

Department of Civil & Environmental Engineering Mission Statement

The mission of the Department of Civil Engineering is to achieve excellence in education, research, and public and professional service. The Department will:

- Provide a forward-looking, learner-centered and intellectually stimulating civil engineering educational experience that inspires students to reach for the highest levels of intellectual attainment and growth throughout their lives;
- Provide a scholarly and professional environment and make significant contributions to the advancement of knowledge in civil engineering; and
- Engage in meaningful service activities that enhance the public's understanding and perception of civil engineering issues for the betterment of society and particularly in an urban environment.

The Department will pursue its mission within an environment that embraces integrity, respect, trust, openness, fairness, performance, and accountability.

Civil Engineering Program Mission Statement

The mission of the Civil Engineering Program is to prepare students for professional careers in civil engineering in the global society, and for life long learning and continuous development in the profession through a forward-looking and broad-based curriculum emphasizing basic engineering principles and fundamentals, practical applications, communication skills, critical thinking, teamwork, and professional practice issues and ethics.

Civil Engineering Program Educational Objectives

Graduates of JSU Civil Engineering Program are expected within a few years of graduation to have:

1. Established themselves as professionals actively engaging in problem solving to address the needs of society.
2. Progressed in their civil engineering careers or other chosen professions and/or engaged in advanced studies in civil engineering or other related fields.
3. Demonstrated their ability to act professionally and ethically in making decisions and to practice life-long learning and continuing education.

Civil Engineering Student Outcomes

Outcome A: an ability to apply knowledge of mathematics, science, and engineering

Outcome B: an ability to design and conduct civil engineering experiments, as well as to analyze and interpret data

Outcome C: an ability to design a civil engineering system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.

Outcome D: an ability to function on multi-disciplinary teams

Outcome E: an ability to identify, formulate, and solve civil engineering problems

Outcome F: an understanding of professional and ethical responsibility

Outcome G: an ability to communicate effectively

Outcome H: the broad education necessary to understand the impact of civil engineering solutions in a global, economic, environmental, and societal context

Outcome I: a recognition of the need for, and an ability to engage in life-long learning

Outcome J: a knowledge of contemporary issues

Outcome K: an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.