

ACADEMIC COURSE SEQUENCE

Biology Education (9-Adult)

FIRST SEMESTER					
Grade	Sem.	Course	Credit Hours	Prerequisites	Additional Requirements
		EDUCATION 200: FOUNDATIONS OF EDUCATION or EDUC 290 (Required if a transfer student with EDUC 200 completed)	3		Disposition Assessment; Meet Class Requirements for Praxis I, one A-5 and three PDU's
		BIOLOGY 120: FUNDAMENTALS OF BIOLOGY	4		Gen Ed: Scientific Reasoning
		GEN. ED 101: FIRST YEAR EXPERIENCE	3		
		ENGLISH 101: ENGLISH COMPOSITION I	3	ACT-18 /SAT-450	
		MATH 120 COLLEGE ALGEBRA (May take Math 120 and 222 or Math 206 PRE-CALCULUS)	3	ACT Math - 19	
		WELLNESS: HHP 122 OR 157	2		Gen Ed. Requirement (Refer to page 3)
		TOTAL	18		
SECOND SEMESTER					
Grade	Sem.	Course	Credit Hours	Prerequisites	Additional Requirements
		EDUCATION 201: HUMAN GROWTH AND DEVELOPMENT	3	EDUC 200	15 hrs. Field Experience Meet class requirements for Praxis I, PDU's and A-5
		ART 101, MUSIC 107 or COMM 170 (ARTS)	3		Gen. Ed. Requirement
		ENGLISH 102: ENGLISH COMPOSITION II	3	ENG 101	
		CHEMISTRY 105: GENERAL CHEMISTRY I	3	Math 120 or ACT 23	Concurrent with Math 120
		CHEMISTRY 107: GENERAL CHEMISTRY LAB I	2	CHEM 105	Concurrent /CHEM 105
		BIOLOGY 121: BIOLOGICAL DIVERSITY	4	BIOL 120	Gen. Ed. Requirement
		TOTAL	18		
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 grade of C or higher	25 hrs. Field Experience One Oral Communication Form, ten PDU's, and two A-5 Forms must be completed to apply for admission to candidacy.
		EDUCATION 227	3	EDUC 201	Concurrent with EDUC 202
		BIOLOGY 210: BASIC ANATOMY/PHYSIOLOGY	4		
		COMMUNICATIONS 100: SPEECH COMM.	3		
		CHEMISTRY 106: GENERAL CHEMISTRY II	3	CHEM 105	'C' in Math 120 ACT-23+
		CHEMISTRY 108: GENERAL CHEMISTRY LAB II	2	CHEM 105, 106, 107	Concurrent with CHEM 106
		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
		EDUCATION 319: CONTENT AREA LITERACY	3	EDUC 316 or Concurrent with 316	30 hrs. Field Experience
		HISTORY 201 or 202: WORLD HISTORY or AMERICAN HISTORY 207 or 208	3	ENG 102	Refer to page 3
		BIOLOGY 250: GENERAL ECOLOGY	4	BIOL 120 and 121	Eligibility for Math 120
		TOTAL	17		

Pg. 1 Effective Fall Semester 2021: All candidates must complete courses as outlined in 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)

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FIFTH SEMESTER					
Grade	Sem.	Course	Credit Hours	Prerequisites	Additional Requirements
		EDUCATION 331: CURRICULUM FOR SPECIAL EDUCATION	3	EDUC 316	30 hrs. Field Experience
		MATH 222: ELEM. STATISTICS FOR MATH AND NATURAL SCIENCE	3	MATH 120 or ACT-MATH 23+	
		CHEMISTRY 201: ELEMENTARY ORGANIC CHEMISTRY AND BIOLCHEMISTRY	4	CHEM 101 or 105	
		BIOLOGY 270: GENETICS	4	BIOL 120 and 121 CHEM 106 and 108	
		MICROBIOLOGY	4	BIOL 121, CHEM 105 and 107	
TOTAL			18		
SIXTH SEMESTER					
Grade	Sem.	Course	Credit Hours	Prerequisites	Additional Requirements
		HUMANITIES: ART 100, COMMUNICATION 140 or MUSIC 104	3		Gen. Ed. Requirement
		Science Electives (Credits required depends on selection of math pathway for Math 120, 222 or 206)	7-9	*See statement at bottom of page.	Must be selected with both advisors
		Natural Science	3-4		Gen. Ed. Requirement
		EDUCATION 411: TEACHING SCIENCE	3		
		BIOLOGY 490: SCIENCE CAPSTONE	1		
TOTAL			17-20		Must apply for admission to CAPSTONE: DEADLINES October 1 (Fall Semester) March 1 (Spring Semester)
					<i>May need additional credit hours for scholarship requirements.</i>
SEVENTH SEMESTER					
Grade	Sem.	Course	Credit Hours	Prerequisites	Additional Requirements
		EDUCATION 299: RESIDENCY I (COMPLETION OF A MINIMUM OF 14 WEEKS AND COMPLETION OF A MINIMUM OF 250 HOURS FIELD EXPERIENCE)	9		Daily participation in assigned classroom with Cooperating Resident Teacher
		EDUCATION 426: CREATING LEARNING ENVIRONMENTS	3	Full Admission to Capstone Phase	50 hrs. Field Experience
TOTAL			12		
					<i>May need additional credit hours for scholarship requirements.</i>
EIGHTH SEMESTER					
Grade	Sem.	Course	Credit Hours	Prerequisites	Additional Requirements
		EDUCATION 480: RESIDENCY II – REQUIRES COMPLETION OF A MINIMUM OF 14 WEEKS AND 500 HOURS.	15		Passing scores on Praxis Content
					One three-hour credit course may be taken during Residency II. It must be an evening course and may not be scheduled during the hours in which the residency occurs.
TOTAL			15		

Elective Notification: Minimum electives required if Math 120 and 222 were selected – 7 credit hours
 Minimum electives required if Math 206 was selected – 9 credit hours

General Education Requirements
(REV. 6.2021)
Biology 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.) 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.)	<u>Biology 120: Fundamentals of Biology (4 cr.)*</u> 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.)

***Denotes course is required for Biology Education Majors**

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