CHICAGO STATE UNIVERSITY

City Colleges of Chicago

Transfer Guide

BS in Chemistry:
Teaching Option (CHMT)

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 a related discipline, 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 roles and responsibilities of chemists in today's world

Completion of the Secondary Teaching Option in Chemistry qualifies students for an Illinois Professional Educator License (PEL) with an endorsement for teaching Science-Chemistry for grades 9-12. The Secondary Teaching Program is accredited by the National Science Teachers Association (NSTA) and meets Illinois State Board of Education (ISBE) standards in science education.

Highlights

- High quality teaching, a family environment, faculty engagement, and support from peer mentoring programs.
- Engagement in hands-on, minds-on, STEM Research.
- Opportunities to attend, present, and communicate science at local and national conferences – CSU students have given presentations all over the world – from Chicago to Switzerland!
- Local, national, and global internship opportunities.

Advisor Contact Information

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Articulation Crosswalk for BS in Chemistry: Teaching (CHMT)

Chicago City Colleges Associate in Arts (0210) AA			Chicago State University BS in Chemistry: Secondary Teaching Option (CHMT)		
Course #	**Title**	**Credit Hours**	**Course #**	**Title**	**Credit Hours**
ENG 101	Composition I	3	ENG 1270	Composition I	3
ENG 102	Composition II	3	ENG 1280	Composition II	3
SPEECH 101	Fundamentals of Speech Communication	3	CMAT 2030	Basic Speech Communications	3
Fine Arts	IAI Fine Arts*	3	Fine Arts	IAI Fine Arts	3
Humanities	IAI Humanities*	3	Humanities	IAI Humanities	3
Fine Arts/ Humanities	IAI Fine Arts or Humanities*	3	Fine Arts/ Humanities	IAI Fine Arts or Humanities	3
Social/Behavioral Sciences	IAI Social/Behavioral Sciences (not Psychology)	3	Social/ Behavioral Sciences	IAI Social/Behavioral Sciences	
PSYCH 201	General Psychology**	3	PSYC 1100	Introduction to Psychology	3
PSYCH 207	Child Psychology**	3	PSYC 2040	Child and Adolescent Psychology	3
Recommended Mathematics Courses:					
MATH 140	College Algebra	4***	MATH 1200	College Algebra	3 (4)
MATH 141	Plane Trigonometry	3	MATH 1210	Trigonometry	3
Recommended Program Core:					
BIOL 121	Biology I	5***	BIOL 1710	Introduction to Biology	4 (5)
CHEM 201	General Chemistry I	5***	CHEM 1400/1410	General Chemistry I Lecture and Lab	4 (5)
CHEM 203	General Chemistry II	5***	CHEM 1450/1460	General Chemistry II Lecture and Lab	4 (5)
MATH 207	Calculus & Analytic Geometry I	5***	MATH 1420	Calculus II	4 (5)
PHYSICS 235	Engineering Physics I: Mechanics & Wave Motion I	5***	PHYS 2110	Physics I with Calculus	4 (5)
Elective	Foreign Language	3	FL	CSU CAS Requirement	3
Total Credit Hours Taken at CCC		**62**	**Total Credit Hours Transferred to CSU**		**62**

*One course must satisfy the CCC Human Diversity (HD) requirement.

**Recommended courses for Secondary Teaching Option
***Math courses and science lab courses that equal 4 or 5 credit hours at City Colleges transfer as such to CSU.

Courses required at CSU for BS in Chemistry: Secondary Teaching Option (CHMT)	
CSU Courses	**Credit Hours**
Chemistry Courses:	
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 2800/2810 Analytic Chemistry Lecture and Lab	4
CHEM 4200 Microphysical Chemistry Lecture	3
CHEM 4210 Microphysical Chemistry Lab	1
CHEM 4250 Macrophysical Chemistry Lecture	3
CHEM 4270 Advanced Laboratory	1
CHEM 4303 Biochemistry I Lecture	3
CHEM 4304 Biochemistry I Lab	1
CHEM 4710 Readings in Science Education	1
Supportive Math Course:	
MATH 1420 Calculus II	4
Supportive Physics Course:	
PHYS 2220 Physics II with Calculus	4
Professional Education Courses: 15	
ED 2000 History and Philosophy of American Public Education	3
BIL 4005 Bilingual Education	3
S ED 4301 Characteristics of Exceptional Children	3
S ED 4303 Teaching Students with Exceptional Needs	2
PH S 1140 or 1150 Practical Earth and Space Science or Basic Astronomy	3
PSYCH 2020 Educational Psychology	3
CHEM 2640 Chemistry Internship	3
CHEM 4630 Methods of Teaching Chemistry and Physical Science in Secondary Schools	3
CHEM 4750 Student Teaching: Secondary Level Chemistry	6
READ 4100 Content Reading for Middle and Secondary School Teachers	2
CSU Completion Credit Hours	**65**

CCC Transferred Credit Hours	**62**
CSU Completion Credit Hours	**65**
Total Degree Credit Hours	**127**