

Bachelor of Science in Engineering Management[†]

Department of Systems and Industrial Engineering

Mapping of Program Outcomes to ABET Criterion 3 (outcomes a-k) and ABET Criterion 9 (Program Criteria)

Program Outcomes							
	The graduate can apply knowledge of mathematics and science to solve problems.	The graduate can apply fundamental engineering science to technical problem solving.	The graduate understands the role of human relations in the management of operations.	The graduate can apply the tools of operation and project management.	The graduate can prepare financial analysis of projects, operations and firms.	The graduate has the ability to communicate verbally and in writing.	The graduate has in-depth knowledge of a technical field.
ABET Criterion 3							
(a) An ability to apply knowledge of mathematics, science, and engineering	X	X		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				X		X	X
(d) An ability to function on multi-disciplinary teams			X	X	X	X	
(e) An ability to identify, formulate, and solve engineering problems			X	X	X		
(f) An understanding of professional and ethical responsibility			X	X			
(g) An ability to communicate effectively			X	X		X	

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(h) The broad education necessary to understand the impact of engineering solutions in a global and societal context			X			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	X		X
(k) An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.	X	X		X			X
ABET Criterion 9							
(a) Understand the stochastic nature of management systems	X			X			
(b) Relate management tasks to the human element			X			X	
(c) Demonstrate the integration of management systems into differing technical environments				X	X		