Bachelor of Science in Biosystems Engineering†

Department of Agricultural and Biosystems Engineering

Mapping of Courses and Activities to Program Outcomes

	Program Outcomes										
Curriculum and Educational Activities	Can apply mathematics, science and engineering principles to solve problems	Can design and conduct experiments and analyze and interpret data	Can design a system, component or process to meet desired needs within realistic constraints	Can function on multidisciplinary teams	Can identify, formulate and solve engineering problems	Has an understanding of professional and ethical responsibility	Can communicate effectively	Has the broad education necessary to understand the impact of engineering solutions in global, economic, environmental and societal context	Recognize the need for and the ability to engage in lifelong learning.	Has a knowledge of relevant contemporary issues	Can use the techniques, skills, and modern engineering tools necessary for engineering practices.
Program Outcomes	a	b	c	d	e	f	g	h	i	j	k
Engr 102	H			H				M	M	M	M
Math 125, 129, 223, 254	H										
Chem 103a,b; 104a,b (now Chem 151, 152)	H	H					M				L
Biolog Sci. (8 units)	H	H		M			M				L
Phys 141, 241	H	H		L			M				L
Engineering Science	H				H						
ENGL 101, 102, 308							H				
SIE 305	H	H	M	L							
ENGR 211P	H	M		M							
General Education							M	M	H		
ABE 205	H	H		L							M
ABE 284	H				H						
ABE 296a				H		H	H	H	H	H	
ABE 320 (now 221)	M	L	H	L	M		L			M	H
ABE 393								H	H	H	
ABE 423	H	H			H						H
ABE 447		H	H	M					L		H
ABE 484	H	H	H	M	H	L		L	L		H
ABE 496a						H	H	H		H	
ABE 498a	H		H	H	H		H				H
ABE 498b	H		H	H	H		H				H
Design Elect (9 units)	H	H	M	M	M	H	H	M	L	M	
Tech Elect (9 units)	H	H		M	M	M	M				

H = High Contribution, M = Medium Contribution, L = Low Contribution, Blank = Little or no contribution

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