CE Program Outcomes

Student Outcomes for Objective A

Students in this program will develop the following abilities through their undergraduate education in this department:

A-1 to use the principles from chemistry, physics, statistics, and mathematics in engineering applications

A-2 to use computer-based tools for engineering applications

A-3 to identify, formulate, and solve engineering problems

Student Outcomes for Objective B

Students will develop the following abilities through their undergraduate education in this department:

B-1 to formulate design problem objectives, constraints, and synthesize problem information

B-2 to be creative and innovative in developing designs that achieve desired performance criteria within specified objectives and constraints

B-3 to communicate effectively through written, oral, and graphical presentations

Student Outcomes for Objective C

Students will develop the following abilities through their undergraduate education in this department:

C-1 to design and conduct experiments to analyze and interpret experimental data,

C-2 to use modern engineering tools, software, and laboratory instrumentation

C-3 to communicate effectively through written, oral, and graphical presentations

Student Outcomes for Objective D

Students will be introduced to the following issues through their undergraduate education in this department and will gain:

D-1 an ability to work in teams to solve multi-faceted problems

D-2 an ability to understand and contribute to the challenges of a rapidly changing society

D-3 an understanding of ethical and societal responsibilities of professional engineers

D-4 an understanding of the need for lifelong learning and continuing professional education

Student Outcomes for Objective E

Master of Science students, through their graduate education in this department, will:

E-1 use advanced mathematics and engineering sciences in research and development of civil engineering systems

E-2 receive a focused advanced engineering education in one of the areas related to civil engineering

Student Outcomes for Objective F

Students will develop the following abilities through their graduate education in this department:

F-1 to model and solve advanced engineering problems

F-2 to conduct research within a specific area of civil engineering

F-3 to communicate the result of research effectively through written, and oral, presentations