

# Biochemistry Program

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The Biochemistry Program is housed within the Department of Applied Science and Technology. The Department offers a major in Biochemistry in collaboration with the Biology and Chemistry Departments.

## Requirements for Biochemistry Major

### Degree of Bachelor of Science

Twelve of the required credits for the major count towards the Core Curriculum Requirements.

BI-183	General Biology I <sup>1</sup>	3
BI-185	General Biology I Lab	1
BI-184	General Biology II <sup>1</sup>	3
BI-186	General Biology II Lab	1
BI-240	Cell and Molecular Biology	4
BI-240L	Cell & Molecular Bio Lab	0
BC/CH-421		2
For Capstone, choose from one of the following		3
BC-390	Spec Topics: Biological Chem (Capstone)	
CH-499	Research in Chemistry	
HP-492	Honors Thesis: Independent Study	
CH-131	General Chem and Qualitative Analysis 1	3
CH-131L	Gen Chem and Qualitative Analysis 1 Lab	1
CH-132	General Chem and Qualitative Analysis 2	3
CH-132L	Gen Chem and Qualitative Analysis 2 Lab	1
CH-251	Organic Chemistry I	3
CH-251L	Organic Chemistry I Lab	1
CH-252	Organic Chemistry II	3
CH-252L	Organic Chemistry II Lab	1
CH-365	Physical Chemistry I	3
CH-365L	Physical Chemistry I Lab	1
CH-366	Physical Chemistry II	3
CH-366L	Physical Chemistry II Lab	1
BC/CH-442	Biochemistry I	3.00
BC/CH-442L	Biochemistry 1 Lab	1.00
BC/CH-443	Biochemistry II	3.00
BC/CH-443L	Biochemistry II Lab	1.00
MA-143	Differential Calculus <sup>2</sup>	4
MA-144	Integral Calculus <sup>2</sup>	4
MA-273	Multivariable Calculus I	4
PC-185	General Physics I	3
PC-187	General Physics Laboratory I	1
PC-186	General Physics II	3
PC-188	General Physics Laboratory II	1
<b>Total Credits</b>		<b>69</b>

<sup>1</sup> May count towards the Core Natural Science Requirement.

2 Biochemistry Program

2 May count towards the Core Mathematics Requirement.

### **Special Notes on Major Requirements**

<sup>1</sup> Students are strongly encouraged to take BI-350 Genetics and BI-350L Genetics Lab.

<sup>2</sup> Students in Capstone must make a formal oral and written presentation of their research.