

Bachelor of Science in Electrical Engineering[†]

Department of Electrical and Computer Engineering

Mapping of Program Outcomes to Program Educational Objectives

Program Outcomes							
H = High M = Medium L = Low	(a) Apply knowledge of mathematics, science, and engineering	(b) Design and conduct experiments, as well as analyze and interpret data	(c) Design a system, component, or process to meet desired needs within realistic constraints, e.g. economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability	(d) Function on multi-disciplinary teams	(e) Identify, formulate, and solve engineering problems	(f) Understand professional and ethical responsibility	(g) Communicate effectively
Program Educational Objectives							
To provide a first-rate education in the principles of analog and digital circuits, microelectronic devices and technologies, signals and systems, basic computer engineering (including programming), and electromagnetics and optics that incorporate open-ended design experiences and the use of hardware and software tools.	H	M	M	M	H	L	M

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Program Educational Objectives							
To prepare students for careers and/or graduate education in electrical engineering as it applies to the major technical areas of microelectronics, signals and systems, and electromagnetics and optics.	H	M	M	M	H	L	M
To develop skills for clear verbal and written communication and responsible teamwork, and to foster professional attitudes and awareness of the benefits of life-long learning.				M		H	H
To provide a learning environment that is based on open interaction with experienced faculty and staff and a curriculum that is dynamic, rigorous, and innovative.	M	M	M	L	H	M	M

Program Outcomes				
H = High M = Medium L = Low	(h) Broad education necessary to understand the impact of eng'g solutions in a global, economic, environmental, and societal context	(i) Recognition of the need for, and an ability to engage in, life-long learning	(j) Knowledge of contemporary issues	(k) Use the techniques, skills, and modern engineering tools necessary for engineering practice
Program Educational Objectives				
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