

Objectives					CEM Outcomes
Compelling Education	Analysis, Synthesis, & Evaluation	Modern Professional Practice	Immediate Employment / Grad School	Contemporary Society	
X	X		X		A. Apply knowledge of mathematics, science, business principles and engineering to solve problems
X	X		X		B. Design and conduct experiments including analysis and interpreting data
	X	X	X		C. Design a system, component, or process to meet desired needs
		X	X	X	D. Function on multi-disciplinary teams
X	X		X		E. Identify, formulate, and solve engineering problems
		X	X	X	F. Understand professional and ethical responsibility
		X	X		G. Communicate effectively
		X	X	X	H. Understand impact of engineering solutions in global/societal context
			X		I. Recognize need for and able to engage in lifelong learning
		X	X	X	J. Knowledge of contemporary issues
X		X	X		K. Use techniques, skills and modern engineering tools necessary for practicing constructors
			X		L. Understand professional practice issues
	X		X	X	M. Include non-engineering considerations in problem solving
	X	X	X		N. Incorporate effective negotiation or consensus-gaining in group decision making
	X	X	X		O. Know and apply project planning, monitoring, and managing practices and tools
	X	X	X		P. Able to assess imperfect or incomplete data conditions, risk and alternatives, and make sound decisions
		X	X		Q. Know current industry design practices, construction methods and materials, and overall project delivery considerations