

## Biosystems Engineering Department

### B.S. in Biosystems Analytics & Technology

Course	Units	Prerequisites
<b>1st Semester -- Fall, Freshman Year</b>	14	
First-Year Composition 1	3	See English Dept.
Introductory Biology I	4	Math 120R or higher
Second Language - First Semester	4	
<b>Introductory course (BAT 102, NEW course, Fall only)</b>	3	
<b>2nd Semester -- Spring, Freshman Year</b>	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.
<b>Basic Computer Skills for Office Applications (BE/BAT 120)</b>	3	
<b>3rd Semester -- Fall, Sophomore Year</b>	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?</i>	3	
<b>Introduction to Biosystems Engineering (BAT/BE 201, Fall only)</b>	2	
<b>Introduction to Biosystems Analytics (BAT/BE 310, Spring only)</b>	3	
<b>4th Semester -- Spring, Sophomore Year</b>	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	
<b>Engineering Analysis &amp; Problem Solving (BAT/BE 205, Spring only)</b>	3	
<b>Intro to Sensors &amp; Controls (BAT 247, NEW course, Spring only)</b>	3	
<b>5th Semester -- Fall, Junior Year</b>	16	
Introductory Physics I (3 unit Lec + 1 unit Lab)	4	
Technical Writing	3	
Tier I General Education-TRAD	3	
<b>Applied Biostatistics (BE/BAT, 413 Fall only)</b>	3	
<b>Biosystems Analytics (BAT/BE 434, Spring only)</b>	3	
<b>6th Semester -- Spring, Junior Year</b>	14	
Additional Science Course, 200-level or above	3	
Tier I General Education-TRAD	3	
Tier I General Education-INDV	3	
Elective	3	
<b>Internship (BAT/BE 493)</b>	2	
<b>7th Semester -- Fall, Senior Year</b>	13	
Tier II General Education-Individuals and Societies	3	
Tier II General Education-Arts	3	
Elective	3	
Elective	3	
<b>Careers and Professionalism (BAT/BE 496A, Fall only)</b>	1	
<b>8th Semester -- Spring, Senior Year</b>	15	
Elective	3	
Elective	3	
Elective	3	
<b>Remote Sensing Data and Methods (BAT/BE 485, Spring only)</b>	3	
<b>Senior Capstone (BAT 498, NEW course, Spring only)</b>	3	