Table 4. Mapping of general education outcomes to the student learning outcomes and assessment methods of major courses in the B.S. in Civil Engineering Program.

General	Course	Appropriate Student Learning Outcomes	Assessment
Education Outcomes			Method
(CPP GE)			
1a. Write Effectively	CE 2001	1. Analyze audience for a given technical topic	Report
		and identify an effective communication mode	
	CE 1011L	3.Understand different methods of measuring surveying distance and its applications	Report
	CE 2030L	8. Produce final written project report summarizing material recommendations	Report
	EGR 4810 EGR 4820 EGR 4830	1. Identify a problem requiring a technological solution, describe the problem and its background objectively and technically.	Final Report
1c. Find, evaluate, use and share information effectively and ethically	CE 1001L	7. interpret appropriate design standards and guidelines applied to engineered infrastructure	Homework
	CE 2001	2. Analyze a written or oral presentation of a technical topic for effectiveness of its message.	Homework
	EGR 4810 EGR 4820 EGR 4830	2. Integrate knowledge and bring it to bear to solve a meaningful technologically challenging problem, consistent with the considerations and restraints dictated by human welfare and advancement.	Report
1d. Construct arguments based on sound evidence and reasoning to support an opinion or conclusion 4b. Demonstrate activities, techniques or behaviors that promote intellectual or cultural growth	CE 2061	7. Select an appropriate pump based upon system hydraulics analysis and interpretation of manufacturers' data.	Project
	EGR 4810 EGR 4820 EGR 4830	8. Analyze data and reason scientifically to formulate a conclusion.	Project
	CE 3401L	3. Prepare a complete geotechnical report including geologic background, site conditions, subsurface conditions and recommendation for design.5. Present your findings in a professional oral presentation.	Homework
	CE 3201L	3. Interpret fundamentals of sustainability and its implications in engineering career.5. Describe water crisis and available solutions.	Homework

CE 4321L	2. Interpret legal descriptions.	Homework
	3. Resolve conflicting elements in	
	legal descriptions.	
	6. Engineering and land surveying aspects of	
	subdivision projects.	
	11. An understanding of laws, regulations, and	
	codes relating to land development including the	
	California Environmental Quality Act, the	
	Subdivision Map Act, the Uniform Building	
	Code, local subdivision and grading codes, and	
	the Professional Engineer's and Land Surveyor's	
	Acts.	