## Undergraduate Curriculum in Biological Systems Engineering Bioenvironmental Engineering Option

2022-2023 Catalog Total Credits 127

	ngr 101	Semester 1 (16 cr.) Orientation (FS)		·	Samastar 2 (16 or )
	ngr 101	Orientation (FS)			Semester 2 (16 cr.)
			1	A B E 110	Experiencing BSE (S)
3 A	B E 170	Graphics and Design (FS)	3	A B E 160	Engineering Problems (S)
4 Cl	hem 167	General Chemistry (FS)	4	Math 166	Calculus II (FSSS)
1 Cl	hem 167L	General Chemistry Lab (FS)	4	Phys 231	Classical Physics I (FSSS)
4 M	1ath 165	Calculus I (FSSS)	1	Phys 231L	Classical Physics I Lab (FS)
3 Er	ngl 150	Crit. Think. and Comm. (FSSS)	3	Engl 250	Writ/Oral/Vis/Elec Composition (FSSS)
1 Lil	ib 160	Information Literacy (FSSS)		J	, , ,

	Second Year (31 cr.)					
	Semester 3 (16 cr.)			Semester 4 (15 cr.)		
3	A B E 216	Fund. Ag. and Biol. Engineering (F)	2	A B E 218	Project Mgmt/Design Ag & Bio Engr (S)	
3	C E 274	Statics of Engineering (FSSS)	1	A B E 201	Preparing for the Workplace (FS)	
3	Biol 212	Principles of Biology II (FSSS)	1	A B E 273	2D Auto CAD (FS)	
2	Chem 211	Quant. & Environ. Analysis (FS)	3	M E 231	Thermodynamics (FSSS)	
2	Chem 211L	Quant. & Environ. Analysis Lab (FS)	4	Math 267	Differential Equations (FSSS)	
3	$\rightarrow$	US Diversity Elective	3 1	Chem 231 Chem 231L	Elementary Organic Chemistry (FSSS) Elementary Organic Chemistry Lab (FSSS)	

Third Year (32 cr.)						
Semester 5 (16 cr.)				Semester 6 (16 cr.)		
3	A B E 316	Applications and Systems Modeling (FS)	4	A B E 363	Electric Power and Electronics (FS)	
3	A B E 378	Mechanics of Fluids (FS)	3	A B E 380	Principles of BSE (S)	
3	Micro 302	Biology of Microorganisms (FSSS)	3	C E 372	Engineering Hydrology and Hydraulics (FS)	
1	Micro 302L	Microbiology lab (FSSS)	3	E M 324	Mechanics of Materials (FSSS)	
3	STAT 305	Engineering Statistics (FSSS)	3	I E 305	Engineering Economic Analysis (FSSS)	
3	$\rightarrow$	Communication Elective.				

Fourth Year (32 cr.)						
	Semester 7 (17 cr.)			Semester 8 (15cr.)		
2	A B E 415	Ag & Biosystems Engr. Design I (FS)	2	A B E 416	Ag & Biosystems Engr. Design II (FS)	
3	A B E 404	Instrumentation for Ag and Bio Engr (F)	3	A B E 432	Nonpoint Source Pollution & Control (S)	
3	A B E 431	Des. & Eval. of Soil & Water Cons. (F)	3	C E 326	Principles of Environmental Engineering (FS)	
3	A B E 480	Engineering Analysis of Bio Systems (F)	1	E M 327	Mechanics of Materials Lab (FS)	
3	$\rightarrow$	International Perspectives Elective	3	$\rightarrow$	Bioenvironmental Elective	
3	$\rightarrow$	SS/H Elective	3	$\rightarrow$	SS/H Elective	

<sup>\*</sup>Please check the current catalog and Schedule of Classes for most recent offerings