

ACADEMIC COURSE SEQUENCE

Chemistry Education (Grade 9-Adult)

FIRST SEMESTER					
Grade	Sem	Course	Credit Hours	Prerequisites	Additional Requirements
		EDUCATION 200: FOUNDATIONS OF EDUCATION or EDUCATION 290 (Required if a transfer student with EDUC 200 completed)	3		Disposition Assessment Meet class requirements for Praxis One, PDU's and A-5
		GEN ED 101: FIRST YEAR EXPERIENCE	3		
		ENGLISH 101: ENGLISH COMPOSITION I	3	ACT-18/SAT-450	
		ARTS: Choose One: ART 101, MUSIC 107 or COMM 170	3		Gen Ed. Requirement
		MATH 120: COLLEGE ALGEBRA	3	ACT MATH 21+	
		BIO 120: FUNDAMENTALS OF BIOLOGY	4		Scientific Reasoning Gen. Ed. Requirement
		TOTAL	19		
SECOND SEMESTER					
		Course	Credit Hours	Prerequisites	Additional Requirements
		EDUCATION 201: HUMAN GROWTH AND DEVELOPMENT	3	EDUC 200	15 hrs. Field Experience Meet class requirements for Praxis One, PDU's and A-5
		ENGLISH 102: ENGLISH COMPOSITION II	3	ENGL101	
		HUMANITIES: ART 100, MUSIC 104 or COMM 140	3		Gen Ed. Requirement
		CHEM 105: GENERAL CHEMISTRY I	3	Concurrent MATH 120 or Math ACT of 23+	Substitute for Gen. Ed. Natural Science Requirement
		CHEM 107: GENERAL CHEMISTRY LAB I	2	CHEM 105	CHEM 105 - concurrent
		MATH 102: TRIGONOMETRY	3	MATH 120 or ACT-Math 23 or SAT Math-540	
		TOTAL	17		
THIRD SEMESTER					
Grade	Sem	Course	Credit Hours	Prerequisites	Additional Requirements
		EDUCATION 202: EDUCATIONAL PSYCHOLOGY AND LEARNING (Apply for candidacy with passing scores on Praxis I or exemption by ACT or SAT scores) DEADLINES: October 1 to be admitted during the Spring Semester March 1 to be admitted during the Fall Semester	3	EDUC 201 with a "C" or better	25 hours Field Experience One Oral Communication Form, ten PDU's, and two A-5 Forms must be completed to apply for candidacy.
		EDUCATION 227: EXCEPT/DIVERSITY	3	EDUC 201	Concurrent with EDUC 202
		COMMUNICATIONS 100: SPEECH COMM.	3		
		CHEM 106: GENERAL CHEMISTRY II	3	C in CHEM 105; C in MATH 120 or Math ACT 23+	
		CHEM 108: GENERAL CHEMISTRY LAB II	2	CHEM 105, 106 and 107	(Enrollment in CHEM 106 may be concurrent)
		PHYS 201: PHYSICS	4	Math 102 and 120	
		TOTAL	18		
FOURTH SEMESTER					
Grade	Sem	Course	Credit Hours	Prerequisites	Additional Requirements
		EDUCATION 300: EDUCATIONAL TECHNOLOGY	3	Admission to Candidacy	
		EDUCATION 316: INTEGRATED METHODS (Must take PLT before end of semester)	4	Admission to Candidacy	45 hrs. Field Experience Disposition Assessment
		MATH 222: STATISTICS	3	C or better in MATH 120 or ACT 23	Permission of instructor
		MATH 206: CALCULUS I	4	Math 120 and 102 or Math 121	
		CHEM 205: ORGANIC CHEMISTRY I	3	CHEM 106	
		CHEM 207: ORGANIC CHEMISTRY I LAB	2	CHEM 108 and 205	Concurrent in CHEM 205
		TOTAL	19		

Pg. 1 Effective Fall Semester 2021: All candidates must complete courses as outlined on the Academic Course Sequence. All secondary candidates must meet with the Content Advisor and the Education Advisor each semester before selecting and scheduling courses.

NOTE: Grades lower than a "C" will not be accepted as credit for degree completion.

(PW: 6.2021)

ACADEMIC COURSE SEQUENCE					
Chemistry Education (9-Adult)					
FIFTH SEMESTER					
Grade	Sem	Course	Credit Hours	Prerequisites	Additional Requirements
		EDUCATION 331: CURRICULUM FOR SPECIAL EDUCATION	3	ED 316	30 hrs. Field Experience
		CHEM 206: ORGANIC CHEMISTRY II	3	CHEM 205	
		CHEM 208: ORGANIC CHEMISTRY LAB II	2	CHEM 205, 206 and 207	(Concurrent enrollment in CHEM 206)
		CHEM 211: CHEMISTRY (Fall Only)	4	C in CHEM 106, 108 and MATH 120	Concurrent enrollment in MATH 102 or MATH 121
		CHEM 301 OR 331 (Both Offered Fall Only)	3	301: CHEM 106, 202, 206, 208, MATH 206, and PHYS 201 or 231 331: CHEM 206 and BIOL 120	Must apply for admission to CAPSTONE DEADLINES October 1 (Fall Semester) March 1 (Spring Semester) *May need 15 hours if a Promise Scholar
		TOTAL	15		
SIXTH SEMESTER					
Grade	Sem	Course	Credit Hours	Prerequisites	Additional Requirements
		EDUC 319: CONTENT LITERACY	3	EDUC 316	30 hrs. Field Experience May be concurrent with EDUC 316
		EDUC 411: TEACH SCI IN SECONDARY SCHOOLS	3	ED 316	Completion of all science courses
		HISTORY: WORLD CIVILIZATION 201 or 202 OR AMERICAN HISTORY 207 or 208	3	ENGL101	Gen. Ed Requirement
		HHP: Wellness 122 or 157	3		Gen Ed. Requirement
		CHEM 459 RESEARCH	1	Permission of the Chemistry Dept. Chair	Must be selected with Chemistry Advisor
		SCIENCE ELECTIVE	3-6		
		TOTAL ADMISSION DEADLINES FOR CAPSTONE PHASE October 1 to be admitted during the Spring Semester March 1 to be admitted during the Fall Semester	16-18		Must apply for admission to Capstone Phase
SEVENTH SEMESTER					
Grade	Sem	Course	Credit Hours	Prerequisites	Additional Requirements
		EDUCATION 426: CREATING LEARNING ENVIRONMENTS	3	Full Admission to Capstone Phase	50 hrs. Field Experience Passing score on SCOPE Assessment
		EDUC 299: RESIDENCY I COMPLETION OF A MINIMUM OF 14 WEEKS AND COMPLETION OF A MINIMUM OF 250 HOURS FOR RESIDENCY I.	9	Completion of all coursework with the exception of EDUC 426 which is a mandatory course and will be offered as an evening course during Residency I.	Daily participation in assigned classroom with Cooperating Resident Teacher. One three-hour credit course may be taken during Residency I. It must be an evening course or a 100% online course and may not be scheduled during the hours in which the residency occurs.
		TOTAL	12		*May need additional credit hours to meet scholarship requirements
EIGHTH SEMESTER					
Grade	Sem	Course	Credit Hours	Prerequisites	Additional Requirements
		EDUC 480: RESIDENCY II REQUIRES COMPLETION OF A MINIMUM OF 14 WEEKS AND 500 HOURS.	15	Passing scores on Praxis Content to enter Residency II.	One three-hour credit course may be taken during Residency I. It must be an evening course or a 100% online course and may not be scheduled during the hours in which the residency occurs.
		TOTAL	15		

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(PW: 6.2021)

General Education Requirements
(REV. 6.2021)
Chemistry Education (Grade 9 – Adult)

Name _____ A# _____

Education Advisor _____ Content Advisor _____

ARTS (3 credits)	HUMANITIES (3 credits)
Art 101: Studio I – Introduction to Art Comm 170: The Art of the Theater Music 107: Appreciation of Music	Art 100: Art Appreciation Comm 140: Film Appreciation Music 104: American Music: A Panorama
INTERNATIONAL PERSPECTIVES (3 credits)	HISTORY (3 credits)
Education 319: Content Area Literacy	History 201 or 202 (World History) History 207 (American History to 1865) History 208 (American History from 1865)
SOCIAL SCIENCE (3 credits)	WELLNESS (2 credits)
Education 201: Human Growth and Development	HHP 122: Fitness for Living (2 cr.) HHP 157: Health Living (2 cr.)
NATURAL SCIENCE (3-4 credits)	SCIENTIFIC REASONING (3-4 credits)
Biology 101: Principles of Biology (4 cr.) Biology 101H: Principles of Biology-Honors (4 cr.) Biology 108: Environmental Biology (4 cr.) Biology 110: Economic Biology (4 cr.) <u>*Biology 120: Fundamentals of Biology (4 cr.)</u> Chemistry 100: Consumer Chemistry (3 cr.) Chemistry 100H: Consumer Chemistry-Honors (3 cr.) Physics 101: Physical Science Survey I (3 cr.) Physics 102: Physical Science Survey II (3 cr.) Physics 103: Elements of Physical Science (3 cr.) Physics 106: Introduction to Physical Geology (4 cr.) Physics 107: Historical Geology (4 cr.) Physics 110: Weather and Climate (4 cr.) Physics 111: Energy and the Environment (4 cr.) Physics 120: Astronomy (3 cr.) Physics 121: Astronomy Lab (1 cr.)	Biology 101: Principles of Biology (4 cr.) Biology 101H: Principles of Biology-Honors (4 cr.) Biology 108: Environmental Biology (4 cr.) Biology 110: Economic Biology (4 cr.) Biology 120: Fundamentals of Biology (4 cr.) Chemistry 100: Consumer Chemistry (3 cr.) Chemistry 100H: Consumer Chemistry-Honors (3 cr.) Physics 101: Physical Science Survey I (3 cr.) Physics 102: Physical Science Survey II (3 cr.) Physics 103: Elements of Physical Science (3 cr.) Physics 106: Introduction to Physical Geology (4 cr.) Physics 107: Historical Geology (4 cr.) Physics 110: Weather and Climate (4 cr.) Physics 111: Energy and the Environment (4 cr.) Physics 120: Astronomy (3 cr.) Physics 121: Astronomy Lab (1 cr.)

***Must take Biology 120 if Chem 331 is selected.**

Note: Courses taken for Scientific Reasoning and Natural Science must be different.