

## Institutional Mission

Lamar University is dedicated to student success by engaging and empowering students with the skills and knowledge to thrive in their personal lives and chosen fields of endeavor. As a doctoral granting institution, Lamar University is internationally recognized for its high quality academics, innovative curriculum, diverse student population, accessibility, student success, and leading-edge scholarly activities contributing to transforming the communities of Southeast Texas and beyond.

## Program Mission

The Department of Electrical Engineering supports the mission of the College of Engineering and Lamar University through teaching, research and service designed to provide the very best undergraduate electrical engineering education possible. It is our goal to provide our students with a strong theoretical foundation, practical engineering skills, experience in interpersonal communication and teamwork, and a daily emphasis on ethics, professional conduct and critical thinking. We prepare our graduates for successful engagement in their choice of commercial or industrial enterprise, research and development, or graduate study. We emphasize and support the training necessary for practice as professional engineers.

### 1 Program Goals

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#### 1.1 Student Learning Outcomes

An ability to identify, formulate, and solve engineering problems

The ELEN4-6 Senior Project Design I and ELEN4-7 Senior Project Design II courses were selected for the assessment of the outcomes of the undergraduate program since they are required capstone course sequences and incorporate elements that span the entire curriculum at an advanced level. The following three rubric dimensions are used to evaluate this outcome:

- Objectives and description identify problem aimed to be solved by project, - Design formulates problem by applying science, math and engineering, - Technical approach applies

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