

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

### Department of Agricultural and Biosystems Engineering

#### Mapping of Program Outcomes to Program Objectives

BE Program Outcomes		UA BE Educational Objectives Produce graduates who are:		
		Effective engineers within natural resources and biotechnology related industries, and	Who have the foundation to perform and lead engineering projects and make significant contributions	Enrolled in an advanced engineering or medical or other professional degree program and are successful in those
a	Can apply mathematics, science and engineering principles to solve problems	H	H	H
b	Can design and conduct experiments and analyze and interpret data	H	H	H
c	Can design a system, component or process to meet desired needs within realistic constraints	M	M	H
d	Can function on multidisciplinary teams	H	H	L
e	Can identify, formulate and solve engineering problems	H	H	H
f	Has an understanding of professional and ethical responsibility	H	H	M
g	Can communicate effectively	H	H	M
h	Has the broad education necessary to understand the impact of engineering solutions in global, economic, environmental and societal context	H	L	M
i	Recognize the need for and the ability to engage in lifelong learning.	H	H	H
j	Has a knowledge of relevant contemporary issues	H	H	L
k	Can use the techniques, skills, and modern engineering tools necessary for engineering practices.	H	H	M
H = High Contribution, M = Medium Contribution, L = Low Contribution, Blank = Little or no contribution				

<sup>†</sup>Accredited by the Engineering Accreditation Commission of ABET, <http://www.abet.org>.