Mission Statement
The School of Electrical and Computer Engineering – serving the needs of students, faculty, and those who employ our graduates – provides a comprehensive education in electrical or computer engineering. By providing both a breadth of knowledge and depth with design experience in selected areas, graduates are prepared to continue the lifelong process of education needed by active professionals in today’s constantly changing global society.

Constituents: Who we Serve
The School of Electrical and Computer Engineering (ECEN) seeks to serve:
• Our students who are most directly affected by our program.
• Those in industry, government, or academia who will employ our students.
• The faculty who have large stakes in the long-term success of our program.

Program Objectives
In the years following graduation ECEN alumi…
1) Who choose to pursue a career in engineering will be widely employed across a range of disciplines and sub-disciplines in electrical engineering. Graduates will report the program provided the preparation needed to succeed in an engineering career.
2) Will be able to succeed in obtaining a professional or graduate degree should they choose to. At least one third of our graduates will earn or be pursuing an additional degree within five years following graduation.
3) Will report that in their careers they can function on multidisciplinary teams, communicate effectively, and understand the engineering design process.
4) Will follow ethical standards in their careers and engage in public and professional service activities.
5) Who choose to pursue careers that require understanding the impact of social, economic, or environmental factors on engineering will be successful in these careers.

Undergraduate Program Outcomes
1) ECEN graduates will:
   a) Be able to solve undergraduate-level problems in mathematics, science, and engineering that reflect the emphasis of these subjects in the curriculum.
   b) Be able to identify, formulate, and solve open-ended problems in electrical engineering in which they:
      • Propose and defend a valid solution to the problem.
      • Use hardware and software tools to perform experimentation relevant to the problem.
      • Acquire, analyze, and present data demonstrating they have achieved a functional solution.
   c) Be able to solve specialized problems in one sub-discipline of electrical engineering.
2) ECEN graduates will have the skills needed to continue to learn throughout their lifetime. Graduates will be able to:
   a) acquire and evaluate information independently,
   b) grasp the conceptual foundation of electrical engineering,
   c) assess their own level of knowledge, and
   d) reflect upon and learn from experience.
3) ECEN students will be able to design a device or system under given constraints as part of a team. The team will demonstrate well defined individual responsibilities, and be able to communicate the results both in writing and orally at a professional level.
4) ECEN graduates will demonstrate professional and ethical discernment, judgment, and behavior while they train to be an engineer.
5) ECEN graduates will address contemporary social, economic, and/or environmental issues in the design of complex devices or systems.