Alignment Matrix for Chemical Engineering Graduate Programs

SLO/Required Courses/experiences	Required courses				Elective courses	Other Experience	Thesis/ Report	Thesis/Report Defense (Final exam)
	Course numbers							
Degree program SLO	CHE 735	CHE 815	CHE 822	CHE 862		Research		
Solve advanced engineering problems using discipline appropriate math, science, computation, and analytical skills (All M.S. and Ph.D.)	X	X	X	X	X			
Critically synthesize and evaluate information (All M.S. and Ph.D)						X	X	
Demonstrate advanced knowledge in the area of specialization (All M.S. and Ph.D)	X	X	X	X	X	X		
Plan and conduct scholarly activities (M.S.)						X	X	
Plan and conduct scholarly activities that include original contributions to the ChE knowledge base (Ph.D)						X	X	X
Communicate effectively (written and oral) (All M.S. and Ph.D)						X	X	X
Comprehend the ethical, economic, environmental, and safety factors required for professional engineering practice (M.S.)		X	X			X	X	
University SLOs (Graduate Programs)								
Knowledge	X	X	X	X	X	X	X	X
Skills	X	X	X	X	X	X		
Attitudes and Professional Conduct						X	X	X