

BS in Biochemistry

Bachelor of Science Degree in Biochemistry

College and University Requirements

<u>ENGL 001</u>	Composition and Literature	3
<u>ENGL 002</u>	Composition and Literature II	3
First Year Seminar		3
Non-science Electives ¹		16

Collateral Science Requirements

Select one of the following options: 9-10

Option A

PHY 010 & PHY 012 General Physics I and Introductory Physics Laboratory I

PHY 013 & PHY 022 General Physics II and Introductory Physics Laboratory II

Option B

PHY 011 & PHY 012 I Introductory Physics I and Introductory Physics Laboratory I

PHY 021 & PHY 022 II Introductory Physics II and Introductory Physics Laboratory II

Select one of the following options: ² 10-12

Option A

MATH 051 Survey of Calculus I

MATH 052 Survey of Calculus II

MATH 043 Survey of Linear Algebra

Option B

MATH 021 Calculus I

MATH 022 Calculus II

MATH 023 Calculus III

One statistics course ² 3

CSE 012 Survey of Computer Science 3

or ENGR 010 Applied Engineering Computer Methods

Required Chemistry Courses

<u>CHM 040</u>	Concepts, Models and Experiments I ³	4
<u>CHM 041</u>	Concepts, Models and Experiments II ³	4
<u>CHM 110</u> & <u>CHM 111</u>	Organic Chemistry I and Organic Chemistry Laboratory I	4
<u>CHM 112</u> & <u>CHM 113</u>	Organic Chemistry II and Organic Chemistry Laboratory II	4
<u>CHM 307</u>	Advanced Inorganic Chemistry	3
<u>CHM 194</u>	Physical Chemistry for Biological Sciences	3
<u>CHM 332</u>	Analytical Chemistry	3

Required Biological Science courses

<u>BIOS 041</u> & <u>BIOS 042</u>	Biology Core I: Cellular and Molecular and Lab	4
<u>BIOS 115</u>	Biology Core II: Genetics	3
<u>BIOS 371</u>	Elements of Biochemistry I	3
<u>BIOS 372</u> & <u>BIOS 377</u>	Elements of Biochemistry II and Biochemistry Laboratory	6
	Advanced Laboratory	4
	Electives in Biological Sciences (3 hours minimum) ⁴	3
	Technical Writing (2 hours minimum)	2
	Total Credits	100-103

¹ 16 hours to be broadly distributed in fields of thought other than natural science and mathematics, including at least 8 hours each in humanities and social sciences.

² Mathematics option and statistics course must be at least 12 hours combined.

³ The CHM 030 / CHM 031 sequence may be substituted.

⁴ The three credit hours of biological sciences electives are chosen with the approval of the adviser.