identify, formulate, and solve engineering problems	Understanding of professional and ethical responsibility	Ability to communicate effectively	Broad education necessary to understand the impact of engineering solutions in a global and societal context	Recognition of the need for, and an ability to engage in life-long learning	Knowledge of contemporary issues	Ability to use the techniques, skills, and modern engineering tools necessary for engineering practice	Ability to design, develop, and improve integrated systems that include people, materials, information, and energy	Ability to integrate systems using appropriate analytical, computational, and experimental practices
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(aaa)	(bbb)
COURSE	ALL ENGINEERING PROGRAMS OUTCOMES											IE PROGRAM OUTCOMES	
IE 285			X		X	X	X	X					
ENGR 112	X				X						X		
ENGR 248	X					X					X		
ENGR 390	X				X								
IE 337	X	X	X							X	X	X	
IE 355	X	X			X						X		X
IE 356	X	X	X		X		X				X	X	X
IE 366	X				X	X	X	X			X	X	X
IE 367						X	X				X		X
IE 368	X		X		X		X			X		X	X
IE 412			X	X	X		X	X		X	X	X	X
IE 415	X	X		X	X		X		X		X		X
IE 425	X				X						X		X
IE 497/ IE 498			X	X		X	X		X			X	
IE 470			X			X			X	X		X	
IE 471		X									X		
IE 475	X			X		X	X	X		X	X		X