



1891

ELIZABETH CITY STATE UNIVERSITY

Curriculum Guide for Bachelor of Science Degree: Aviation (Avionics)

ASSOCIATE OF SCIENCE DEGREE: *Universal General Education 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	
ENG 112	3 SHC	Writing/Research in the Disciplines	ENGL 103 Eng. Comp & Vocab.	3 SHC	
<u>Social/ Behavioral Science</u>	<u>6 SHC</u>	<i>Select three courses from the following from at least two different disciplines.</i>			
HIS 111	3 SHC	World Civilizations I	HIST 140 World Civ. I	3 SHC	Required by Gen. Ed.
HIS 112	3 SHC	World Civilizations II	HIST 141 World Civ. II	3 SHC	
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	3 SHC	Principles of Microeconomics Principles of Macroeconomics American Government	ECON 201 Prin. of Econ. I	3 SHC	
ECO 252	3 SHC		ECON 202 Prin. of Econ. II	3 SHC	
POL 120	3 SHC		POLS 298 American National Government	3 SHC	
PSY 150	3 SHC	General Psychology Intro to Sociology	PSY 212 General Psychology	3 SHC	
SOC 210	3 SHC		SOC 201 Intro to Sociology	3 SHC	
<u>Humanities/Fine Arts</u>	<u>9 SHC</u>	<i>Select two 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	1 hr. used as an elective. Required by Gen. Ed. 1 hr. used as an elective.
<u>Humanities/Fine Arts</u> ART 111	3 SHC	Art Appreciation	ART 130 Art Appreciation	2 SHC	
ART 114	3 SHC	Art History Survey I			
ART 115	3 SHC	Art History Survey II			
ENG 231	3 SHC	American Literature I	HIST 201 World Literature I	3 SHC	
ENG 232	3 SHC	American Literature II	HIST 202 World Literature II	3 SHC	
MUS 110	3 SHC	Music Appreciation	MUS 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			
<u>Mathematics</u>	<u>8 SHC</u>	<i>Select two courses from the following:</i>			
MAT 171	4 SHC	Pre-calculus Algebra	MATH 115 College Algebra	3 SHC	1 semester hour used as an elective.
MAT 172	4 SHC	Pre-calculus Trigonometry	MATH 118 Pre-calculus	3 SHC	Required by Major.
MATH 263	4 SHC	Brief Calculus	MATH 153 Applied Calculus	3 SHC	1 semester hour used as an elective.

MATH 271	4 SHC	Calculus I	MATH 165 Calculus in Single Variable	4 SHC	1 semester hour used as an elective.
Natural Sciences	8 SHC	<i>Select 8 SHC from the following courses:</i>			Note: Biology, Chemistry, and Physics courses must be taken in sequence.
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/L General Bio. I	4 SHC	Must take both BIO 111 and BIO 112.
BIO 112	4 SHC	General Biology II	BIOL 102/L General Bio II	4 SHC	Must take both BIO 111 and BIO 112.
GEL 111	4 SHC	Introduction to Geology	Natural Science Elective	4 SHC	
PHY 110 and PHY 110A	3 SHC and 1 SHC	Conceptual Physics and Conceptual Physics Lab	PHYS 182/182L General Physics II/Lab	4 SHC	Must take course with lab.
PHY 151 and PHY 152	4 SHC and 4 SHC	College Physics I and College Physics II	PHYS 191/Lab University Physics I and PHYS 192/Lab University Physics II	4 SHC and 4 SHC	Required by Major.
PHY 251	4 SHC	General Physics I	PHYS 181/181L General Physics I/Lab	4 SHC	Must take both PHYS 251 and 252.
PHY 252	4 SHC	General Physics II	PHYS 182/182L General Physics II/Lab	4 SHC	Must take both PHYS 251 and 252.
CHM 151	4 SHC	General Chemistry I	CHEM 101 and 101/Lab	4 SHC	Must take both CHM 151 and CHM 152.
CHM 152	4 SHC	General Chemistry II	CHEM 102 and 102/Lab	4 SHC	Must take both CHM 151 and CHM 152.
Total UGETC Hours	45 SHC				
Additional GE Courses	11-12 SHC				
PE	2 SHC	Physical Activity	Physical Activity	2 SHC	Required by Gen. Ed.
HEA 110	3 SHC	Personal Health and Wellness	HLTH 185 Health Concepts	2 SHC	1 semester hour used as an elective.

	3-4 3SHC	Natural Science and Math Elective	Natural Science and Math Elective	3-44 SHC	
	3 SHC	Social/Behavioral Science Elective	Social/Behavioral Science Elective	3 SHC	
Total General Education Hours Required	<u>45</u> <u>SHC</u>				
Other Required Hours	<u>14-15</u> <u>SHC</u>				
EGR 150	3 SHC	Intro. to Engineering	ENGT 100 Intro. to Engineering Technology	3 SHC	
	3 SHC	Elective	Free Elective	3 SHC	
			Free Elective	3 SHC	
			Free Elective	3 SHC	
			Free Elective	3 SHC	
Academic Transition	<u>1 SHC</u>	<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	<u>60-61</u> <u>SHC</u>				

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

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			<i>Semester 5: (17 credit hours)</i>		
			AVI 100 Intro. to Aviation	3 SHC	Major Requirement.
			AVNC 100 Basic Avionics	3 SHC	Concentration Requirement.
			AVI 230 Aviation Management	3 SHC	Major Requirement.
			AVI 122 Orientation Seminar for Aviation Science	1 SHC	Major Requirement.
			ENGT 205 Circuit Analysis	4 SHC	Concentration Requirement. (Will require pre-requirement waiver.)
			AVI 250 Basic Aerodynamics	3 SHC	Major Requirement.
			<i>Semester 6: (16 credit hours)</i>		
			AVI 220 Air Transportation	3 SHC	Major Requirement.
			AVI 260 Aviation Human Factors	3 SHC	Major Requirement.
			AVNC 240 Flight Communication System	3 SHC	Concentration Requirement.
			ENGT 235 Analog Circuits	4 SHC	Concentration Requirement.
			Technical Elective	3 SHC	Major Requirement.

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			<i>Semester 7: (18 credit hours)</i>		
			AVNC 360 Advanced Avionics or Any ENGT 300 or above electronics course	3 SHC	Concentration Requirement.
			AVI 370 Aviation Research Methods and Stats.	3 SHC	Major Requirement.
			AVI 410 Transition to the Aviation Industry	3 SHC	Major Requirement.
			ENGT 105 Computer Aided Design	3 SHC	Concentration Requirement.
			Technical Elective	3 SHC	Major Requirement.
			<i>Semester 8: (18 credit hours)</i>		
			AVI 270 ATC and the NAS	3 SHC	Major Requirement.
			AVI 314 Aviation Meteorology	3 SHC	Major Requirement.
			AVI 315 Aviation Legislation and Ethics	3 SHC	Major Requirement.
			AVI 460 Aviation Internship or AVI 465 Aviation Capstone	3 SHC	Major Requirement.
			AVNC 380 Flight Control System or ENGT 360 Control Systems and Instrumentation	3 SHC	Concentration Requirement.
			FLT 110 Private Pilot Ground	3 SHC	Major Requirement.

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			<i>Total ECSU Semester Credit Hours Completed</i>	<i>69 SHC</i>	
			<i>Total Semester Credit Hours Completed for Degree</i>	<i>124- 125 SHC</i>	
			Reviewed by: Ms. Robin Mangham		2-2018