

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

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

**ASSOCIATE OF ARTS 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	Required by Major.
ENG 112	3 SHC	Writing/Research in the Disciplines	GE 103 Eng Comp & Vocab.	3 SHC	Required by Major.
<b><u>Social/ Behavioral Science</u></b>	<b><u>9 SHC</u></b>	<i>Select three courses from the following 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 SHC	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	
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>9 SHC</b>	<i>Select three courses from the following from at least two different disciplines.</i>			
<i>Communications</i> COM 231	3 SHC	Public Speaking	SPCH 314 Public Speaking	3 SHC	Required by Major.
<i>Humanities/Fine Arts</i> 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	One option required by General Ed. 1 semester hour used as an elective.
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	Required by Major. Required by Major.
MUS 110 MUS 112	3 SHC 3 SHC	Music Appreciation Introduction to Jazz	GE 135 Intro to Music	2 SHC	One option required by General Ed. 1 semester hour used as an elective.
PHI 215 PHI 240	3 SHC 3 SHC	Philosophical Issues Introduction to Ethics	Social/Behavioral Science Elective BUAD 240 Ethics	3 SHC 3 SHC	
<b>Mathematics</b>	<b>3-4 SHC</b>	<i>Select one course from the following.</i>			
MAT 143	3 SHC	Quantitative Literacy	GE 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	GE 115 College Algebra	3 SHC	Required by Major. 1 hr. used as an elective.
<b><u>Nat. Sciences</u></b>	<b><u>4 SHC</u></b>	<i>(Select one course)</i>			Credits in this section will be used as electives. PHYS 251/PHYS 191 is required science in Gen. Ed. course for the B.S. in Mathematics.
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	GE 155/155L Principles of Biological Science/Lab	4 SHC	
BIO 111	4 SHC	General Biology I	BIOL 101/101L General Biology for Majors/Lab	4 SHC	
CHM 151	4 SHC	General Chemistry I	CHEM 101/101/L General Chemistry/Lab	4 SHC	
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	
<b><i>Total UGETC Hours</i></b>	<b><u>31-32 SHC</u></b>				
<b><u>Additional GE Courses</u></b>	<b><u>13-14 SHC</u></b>				
CIS 110	3 SHC	Introduction to Computers	GE 111 Intro. to Computer Applications	3 SHC	Required by General Ed.
	4 SHC	Pre-calculus	GE 118 Pre-calculus	3 SHC	Required by Major. 1 hr. used as an elective.
HEA 110	3 SHC	Personal Health & Wellness	GE 185 Health Concepts	2 SHC	Required by General Ed. 1 hr. used as an elective.
		Social/Behavioral Science Elective	Social/Behavioral Science Elective	3 SHC	Required by Major.

<b>Total General Education Hours Required</b>	<b>45 SHC</b>				
<b>Other Required Hours</b>	<b>15-16 SHC</b>				
PED	2 SHC	Physical Activity	Physical Activity	2 SHC	Required by General Ed.
MATH 271	4 SHC	Calculus I	MATH 165 Calculus of a Single Variable I	4 SHC	Required by Major
MATH 272	4 SHC	Calculus II	MATH 265 Calculus of a Single Variable II	4 SHC	Required by Major.
PHYS 251	4 SHC	General Physics I/Lab	PHYS 191/182L University Physics/Lab	4 SHC	Required by Major.
<b>Academic Transition</b>	<b>1 SHC</b>	<i>The following course is required.</i>			
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.

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			<i>Semester 5: (17 credit hours)</i>		
			MATH 267 Calculus III	4 SHC	Major Requirement.
			STAT 351 Probability and Statistics	3 SHC	Major Requirement.
			PHYS 192 Univ. Physics II	3 SHC	Major Requirement.
			PHYS 182L General Physics Lab II	1 SHC	Major Requirement.
			MATH 351 Linear Algebra	3 SHC	Major Requirement.
			CSC 230 Modern Programming	3 SHC	Major Requirement.
			<i>Semester 6: (16 credit hours)</i>		
			Fine Arts/Communication	2 SHC	Gen. Ed. Requirement.
			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.
			<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 1	4 SHC	Elective.
			<i>Semester 8: (16 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