Civil & Environmental Engineering Student Outcomes

1 Outcome 1 (ABET a): Apply scientific and fundamental engineering knowledge based upon a strong foundation in advanced mathematics, chemistry, physics, and the engineering sciences.

2 Outcome 2 (ABET b): Design and conduct hands-on experiments, use appropriate laboratory equipment to develop, analyze and interpret data.

3 Outcome 3 (ABET c): Design a component system or process in the civil engineering field that meets performance, quality, cost, time, safety, environmental and sustainable requirements.

4 Outcome 4 (ABET d): Function as a member of a multidisciplinary team and be able to assume leadership roles on the team.

5 Outcome 5 (ABET e): Determine into which technical area of civil engineering a project belongs and be able to analyze a project within at least four technical areas.

6 Outcome 6 (ABET f): Recognize and achieve a high level of professional and ethical conduct in all aspects of engineering work and can analyze a professional dilemma.

7 Outcome 7 (ABET g): Formulate and deliver effective written and verbal communications of laboratory, analytical and design project work to a variety of audiences.

8 Outcome 8 (ABET h): Understand and incorporate non-technical considerations into an engineering solution including safety, environmental, social, economic, and global issues.

9 Outcome 9 (ABET i): Recognize the need for civil engineers to engage in lifelong learning and begin the process by taking the FE examination.

10 Outcome 10 (ABET j): Be knowledgeable of contemporary issues in civil engineering.

11 Outcome 11 (ABET k): Utilize techniques, skills and modern engineering tools necessary for civil engineering practice.

12 Outcome 12 (local): With the knowledge that engineering changes society, civil engineers must understand that they are leaders.