

# City Colleges of Chicago

## Transfer Guide

### BS in Chemistry: Biochemistry Option

Chicago State University has a longstanding mission to provide a diverse group of students with access to quality higher education. This access prepares students to meet their educational goals and make meaningful contributions to their communities. Chicago State University's current mission documents reaffirm this distinctive goal, underscoring the institution's dedication to social justice and leadership, and declaring a new focus on community development through entrepreneurship.

## Program Overview

The Department of Chemistry, Physics, and Engineering Studies offers a Bachelor of Science degree in Chemistry. The general goal of the chemistry program is to prepare students for scientific careers in industry, government, and education, as well as for advanced study in chemistry or related fields such as biochemistry, medicine, forensic science, dentistry, patent law, or pharmacy. The chemistry program aids students in developing the following:

- A broad foundation in the theory, principles, and history of chemistry
- Skills in analytical reasoning and problem solving
- Necessary laboratory, safety, and literature skills
- Effective oral and written communication skills, including notebook keeping, graphing, writing laboratory reports, using computers for data analysis, and conducting research presentations
- An understanding of the impact of chemistry on industry, society, and the environment, and an appreciation of the role of the chemist



# Articulation Crosswalk for BS in Chemistry: Biochemistry Option

**Chicago City Colleges  
Associate in Science (0211) AS**

**Chicago State University  
BS in Chemistry: Biochemistry Option  
(CHMB)**

<b>Course #</b>	<b>Title</b>	<b>Credit Hours</b>	<b>Course #</b>	<b>Title</b>	<b>Credit Hours</b>
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<b>Courses required at CSU for BS in Chemistry: Biochemistry Option (CHMB)</b>	
<b>CSU Courses</b>	<b>Credit Hours</b>
<b>Chemistry Courses:</b>	
CHEM 2400/2410 Organic Chemistry I Lecture and Lab	4
CHEM 2450/2460 Organic Chemistry II Lecture and Lab	4
CHEM 2600 Introduction to Chemical Laboratory Practices	1
CHEM 3240 Inorganic Chemistry	3
CHEM 3600 Scientific Communications	2
CHEM 4200 Microphysical Chemistry Lecture	3
CHEM 4210 Microphysical Chemistry Lab	1
CHEM 4250 Macrophysical Physical Chemistry Lecture	3
CHEM 4303 Biochemistry I Lecture	3
CHEM 4304 Biochemistry I Lab	1
CHEM 4313 Biochemistry II	3
CHEM 4355 Senior Thesis	3
CHEM 4365 Analytical Chemistry II Lecture and Lab	4
CHEM 4600 /4610 Analytic Chemistry: Lecture and Lab	4
<b>Supportive Biological Science Course:</b>	
PSLY 2040 Human Physiology	4
<b>Supportive Physics Courses:</b>	
PHYS 2110 General Physics I with Calculus: Mechanics	4
PHYS 2220 General Physics II with Calculus: Electromagnetism and Optics	4
<b>Supportive Math Course:</b>	
MATH 1420 Calculus II	4
<b>Elective Courses in Biology or Chemistry:</b>	5
<b>CSU Completion Credit Hours</b>	<b>60</b>

<b>CCC Transferred Credit Hours</b>	<b>61</b>
<b>CSU Completion Credit Hours</b>	<b>60</b>
<b>Total Degree Credit Hours</b>	<b>121</b>