

## **CEE Program Educational Objectives and Associated Student Outcomes**

### **1. Graduates should demonstrate the ability for early career professional growth based on their grasp of fundamental concepts in civil engineering.**

*Within the first few years after graduation, CEE graduates should be employed by an organization that serves the profession or enrolled in postgraduate studies. They should be participating in engineering practice based on their academic foundation.*

Objective 1 is associated with following Student Outcomes:

- Outcome 1 – Apply knowledge of math, science, engineering
- Outcome 2 - Comprehension of four Civil Engineering areas
- Outcome 4 - Identify, formulate, and solve engineering problems
- Outcome 7 - Conduct and design experiments and analyze data
- Outcome 8 - Techniques, skills, and modern engineering tools

### **2. Graduates should utilize knowledge and skills to participate in civil engineering design and/or management processes.**

*About five years beyond graduation, CEE graduates should be participating effectively in design processes and developing civil engineering solutions within a team setting. They are expected to be engaged in management and leadership roles for civil engineering projects and to assume positions of greater responsibility to the profession and public.*

Objective 2 is associated with following Student Outcomes:

- Outcome 2 - Comprehension of four Civil Engineering areas
- Outcome 5 - Effective Communication Skills
- Outcome 6 - Function on multi-disciplinary teams
- Outcome 9 - Professional and Ethical Responsibility
- Outcome 12 - Explain basic concepts in management, business, public policy, and leadership

### **3. Graduates should develop professionally through a commitment to life-long learning.**

*At all stages, CEE graduates should exhibit their potential for a sustained productive career through life-long learning. They should continue the professional registration process if necessitated by employment.*

Objective 3 is associated with following Student Outcomes:

- Outcome 3 - Explain professional registration process
- Outcome 10 - Life-Long Learning
- Outcome 11 - Awareness of the significance of applied research
- Outcome 12 - Explain basic concepts in management, business, public policy, and leadership