



Suggested degree path for the
**BACHELOR OF SCIENCE DEGREE IN CHEMISTRY (EDUCATION;
 CHED)**
 2022-23 Catalog

Name: _____ ID#: _____ Phone #: _____

FRESHMAN YEAR	<i>Fall Semester (recommended hours)</i>	<u>Prerequisite Information</u>	<u>Hours</u>	<u>Grade</u>	<u>Year/ Semester</u>	<u>Course Sub / Suggested</u>
	Fine Arts Elective (GER)		3			
	ENGL 101 English Composition I (GER)		3			
	BIOL 155 General Biology I	C in MATH 100/101	4			
	UNIV 101 University Prep (UR)	First time entering freshmen and transfer students < 30 hours.	1			
	CHEM 105 Chemistry I (Science majors)	C in MATH 100/101. 23 or better on ACT to earn MATH 101 credit	3			
	CHEM 113 Chemistry I Lab (Chemistry majors)	Co-req of CHEM 105	1			Total credits: 15
	<i>Spring Semester (recommended hours)</i>	<u>Prerequisite Information</u>	<u>Hours</u>	<u>Grade</u>	<u>Year/ Semester</u>	<u>Course Sub / Suggested</u>
	HIST 150/151 World History (GER)		3			
	ENGL 102 English Composition II (GER)	C in ENGL 100/101	3			
CHEM 106 Chemistry II (Science majors)	C in CHEM 105	3				
CHEM 114 Chemistry II Lab (Chemistry majors)	Co-req: CHEM 106	1				
MATH 165 Calculus I	C in MATH 100/101 and 102, or C in MATH 108. 27 or better on ACT to get MATH 102 credit	5			Total credits: 15	

SOPHOMORE YEAR	<i>Fall Semester (recommended hours)</i>	<u>Prerequisite Information</u>	<u>Hours</u>	<u>Grade</u>	<u>Year/ Semester</u>	<u>Course Sub / Suggested</u>
	CHEM 221 Organic Chemistry I	C in CHEM 106	3			
	PHYS 101 Physics I ((Algebra/Trigonometry Based)	C in MATH 102 or 108	3			Fall only
	PHYS 203 Physics I Lab	Co-req: PHYS 101	1			Fall only
	EDUC 250	Must earn a 22 or higher on ACT or pass PRAXIS I	3			
	EDUC 251 Intro to Tech Integration		3			
	PSYC 210 Adolescent and Adult Dev (GER)		3			Total credits: 16
	<i>Spring Semester (recommended hours)</i>	<u>Prerequisite Information</u>	<u>Hours</u>	<u>Grade</u>	<u>Year/ Semester</u>	<u>Course Sub / Suggested</u>
	CHEM 222 Organic Chemistry I	C in CHEM 221	3			
	CHEM 226 Organic Chemistry Lab	Co-req: CHEM 222	2			
CHEM 300 Quantitative Analysis	C in CHEM 106 and CHEM 110 or 114	3				
CHEM 302 Quantitative Analysis Lab	Co-req: CHEM 300	2				
PHYS 102 Physics II (Algebra/Trigonometry Based)	C in PHYS 101	3			Spring only	
PHYS 204 Physics II Lab	Co-req: PHYS 102	1			Spring only	
EDUC 312 Multicultural Classrooms		3			Total credits: 17	

STUDENTS CAN TAKE THEIR PRAXIS II IN SECTIONS IF THEY WANT TO TACKLE EACH SUBJECT WITHIN THE TEST BUT PLT MUST BE TAKEN AFTER EDUC 250/251/312. PRAXIS MUST BE COMPLETED BEFORE RESIDENCY



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		<i>Fall Semester (recommended hours)</i>	<u>Prerequisite Information</u>	<u>Hours</u>	<u>Grade</u>	<u>Year/ Semester</u>	<u>Course Sub / Suggested</u>	
J U N I O R Y E A R		CHEM 303 Physical Chemistry I	C in MATH 165, CHEM 222, & PHYS 102	3			Fall only	
		CHEM 305 Physical Chemistry I Lab	Co-req: CHEM 303	1			Fall only	
		CHEM 319 Chemical Literature	C in CHEM 222 and CHEM 300	1			Fall only	
		CHEM 435 Biochemistry I	C in CHEM 222	3				
		CHEM 437 Biochemistry Lab	C in CHEM 226;co-req:CHEM 435	1				
		HIST 255/256 American History (GER)		3				
		PSYC 311 Educational Psychology. (GER)	C in PSYC 210	3			Total credits:15	
	<i>Spring Semester (recommended hours)</i>							
			CHEM 304 Physical Chemistry II	C in CHEM 303	3			Spring only
			CHEM 306 Physical Chemistry II Lab	Co-req: CHEM 304	1			Spring only
		CHEM 405 Instrumental Analysis	CHEM 302 and 303	3				
		CHEM 407 Instrumental Analysis Lab	Co-req: CHEM 405	2				
		EDUC 441 Multicultural Education for Teachers		3				
		Humanities Elective (GER)		3			Total credits: 15	

		<i>Fall Semester (recommended hours)</i>	<u>Prerequisite Information</u>	<u>Hours</u>	<u>Grade</u>	<u>Year/ Semester</u>	<u>Course Sub / Suggested</u>	
S E N I O R Y E A R	Residency I							
		EDUC 450 Res. I in the K-12 Classroom (OCR)		3				
		EDUC 309 Methods of Instr for Sec Subjects		3				
		EDUC 313 Intro to Classroom Management		3				
		EDUC 321 Reading in the Secondary		3			Total credits: 12	
	<i>Spring Semester (recommended hours)</i>							
	Residency II							
			EDUC 368 Methods for Teaching Diverse Learners		3			
			EDUC 454 Res II in the K-12 Classroom. (OCR)		6			
			ENGL 368 Technical Writing	C in ENGL 102	3			
		EDUC 394 Tests and Measurements in Sp Education School		3			Total credits: 15	

Total Hours for Degree 120

**To register for EDUC 250 and EDUC 312 must pass all parts of Praxis I or have an ACT of 22 or higher. In addition, at least 30 hours non-developmental courses applicable to degree, C or better in all courses required for degree, 2.5 GPA, successfully completed MATH 101, ENGL 101 and 102, PSYC 210 or a history, a BIOL or PHSC science.

** To register for EDUC 450 must pass all parts of Praxis, 2.5 GPA, and completed all pre-residency coursework.

** To register for EDUC 454 must successfully complete all Residency I block coursework

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