

Biosystems Engineering Department B.S. in Biosystems Analytics & Technology

Course	Units	Prerequisites
1st Semester -- Fall, Freshman Year	14	
First-Year Composition 1	3	See English Dept.
Introductory Biology I	4	Math 120R or higher
Second Language - First Semester	4	
Introductory course (BAT 102, NEW course, Fall only)	3	pending
2nd Semester -- Spring, Freshman Year	17	
First-Year Composition 2	3	
Introductory Biology II	4	
Second Language - Second Semester Proficiency	4	
First Semester Calculus I (MATH 122A/B or MATH 125)	3	See Math Dept.
Basic Computer Skills for Office Applications (BE/BAT 120)	3	
3rd Semester -- Fall, Sophomore Year	15	
General Chemistry I (3 unit Lec + 1 unit Lab)	4	may need Cal 1
Data Science (ESOC 214 or ISTA 131)	3	
<i>An introductory computer/programming class-Approved by BAT Advisor</i>	3	
Introduction to Biosystems Engineering (BAT/BE 201, Fall only)	2	
Introduction to Biosystems Analytics (BAT/BE 310, Fall only)	3	
4th Semester -- Spring, Sophomore Year	16	
General Chemistry II (3 unit Lec + 1 unit Lab)	4	
Statistics (MATH 263 or BIOS 376 or AREC 239)	3	Cal I
Tier I General Education-INDV	3	
Engineering Analysis & Problem Solving (BAT/BE 205, Spring only)	3	
Intro to Sensors & Controls (BAT 247, NEW course, Spring only)	3	
5th Semester -- Fall, Junior Year	16	
Introductory Physics I (3 unit Lec + 1 unit Lab)	4	
Technical Writing	3	
Tier I General Education-TRAD	3	
Applied Biostatistics (BE/BAT, 413 Fall only)	3	
Biosystems Analytics (BAT/BE 434, Fall only)	3	
6th Semester -- Spring, Junior Year	14	
Additional Science Course, 200-level or above	3	
Tier I General Education-TRAD	3	
Tier I General Education-INDV	3	
Elective	3	
Internship (BAT/BE 493)	2	
7th Semester -- Fall, Senior Year	13	
Tier II General Education-Individuals and Societies	3	
Tier II General Education-Arts	3	
Elective	3	
Elective	3	
Careers and Professionalism (BAT/BE 496A, Fall only)	1	
8th Semester -- Spring, Senior Year	15	
Elective	3	
Elective	3	
Elective	3	
Remote Sensing Data and Methods (BAT/BE 485, Spring only)	3	
Senior Capstone (BAT 498, Spring only)	3	