B.S. IN BIOSYSTEMS ENGINEERING

CATALOG YEAR 2017-2018

Below is the *advised sequence* of courses for this degree program and prerequisites as of 3/07/17. The official degree requirements and prerequisites can be found in the University General Catalog and the prerequisites are subject to change.

COURSE NUMBER AND TITLE	UNITS	PREREQUISITES	
1 ST SEMESTER			
MATH 122A/B or MATH 125 Calculus I with Applications	5/3	Appropriate Math Placement	
CHEM 151 General Chemistry I or CHEM 105A/106A	4	Appropriate Math Placement	
ENGL 101 or 107 or 109H First-Year Composition	3		
ENGR 102A/B Introduction to Engineering or ENGR 102	3	Concurrent enrollment or completion of MATH 122B or 125	
Tier I General Education	3		
2 ND SEMESTER			
MATH 129 Calculus II	3	MATH 122A/B or 125 with C or better	
CHEM 152 General Chemistry II or CHEM 105B/106B	4	CHEM 151 or 105A/106A	
PHYS 141 Introductory Mechanic or PHYS 161H	4	MATH 122B or 125; Concurrent enrollment or completion of MATH 129	
ENGL 102 or 108 or 109H First-Year Composition	3	ENGL 101 or ENGL 107	
Tier I General Education	3		
3 RD SEMESTER			
CE 214 Statics	3	PHYS 141 or 161H; MATH 129	
ABE 284 Biosystems Thermal Engineering	3	MATH 129; PHYS 141	
ABE 201 Introduction to Biosystems Engineering	2	MATH 122B or 125	
MATH 223 Vector Calculus	4	MATH 129 with C or better	
MCB 181R/L Introductory Biology I OR PLS 240 Plant Bio	4	Appropriate Math Placement	
4TH SEMESTER			
ABE 205 Engineering Analytic Computer Skills	3	College of Engineering Major	
MATH 254 Intro to Ordinary Differential Equations	3	MATH 129 or 223 with C or better	
PHYS 241 Introductory Electricity and Magnetism or PHYS 261H	4	PHYS 141, MATH 129	
ECOL 182R/L Introductory Biology II or MIC 205 A/L General Microbiology or PSIO 201 Human Anatomy and Physiology	4	ECOL182R/L & MIC 205: Appropriate Math Placement	
Tier 1 General Education	3		

COL	DCF A	JUMB	FD AI	
	K 5 F N	u u m e	FR AI	

UNITS

CURRENT PREREQUISITES FOR UPPER DIVISION COURSES CAN BE FOUND IN THE UA GENERAL CATALOG

ADVANCED STANDING IS REQUIRED FOR 3XX AND 4XX COURSES (SEE ADVISOR FOR REQUIREMENTS)				
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Tier I and II General Education Courses must meet University general education requirements. One course must be recognized by the university as meeting the Diversity Requirement.