

Department of Chemistry
Bachelor of Science in Chemistry (Secondary Education)
Curriculum Guide 2020-21

Notes	Course	CR	Notes	Course	CR
	Freshman Year: First Semester			Freshman Year: Second Semester	
	CHEM 106: General Chemistry VI	3		CHEM 107: General Chemistry VII	3
	CHEM 108: Chemistry Orientation	1		<i>CHEM 190: Introduction to Chemical Research / CHEM 117: General Chemistry VII Laboratory</i>	1
	CHEM 116: General Chemistry VI Laboratory	1		BIOL 101: Concepts in Biology	4
	ENGL 100: Ideas and Their Expressions I	3		<i>ENGL 101: Ideas and Their Expression II</i>	3
	EDPR 102 Intro to Teacher Ed	2		African American Studies ²	3
	MATH 131 ¹ - Calculus	4		EDPR 110 <i>Ethics of Teaching</i>	2
	Semester Total	14		Semester Total	16
	Sophomore Year: First Semester			Sophomore Year: Second Semester	
	CHEM 221: Organic Chemistry I	3		CHEM 222: Organic Chemistry II	3
	<i>CHEM 290: Res Meth in Organic Chem I/ CHEM 223: Organic Chemistry I Lab</i>	1		CHEM 231: Quantitative Analysis I	3
	<i>MATH 132: Calculus II</i>	4		CHEM 231: Quantitative Analysis I-Lab	2
	<i>PHYS 241: General Physics I</i>	3		<i>Global Awareness²</i>	3
	<i>PHYS 251: General Physics I Laboratory</i>	1		EDPR 210 <i>Culturally Relevant Pedagogy</i>	2
	<i>SPED 250 Intro to Exceptional Child</i>	3		EDPR 310 <i>Assessment & Technology</i>	2
	<i>EDPR 215 Curriculum Design & Inst Planning</i>	2			
	Semester Total	17		Semester Total	15
	Junior Year: First Semester			Junior Year: Second Semester	
	CHEM 441: Physical Chemistry I	3		<i>CHEM 411: Inorganic Chemistry</i>	3
	CHEM 443: Physical Chemistry I-Lab	1		<i>CHEM 451: Biochemistry I</i>	3
	BIOL Elective	4		<i>CHEM 452: Biochemistry I Laboratory</i>	2
	<i>EDPR 410 Differentiated Instruction</i>	2		Humanities / Fine Arts ²	3
	<i>EDPR 455 Ed Psych & Class Manag</i>	3		<i>SPED 448 Diag Assessment & IEP</i>	3
	<i>Free Elective</i>	2		EDPR 420 <i>Content Area Literacy</i>	3
	Semester Total	15		Semester Total	17
	Senior Year: First Semester			Senior Year: Second Semester	

	CHEM 431: Quantitative Analysis II	3		<i>EDPR 498 Clinical Practice II</i>	12
	CHEM 432: Quantitative Analysis II Lab	2			
	<i>Social and Behavioral Sciences²</i>	3			
	<i>EDPR 487 Clinical Practice I</i>	3			
	Free Elective	3			
	Semester Total	14		Semester Total	12

Total Credits: 120

Total Credit Hours: 120

¹ Students not eligible to enter MATH 131 must complete MATH 110 prior to enrolling in MATH 131

² See the list of courses which may be taken as Social & Behavioral Sciences, Knowledge of African American Culture and History, Humanities/Fine Arts, and Global Awareness electives.

MAJOR PROGRAM REQUIREMENTS

Students must earn a cumulative GPA of 2.0 or better in CHEM courses.