

**Elizabeth City State University  
Elizabeth City, NC**

**Curriculum Guide  
for  
Bachelor of Science Degree: Mathematics**

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

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

<b><u>Community College Course #</u></b>	<b><u>Hours</u></b>	<b><u>Community College Course Title</u></b>	<b><u>Elizabeth City State University Equivalency</u></b>	<b><u>Hours</u></b>	<b><u>Comments</u></b>
<b><u>English Composition</u></b>	<b><u>6 SHC</u></b>	<i>The following two English composition courses are required.</i>			
ENG 111	3 SHC	Writing and Inquiry	GE 102 Eng Comp & Grammar	3 SHC	
ENG 112	3 SHC	Writing/Research in the Disciplines	GE 103 Eng Comp & Vocab.	3 SHC	
<b><u>Social/ Behavioral Science</u></b>	<b><u>6 SHC</u></b>	<i>Select three courses from at least two different disciplines.</i>			
HIS 111	3 SHC	World Civilization I	GE 140 World Civ. I	3 SHC	Required by General Ed.
HIS 112	3 SJC	World Civilization II	GE 141 World Civ. II	3 SHC	Required by General Ed.
HIS 131	3 SHC	American History I	HIST 255 American History to 1877	3 SHC	
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		
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		
<b>Humanities/Fine Arts</b>	<b>6 SHC</b>	<i>Select two courses from at least two different disciplines.</i>				
<u>Communications</u> COM 231	3 SHC	Public Speaking	SPCH 314 Public Speaking	3 SHC	One option required by General Ed. 1 semester hour used as an elective.  Required by General Ed. Required by General Ed.  One option required by General Ed. 1 semester hour used as an elective.  Required by Major.	
<u>Humanities/Fine Arts</u> ART 111 ART 114 ART 115	3 SHC 3 SHC 3 SHC	Art Appreciation Art History Survey I Art History Survey II	GE 130 Art Appreciation	2 SHC		
ENG 231 ENG 232	3 SHC 3 SHC	American Literature I American Literature II	GE 201 World Literature I GE 202 World Literature II	3 SHC 3 SHC		
MUS 110	3 SHC	Music Appreciation	GE 135 Intro to Music	2 SHC		
MUS 112	3 SHC	Introduction to Jazz				
PHI 215	3 SHC	Philosophical Issues	Social/Behavioral Science Elective	3 SHC		
PHI 240	3 SHC	Introduction to Ethics	BUAD 240 Ethics	3 SCH		
<b>Mathematics</b>	<b>8 SHC</b>	<i>Select two courses from the following.</i>				
MAT 171	4 SHC	Pre-calculus Algebra	GE 115 College Algebra	3 SHC		
MAT 172	4 SHC	Pre-calculus Trigonometry	GE 118 Pre-calculus	3 SHC	Required by Major.	
MAT 263	4 SHC	Brief Calculus	MATH 153 Applied Calculus	3 SHC		
MAT 271	4 SHC	Calculus I	MATH 165 Calculus in Single Variable	4 SHC	Required by Major.	

<b>Nat. Sciences</b>	<b>8 SHC</b>	<i>Select 8 SHC from the following courses.</i>			
AST 151/151A	4 SHC	General Astronomy I/Lab	Natural Science Elective	4 SHC	
BIO 110	4 SHC	Principles of Biology	GE 155/155L Principles of Biological Science/Lab	4 SHC	
BIO 111	4 SHC	General Biology I	BIOL 101/101L General Biology for Majors I/Lab	4 SHC	Must take both BIO 111 and BIO 112.
BIO 112	4 SHC	General Biology II	BIOL 102/102L General Biology for Majors II/Lab	4 SHC	Must take both BIO 111 and BIO 112.
CHM 151	4 SHC	General Chemistry I	CHEM 101/101L General Chemistry I/Lab	4 SHC	Must take both CHM 151 and CHM 152.
CHM 152	4 SHC	General Chemistry II	CHEM 102/102L General Chemistry II/Lab	4 SHC	Must take both CHM 151 and CHM 152.
GEL 111	4 SHC	Introduction to Geology	Natural Science Elective	4 SHC	
PHY 110/110A	4 SHC	Conceptual Physics and Lab	Natural Science Elective	4 SHC	Must take course with lab.
PHY 151	4 SHC	College Physics I	PHYS 191 University Physics I	3 SHC	Must take both PHY 151 and PHY 152.
PHY 152	4 SHC	College Physics II	PHYS 192 University Physics II	3 SHC	Must take both PHY 151 and PHY 152.
PHY 251	4 SHC	General Physics I	PHYS 181/181L General Physics I/Lab	4 SHC	Must take both PHY 251 and 252.
PHY 252	4 SHC	General Physics II	PHYS 182/182L General Physics II/Lab	4 SHC	Must take both PHY 251 and 252.
<b>Total UGETC Hours</b>	<b>45 SHC</b>				
<b>Additional GE Courses</b>	<b>11-12 SHC</b>				
HEA 110	3 SHC	Personal Health & Wellness	GE 185 Health Concepts	2 SHC	Required by Gen. Ed. 1 hr. used as an elective.
	6 SHC	Social/Behavioral Science Elective	Social/Behavioral Science Elective	6 SHC	Required by Major.

	3 SHC	Mathematics/Science Elective	Mathematics/Science Elective	3 SHC	Required by Major.
<b>Total General Education Hours Required</b>	<b>45 SHC</b>				
<b>Other Required Hours</b>	<b>14-15 SHC</b>				
CIS 110	3 SHC	Introduction to Computers	GE 111 Intro. to Computer Applications or BUAD 190 Management Information Systems	3 SHC	Required by General Ed.
MATH 272	4 SHC	Calculus II	MATH 271	4 SHC	Required by Major.
	2 SHC	Physical Activity	Physical Activity	2 SHC	Required by General Ed.
	4 SHC	Humanities/Fine Arts	Humanities/Fine Arts	4 SHC	Required by Major.
<b>Academic Transition</b>	<b>1 SHC</b>				
ACA 122	1 SHC	College Transfer Course	GE 122 Freshman Seminar	1 SHC	Required by CAA
<b>Total Semester Hours in Program</b>	<b>60-61 SHC</b>				

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

<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>
			<i>Semester 5: (16 credit hours)</i>		
			MATH 267 Calculus III	4 SHC	Major Requirement.
			STAT 351 Probability and Statistics	3 SHC	Major Requirement.
			CSC 230 Modern Programming	3 SHC	Major Requirement.
			Free Elective 1	3 SHC	Major Requirement.
			MATH 351 Linear Algebra	3 SHC	Major Requirement.
			<i>Semester 6: (17 credit hours)</i>		
			MATH 450 Advance Calculus	3 SHC	Major Requirement.
			MATH 365 Junior Seminar	2 SHC	Major Requirement.
			MATH 358 Differential Equations	3 SHC	Major Requirement.
			MATH 275 Foundations of Mathematics	3 SHC	Major Requirement.
			Math Elective 1	3 SHC	Major Requirement.
			Free Elective 2	3 SHC	Elective.
			<i>Semester 7: (16 credit hours)</i>		
			MATH 455 Elements of Real Analysis	3 SHC	Major Requirement.

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			MATH 465 Senior Seminar	3 SHC	Major Requirement.
			MATH 354 Abstract Algebra	3 SHC	Major Requirement.
			Math Elective 2	3 SHC	Major Requirement.
			Free Elective 3	4 SHC	Elective.
			<i>Semester 8: (15 credit hours)</i>		
			Math Elective 3	3 SHC	Major Requirement.
			Math Elective 4	3 SHC	Major Requirement.
			Free Electives	9 SHC	Electives.
			<b><i>Total ECSU Semester Credit Hours Completed</i></b>	<b><i>64 SHC</i></b>	
			<b><i>Total Semester Credit Hours Completed for Degree</i></b>	<b><i>124-125 SHC</i></b>	
			Reviewed by: Dr. Farrah Jackson-Ward		Approved 11-19-2015

