

Alignment Matrix – Relationships between Civil Engineering Curriculum and Student Learning Outcomes (SLO's)

	SLO/Required Courses/experiences	Selected CE Program SLO's					University SLO's				
		Understanding of mathematics, science and engineering principles (Expected Outcome 1.1)	Understanding of business, economics, project management, and other issues (Expected Outcome 2.3)	Ability to create and deliver quality oral presentations (Expected Outcome 3.4)	Understanding of professional and ethical responsibilities (Expected Outcome 4.1)	Lifelong learning & continuing education (Expected Outcome 4.2)	Disciplinary & broad "general education" knowledge	Critical thinking/problem-solving/information literacy	Written communication	Understanding & skills for diverse social world	Ethical standards of discipline
No.	Course Name										
	Civil Engg Electives	A	X	X			A	X	X	X	
	Humanities & Soc Sci Elect		A			X	A		X	X	
	Option Electives	X	X	X			X	X	X	X	
CE 015	Engineering Assembly				X	X	X		X	X	
CE 101	Intro to CE				X		X		X	X	
CE 212	Elem Surveying Engineering	X			X	X	X	X	X	X	
CE 333	Statics	X					X	X			
CE 411	Route Location	X		X			X	X	X		
CE 522	Soil Mechanics I	X					X	X			
CE 528	Foundations	A		X	X		A	A	X	X	
CE 530	Statics & Dynamics	X					X	X			
CE 533	Mechanics of Materials	X					X	X			
CE 534	Mechanics of Materials Lab	X					X	X			
CE 537	Intro to Structural Analysis	X					X	X			
CE 542	Structural Engg. (Steel)	A		X		X	A	A	X	X	
CE 544	Structural Engg. (Concrete)	A				X	A	A		X	
CE 550	Water Res. Engr.	A		X	X	X	X	X	X	X	
CE 552	Hydraulic Engg.	A				X	X	A		X	
CE 563	Envir Engg Fundamentals	X					X	X			
CE 565	Water/Wastewater	A		X			X	A	X		
CE 572	Highway Engg.	A		X			A	A	X		
CE 585	Civil Engineering Project	A	A	A	A	A	A	A	A	A	

X – Courses or experiences in which students have the opportunity to learn the outcome.

A – Courses or experiences in which student performance is used for program level assessment of the outcome.