



ELIZABETH CITY STATE UNIVERSITY

Curriculum Guide for Bachelor of Science Degree: Chemistry

ASSOCIATE OF ARTS DEGREE: *Universal General Education Transfer Component (UGETC)*

First two years (Freshman and Sophomore) to be completed at community college.

<u>Community College Course #</u>	<u>Hours</u>	<u>Community College Course Title</u>	<u>Elizabeth City State University Equivalency</u>	<u>Hours</u>	<u>Comments</u>
<u>English Composition</u>	<u>6 SHC</u>	<i>The following two English composition courses are required.</i>			
ENG 111	3 SHC	Writing and Inquiry	ENGL 102 Eng. Comp & Grammar	3 SHC	Required by Major.
ENG 112	3 SHC	Writing/Research in the Disciplines	ENGL 103 Eng. Comp & Vocab.	3 SHC	Required by Major.
<u>Social/ Behavioral Science</u>	<u>9 SHC</u>	<i>Select three courses from the following from at least two different disciplines.</i>			
HIS 111	3 SHC	World Civilization I	HIST 140 World Civ. I	3 SHC	Must complete HIST 140 or HIST 141. Required by General Ed.
HIS 112	3 SHC	World Civilization II	HIST 141 World Civ. II	3 SHC	
HIS 131	3 SHC	American History I	HIST 255 American History to 1877	3 SHC	Must select one (1) additional course in the Social/Behavioral Science category.
HIS 132	3 SHC	American History II	HIST 256 American History Since 1877	3 SHC	

ECO 251 ECO 252 POL 120	3 SHC 3 SHC 3 SHC	Principles of Microeconomics Principles of Macroeconomics American Government	ECON 201 Prin. of Econ. I ECON 202 Prin. of Econ. II POLS 298 American National Government	3 SHC 3 SHC 3 SHC	Required by Major.
PSY 150 SOC 210	3 SHC 3 SHC	General Psychology Intro to Sociology	PSY 212 General Psychology SOC 201 Intro to Sociology	3 SHC 3 SHC	
Humanities/Fine Arts	9 SHC	<i>Select three courses from the following from at least two different disciplines.</i>			
<u>Communications</u> COM 231	3 SHC	Public Speaking	SPCH 314 Public Speaking	3 SHC	Required by Major.
<u>Humanities/Fine Arts</u> ART 111	3 SHC	Art Appreciation	ART 130 Art Appreciation	2 SHC	Required by Major. (Take either ART 111 or MUS 110)
ART 114	3 SHC	Art History Survey I			1 semester hour used as an elective.
ART 115	3 SHC	Art History Survey II			
ENG 231	3 SHC	American Literature I	ENGL 201 World Literature I	3 SHC	Required by Major.
ENG 232	3 SHC	American Literature II	ENGL 202 World Literature II	3 SHC	
MUS 110	3 SHC	Music Appreciation	MUS 135 Intro to Music	2 SHC	Required by Major. (Take either ART 111 or MUS 110)
MUS 112	3 SHC	Introduction to Jazz			1 semester hour used as an elective.
PHI 215	3 SHC	Philosophical Issues	Social/Behavioral Science Elective	3 SHC	
PHI 240	3 SHC	Introduction to Ethics	BUAD 240 Ethics	3 SHC	
Mathematics	4 SHC	<i>Select one course from the following.</i>			
MAT 143	3 SHC	Quantitative Literacy	MATH 114 Mathematics for Liberal Arts	3 SHC	
MAT 152	4 SHC	Statistical Methods I	STAT 251 Basic Statistics	3 SHC	
MAT 171	4 SHC	Pre-calculus Algebra	MATH 118 Pre-Calculus	3 SHC	Recommended/Mathematics Elective

					1 hr. used as an elective.
<u>Nat. Sciences</u>	<u>4 SHC</u>	<i>(Select one course)</i>			
AST 111/111A	4 SHC	Descriptive Astronomy I/Lab	Natural Science Elective	4 SHC	
AST 151/151A	4 SHC	General Astronomy I/Lab	Natural Science Elective	4 SHC	
BIO 110	4 SHC	Principles of Biology	BIOL 100/100L Principles of Biological Science/Lab	4 SHC	
BIO 111	4 SHC	General Biology I	BIOL 101/101L General Biology for Majors/Lab	4 SHC	Required by Major.
CHM 151	4 SHC	General Chemistry I	CHEM 101/101/L General Chemistry/Lab	4 SHC	Recommended/GE Science. Required by Major.
GEL 111	4 SHC	Introduction to Geology	Natural Science Elective	4 SHC	
PHY 110/110A	4 SHC	Conceptual Physics and Lab	PHYS 182/182L General Physics II/Lab	4 SHC	Required by Major.
<u>Total UGETC Hours</u>	<u>32 SHC</u>				
<u>Additional GE Courses</u>	<u>12 SHC</u>				
HEA 110	3 SHC	Personal Health & Wellness	HLTH 185 Health Concepts	2 SHC	Required by General Ed. 1 hr. used as an elective.
	1SHC	Physical Activity	Physical Activity	1 SHC	Required by General Ed.
PHY 251	4 SHC	General Physics I/Lab	PHYS 181/181L General Physics I and Lab	4 SHC	Required by Major.
MAT 271	4 SHC	Calculus I	MATH 165 Calculus of Single Variable I	4 SHC	Required by Major.
<u>Total General Education Hours Required</u>	<u>44 SHC</u>				
<u>Other Required</u>	<u>15</u>				

<u>Hours</u>	<u>SHC</u>				
	4 SHC	General Biology I	BIOL 101/101L G. Biology for Majors	4 SHC	Required by Major
	4 SHC	General Biology II	BIOL 102/102L G. Biology for Majors	4 SHC	Required by Major
	4 SHC	Conceptual Physics and Lab	PHYS 182/182L General Physics II/Lab	4 SHC	Required by Major
	3 SHC	Chemistry Elective	Chemistry Elective	3 SHC	Required by Major.
Academic Transition	1 SHC	<i>The following course is required.</i>			
ACA 122	1 SHC	College Transfer Course	UNIV 122 Freshman Seminar	1 SHC	Required by CAA
Total Semester Hours in Program	60 SHC				

The Junior and Senior years will be completed at Elizabeth City State University.

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			<i>Semester 5: (16 credit hours)</i>		
			CHEM 102/102L General Chemistry II	4 SHC	Major Requirement.
			MATH 265 Calculus II	4 SHC	Major Requirement. (Pre-requisite for Major Course Requirement).
			CHEM 301/301L Organic Chemistry I/Lab	4 SHC	Major Requirement.
			CHEM 205/205L Inorganic Chemistry/Lab	4 SHC	Major Requirement.
			<i>Semester 6: (15 credit hours)</i>		
			CHEM 202/202L Analytical Chemistry I/Lab	4SHC	Major Requirement.
			CHEM 302/302L Organic Chemistry II/Lab	4 SHC	Major Requirement.
			CHEM 401/401L Biochemistry I/Lab	4 SHC	Major Requirement.
			CHEM 200 Additional Topics in General Chemistry	3 SHC	Major Requirement.
			<i>Semester 7: (15 credit hours)</i>		
			CHEM 203/203L Analytical CHEM II	4 SHC	Major Requirement.
			CHEM 405 Instrumental Methods	4 SHC	Major Requirement.
			FREE ELECTIVES	7 SHC	

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			<i>Semester 8: (14 credit hours)</i>		
			CHEM 403/403L Physical Chemistry I/Lab	4 SHC	Major Requirement.
			CHEM 499 Chemical Research	2 SHC	Major Requirement.
			CHEM 450 Chemistry: An Integrated App.	3 SHC	Major Requirement
			CHEM 350 Chemistry Seminar	1 SHC	Major Requirement.
			CHEM 300/400 Elective	4 SHC	Major Requirement.
			<u>Total ECSU Semester Credit Hours Completed</u>	<u>60 SHC</u>	
			<u>Total Semester Credit Hours Completed for Degree</u>	<u>120 SHC</u>	
			Reviewed by: Dr. Tesfaye Serbessa		
			Dr. Gloria E. Payne		Approved 02/06/2018