

Relationship of Student Outcomes to Program Educational Objectives

EE Program Educational Objectives	EE Student Outcomes
<p>I. Graduates from the EE Program will successfully integrate the fundamentals of electrical engineering and design/realization practices to develop innovative and practical solutions to complex technological problems;</p>	<p>Outcome a: an ability to apply knowledge of mathematics, science, and engineering.</p> <p>Outcome b: an ability to design and conduct experiments, as well as to analyze and interpret data.</p> <p>Outcome c: an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.</p> <p>Outcome e: an ability to identify, formulate, and solve engineering problems.</p> <p>Outcome k: an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.</p>
<p>II. Possess effective communication skills, excel in multidisciplinary and multi-cultural teams, and have an appreciation for non-technical disciplines;</p>	<p>Outcome d: an ability to function on multidisciplinary teams.</p> <p>Outcome g: an ability to communicate effectively.</p> <p>Outcome h: the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.</p> <p>Outcome j: knowledge of contemporary issues.</p>
<p>III. Be prepared to launch their careers or pursue graduate studies in electrical engineering or their chosen field; and engage in lifelong learning;</p>	<p>Outcome i: recognition of the need for, and an ability to engage in lifelong learning.</p> <p>Outcome k: an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.</p>
<p>IV. Be recognized in their chosen fields for their leadership, integrity, understanding and sensitivity to global societal issues.</p>	<p>Outcome f: an understanding of professional and ethical responsibility.</p> <p>Outcome h: the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.</p> <p>Outcome j: knowledge of contemporary technical issues.</p>