

## Bachelor of Science in Electrical Engineering<sup>†</sup>

Department of Electrical and Computer Engineering

### Mapping of Program Outcomes to ABET Criterion 3 (Outcomes a-k)

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
ABET Criterion 3 (outcomes a-k)							
(a) Apply knowledge of mathematics, science, and engineering	H						
(b) Design and conduct experiments, as well as analyze and interpret data		H					
(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			H				

[www.engineering.arizona.edu](http://www.engineering.arizona.edu)

<sup>†</sup> Accredited by the Engineering Accreditation Commission of ABET,  
 111 Market Place, Suite 1050, Baltimore, MD 21202-4012 - telephone: (410) 347-7700

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
ABET Criterion 3 (outcomes a-k)							
(d) Function on multi-disciplinary teams				H			
(e) Identify, formulate, and solve engineering problems					H		
(f) Understand professional and ethical responsibility						H	
(g) Communicate effectively							H
(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 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
ABET Criterion 3 (outcomes a-k)				
(h) Broad education necessary to understand the impact of eng'g solutions in a global, economic, environmental, and societal context	H			
(i) Recognition of the need for, and an ability to engage in, life-long learning		H		
(j) Knowledge of contemporary issues			H	
(k) Use the techniques, skills, and modern engineering tools necessary for engineering practice				H