

Mapping of ABET Program Outcomes to TAMU General Education Competencies

	TAMU General Education Competencies			
ABET Program Outcomes	1. Master the depth of knowledge required of a discipline	2. Demonstrate critical analytical skills	3. Communicate effectively in writing and speaking	4. Provide ethical leadership in a global and diverse society
(a) an ability to apply knowledge of mathematics, science, and engineering	X	X		
(b) an ability to design and conduct experiments, as well as to analyze and interpret data	X	X	X	
(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	X	X		X
(d) an ability to function on multidisciplinary teams			X	X
(e) an ability to identify, formulate, and solve engineering problems	X	X		
(f) an understanding of professional and ethical responsibility				X
(g) an ability to communicate effectively			X	X
(h) the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context				X
(i) a recognition of the need for, and an ability to engage in life-long learning	X	X		X
(j) a knowledge of contemporary issues		X		X
(k) an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.	X	X	X	