## Effective Fall 2019

## CENTRAL CONNECTICUT STATE UNIVERSITY

School of Education and Professional Studies B.S.ED. (Grades 7 - 12) 120 Credits

## CHEMISTRY

Name:	ID#:		]	Matriculation Semester: Date:		
GENERAL	EDUCATION (44-46 credits)	Crs.	Grd.	CHEMISTRY MAJOR (31-32 credits)	Crs.	Grd.
Some General Education courses can also fulfill Related Requirements				Grade of C- or better required		
	STUDY AREAS			CHEM 161 General Chemistry	3	
Study Area l	Arts & Humanities (9 credits)			CHEM 162 General Chemistry Lab	1	
ENG literature		3		CHEM 200 Foundations of Analytical Chemistry	3	$\square$
		3		CHEM 201 Foundations of Analytical Chemistry Lab	1	
		3		CHEM 210 Organic Chemistry I - Foundations	3	
Study Area II Social Sciences (9 credits)				CHEM 211 Organic Chemistry I Lab - Foundations	1	
HIST		3		CHEM 212 Organic Chemistry II - Synthesis	3	
		3		CHEM 213 Organic Chemistry II Lab - Synthesis	1	
		3		CHEM 238 Introduction to Research	1	
Study Area III	Behavioral Sciences (6 credits)			CHEM 260 Foundations of Inorganic Chemistry	3	
		3		CHEM 316 Spectroscopic Indentification of Organic Compounds	3	
		3		CHEM 332 Chemical Literature	1	
Study Area IV	Natural Sciences (6 or 7 credits)			CHEM 432 Chemistry Seminar	1	
Course can be double-c	ounted in major	Х	Х	One of the following:	3	
Course can be double-c	ounted in major	Х	Х	CHEM 320 Biophysical Chemistry	<b></b>	
				CHEM 321 Physical Chem. of Thermodynamics & Kinetics		
	SKILL AREAS			CHEM 322 Physical Chem. of Quantum & Statistical Mechan	ics	
Skill Area I	Communication Skills (6 credits)			One of the following:	3 or 4	ŧ
WRT 105 & 105P or W	/RT 110 Freshman Composition	3		CHEM 354 Biochemistry (3)		-
	Å	3		CHEM 402 Instrumental Analysis (4)		
Skill Area II M	Iathematics Requirement (6 credits)			CHEM 406 Environmental Chemistry (3)		
		3		CHEM 485 Topics in Chemistry (3)		
		3		RELATED REQUIREMENTS (31 credits)		
Skill Area III Foreig	n Language Proficiency Requirement (cho	eck one)	· · · · · · · · · · · · · · · · · · ·	Grade of C- or better required		
- completion of a level-three hi		<u> </u>	Ī	SCIENCE RELATED REQUIREMENTS (18 credits)		
- passed a standardized foreign				BIO 121 General Biology I or BMS 102 and 103	4	Τ
- completion of 112 or 114 for				GSCI 121 The Dynamic Earth	3	
-	ipper level foreign language course			PHYS 121 or PHYS 125 Physics I	4	
-	ciency in a language other than English			PHYS 122 or PHYS 126 Physics II	4	
	niversity Requirement (2 or 3 credits)		Į	SCI 320 The Nature of Science and Technology	3	+
	matriculating with fewer than 15 credits	2 or 3		ADDITIONAL REQUIREMENTS (13 credits)		
TE TTTTequieu for students	maticulating with level than 15 creaks	2 01 5		Required for the Program & can also fulfill General Education		
ELECTIVES (if necessary to reach 120 credits)			HIST 161 or HIST 162 (ST II)	3	T	
ELECTIVES	(in necessary to reach 120 creatis)				3	
				PSY 136 Lifespan Development (ST III) EDF 215 Education in a Multicultural Society (ST III)		┼──
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				MATH 152 Calculus I (SK II)	4	<u> </u>
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International Requireme				PROFESSIONAL EDUCATION (27 credits)		
International Requireme				All courses require admission to the Professional Program		
First Year Experience R	Requirement	1		and a grade of C or better		

SPED 315 Intro. to Educating Learners with Exceptionalities	3	
EDTE 316 Principles of Learning in Diverse Settings (7-12)	4	
LLA 440 Literacy in the Secondary School	3	
EDSC 425 Multicultural, Interdisciplinary Teaching (7-12)	3	
SCI 417 Teaching of Science in the Secondary School	4	
SCI 419 Student Teaching Seminar	1	
EDSC 435 Secondary Education Student Teaching	9	