	Required	Actual		Required	Actual
Required Major GPA	2		Total # of Units Required to Qualify for Advanced Standing	57	0
Required Advanced Standing GPA	2		Total # of Units Required in Advanced Standing	53	0
University: General Education	Units Required	Units Completed	Total # of Required Units for the Degree Program	128	0
Tier I and Tier II requirements (18 units)	18	0	Courses Required After Obtaining Advanced Standing in Biosystems Engineering (53 units)	Units Required	Units Complete
General Education Tier I	12		Mechanics of Fluids Requirement (3 units)	3	0
Tier I Individuals & Societies Complete 2 courses			Option I: Complete Introduction to Fluid Mechanics: AME 331 (3 Units) (& pre-req AME 250 )	3	
Tier I Traditions & Cultures Complete 2 Courses			Or Option II: Complete Mechanics of Fluids: CE 218 (3 units)		
*General Education Tier II	6		Advanced Standing: Lower Division Requirements (6 units)	6	0
Option 1: Tier II Arts, Complete 1 upper divison course			Option I: Engineering Graphics and Design with Auto Cad BE 220 (3 units) OR	3	
Diversity Emphasis Course, Complete 1 upper division course			Option II: Introduction to Computer Aided Design- BE 221 (3 units)		
Or Option 2: Complete 1 <b>upper division</b> Tier II Humanities course and complete 1 <b>upper</b> <b>division</b> Tier II Individual & Societies course.			Engineering Management I: SIE 265 (3 units)	3	
Courses Required to Qualify for Advanced Standing in Biosystems Engineering (57 units)	Units Required	Units Completed	Advanced Standing: Upper Division Requirements (17 units)	17	0
English Composition (12units)	6	0	Mechanics of Materials: AME 324A	3	
First Year Composition I: ENGL 101 OR 107 OR 109H (3 units)	3		Biosystems Analysis and Design: BE 423	3	
First Year Composition II: ENGL 102 OR 108 OR 109H (3 units)	3		Sensors and Controls: BE 447	3	
Biosystems Engineering Core Lower-division Courses (11 units)	14	0	Internship: BE 493 (complete 1 to 3 units)	1	
Introduction to Engineering ENGR 102 or ENGR 102A & 102B	3		Seminar in Engineering Careers and Professionalism: BE 496A	1	
Statics: CE 214	3		Engineering Probability & Statistics: SIE 305	3	
Intro to Biosystems Engineering: BE 201	2		Technical Writing Options: AGTM 422 OR ENVS 408 OR ENGL 308	3	
Engineering Analytic Computer Skills: BE 205	3		Engineering Capstone Design Courses (6 units)	6	0
Biosystems Thermal Engineering: BE 284	3		ENGR 498A	3	
Math Core	13	0	ENGR 498B	3	
Calculus I: MATH 122A (2 Units) / and MATH 122B (3 units) OR MATH 125 (3 units)	3		Biosystems Engineering Electives (21 units)	Units Required	Units Complete
Calculus II: MATH 129	3		BE Engineering Design Electives -Complete Three Courses (9 units)	9	0
Vector Calculus: MATH 223	4		Design 1	3	
Intro to Differential Equations: MATH 254	3		Design 2	3	
Science Core	24	0	Design 3	3	
General Chemistry I: CHEM 151 OR CHEM 105A/106A	4		Technical Electives - Complete (12 units minimum)	12	0
General Chemistry II: CHEM 152 OR CHEM 105B/106B	4		CHEM 241 A and CHEM 243 A (Tech 1)	4	
Introductory Mechanics: PHYS 141 or PHYS 161H	4		CHEM 241 B and CHEM 243B (Tech 2)	4	
Intro to Electricity & Magnetism: PHYS 241 or PHYS 261H	4		*Tech 3	3	
Intro to Biology MCB 181R/L OR PLS 240	4	ļ	*Tech 4 (BE 492 ) or 3 unit Tech course under focus research area	1	
ECOL 182R/L OR MIC 205A/L OR PSIO 201	4		*Students who complete CHEM 241A/CHEM243B and/or CHEM241B/CHEM 243B, must review their SAAR and Advisor prior to enrollment in the Advanced Standing Technical Elective courses.	POS with the Depart	ment Academi