

Bachelor of Science in Biosystems Engineering[†]

Department of Agricultural and Biosystems Engineering

Mapping of Program Outcomes to Program Specific Criteria

BE Program Outcomes		Program Specific Criteria			
		Demonstrate proficiency in mathematics through differential equations	Demonstrate proficiency in chemistry and biology	Demonstrate a working knowledge of advanced biological sciences	Demonstrate competence in application of engineering to biological systems
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	M	H
c	Can design a system, component or process to meet desired needs within realistic constraints				H
d	Can function on multidisciplinary teams		L		H
e	Can identify, formulate and solve engineering problems	M			M
f	Has an understanding of professional and ethical responsibility				M
g	Can communicate effectively		M		H
h	Has the broad education necessary to understand the impact of engineering solutions in global, economic, environmental and societal context			M	H
i	Recognize the need for and the ability to engage in lifelong learning.			L	L
j	Has a knowledge of relevant contemporary issues			L	
k	Can use the techniques, skills, and modern engineering tools necessary for engineering practices.				M
H = High Contribution, M = Medium Contribution, L = Low Contribution, Blank = Little or no contribution					