Effective Fall 2020

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 EDUCA	ATION (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				
STUD	DY AREAS			CHEM 161 General Chemistry	3		
	& Humanities (9 credits)			CHEM 162 General Chemistry Lab	1	<u> </u>	
ENG literature		3		CHEM 200 Foundations of Analytical Chemistry	3	<u> </u>	
		3		CHEM 201 Foundations of Analytical Chemistry Lab	1	<u> </u>	
		3		CHEM 210 Organic Chemistry I - Foundations	3	<u> </u>	
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 Natu	ral Sciences (6 or 7 credits)			CHEM 432 Chemistry Seminar	1		
Course can be double-counted i	n major	Х	Х	One of the following:	3		
Course can be double-counted i	n major	Х	Х	CHEM 320 Biophysical Chemistry			
				CHEM 321 Physical Chem. of Thermodynamics & Kinetics			
<u>SKIL</u>	<u>L AREAS</u>			CHEM 322 Physical Chem. of Quantum & Statistical Mechan	Statistical Mechanics		
Skill Area I Communication Skills (6 credits)				One of the following:	3 or 4		
WRT 105 & 105P or WRT 110	Freshman Composition	3		CHEM 354 Biochemistry (3)			
		3		CHEM 402 Instrumental Analysis (4)			
Skill Area II Mathematics Requirement (6 credits)				CHEM 406 Environmental Chemistry (3)			
		3		CHEM 485 Topics in Chemistry (3)			
		3		RELATED REQUIREMENTS (31 credits)			
Skill Area III Foreign Langu	age Proficiency Requirement (ch	eck one))	Grade of C- or better required			
- completion of a level-three high school f	foreign language]	SCIENCE RELATED REQUIREMENTS (18 credits)			
- passed a standardized foreign language of	exam		1	BIO 121 General Biology I or BMS 102 and 103	4		
- completion of 112 or 114 foreign langua	age course		1	GSCI 121 The Dynamic Earth	3		
- successful completion of an upper level	foreign language course		1	PHYS 121 or PHYS 125 Physics I	4		
- demonstration of native proficiency in a	language other than English		1	PHYS 122 or PHYS 126 Physics II	4		
Skill Area IV University	y Requirement (2 or 3 credits)		•	SCI 320 The Nature of Science and Technology	3		
PE 144 required for students matriculati	ing with fewer than 15 credits	2 or 3		ADDITIONAL REQUIREMENTS (13 credits)			
				Required for the Program & can also fulfill General Education			
ELECTIVES (if necessary to reach 120 credits)				HIST 161 or HIST 162 (ST II)	3	Γ	
				PSY 136 Lifespan Development (ST III)	3		
		1		EDF 215 Education in a Multicultural Society (ST III)	3		
				MATH 152 Calculus I (SK II)	4		
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International Requirement			1	PROFESSIONAL EDUCATION (27 credits)			
International Requirement			1	All courses require admission to the Professional Program			
First Year Experience 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	