



ELIZABETH CITY STATE UNIVERSITY

Curriculum Guide for

Bachelor of Science Degree: Engineering Technology (Computer Networking Engineering Technology)

ASSOCIATE OF ARTS 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	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 Civilizations I	HIST 140 World Civ. I	3 SHC	Required by Major.
HIS 112	3 SHC	World Civilizations II	HIST 141 World Civ. II	3 SHC	Required by Major.
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	ECON 201 Prin. of Econ. I	3 SHC	Preferred by Major.
ECO 252	3 SHC	Principles of Macroeconomics	ECON 202 Prin. of Econ. II	3 SHC	
POL 120	3 SHC	American Government	POLS 298 American National Government	3 SHC	
PSY 150	3 SHC	General Psychology	PSY 212 General Psychology	3 SHC	Preferred by Major.
SOC 210	3 SHC	Intro. to Sociology	SOC 201 Intro to Sociology	3 SHC	
<u>Humanities/Fine Arts</u>	<u>9 SHC</u>	<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) 1 hr. used as an elective.
ART 114	3 SHC	Art History Survey I			
ART 115	3 SHC	Art History Survey II			
ENG 231	3 SHC	American Literature I	ENGL 201 World Literature I	3 SHC	Preferred by Major.
ENG 232	3 SHC	American Literature II	ENGL 202 World Literature II	3 SHC	Preferred by Major.
MUS 110	3 SHC	Music Appreciation	MUS 135 Intro. to Music	2 SHC	Required by Major. (Take either ART 111 or MUS 110) 1 hr. used as an elective.
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>3-4 SHC</u>	<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	Elective.
MAT 171	4 SHC	Pre-calculus Algebra	MATH 115 College Algebra	3 SHC	Required by Gen. Ed.
Natural Sciences	4 SHC	<i>Select 8 SHC from the following courses:</i>			Note: Biology, Chemistry, and Physics courses must be taken in sequence.
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 155/155L Principles of Biological Science/Lab	4 SHC	
BIO 111	4 SHC	General Biology I	BIOL 101/L General Bio. I	4 SHC	
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 181/181L General Physics II/Lab	4 SHC	Required by Gen. Ed.
CHM 151	4 SHC	General Chemistry I	CHEM 101 and 101lab	4 SHC	Required by Major.
Total UGETC Hours	31-32 SHC				
Additional GE Courses	13-14 SHC				
CIS 110	3 SHC	Introduction to Computers	CSC 111 Intro. to Computer Applications	3 SHC	Required by Gen. Ed. Note that the program requires CSC 115 Programming I)
HEA 110	3 SHC	Personal Health & Wellness	HLTH 185 Health Concepts	2 SHC	Required by Gen. Ed. 1 hr. used as an elective.
	2 SHC	Physical Activity	Physical Activity	2 SHC	Required by Gen. Ed.
MAT 152	4 SHC	Stat. Methods	STAT 251 Basic Statistics	3 SHC	Elective.
	3 SHC	Social/Behavioral Science Elective	Social/Behavioral Science Elective	3 SHC	Required by Major.

<i>Total General Education Hours Required</i>	<u>48 SHC</u>				
<u>Other Required Hours</u>	<u>15-16 SHC</u>				
EGR 150	2 SHC	Intro. to Engineering (2 credit hours from EGR 210 and EGR 210)	ENGT 100/ENGT 100L Intro. to Engineering Tech.	4 SHC	Required by Major.
EGR 120	3 SHC	Engineering and Design Graphics	ENGT 105 CAD I	3 SHC	Required by Major.
EGT 210 and EGR 215	3 SHC and 2 SHC	Intro. to Electrical/Computer Engineering Lab and Network Theory I	ENGT 205/ENGT 205L Circuit Analysis/Lab	4 SHC	Required by Major.
MAT 271	4 SHC	Calculus I	MATH 165 Calculus I	4 SHC	Required by Major.
MAT 272	4 SHC	Calculus II	MATH 265 Calculus II	4 SHC	Required by Major.
<u>Academic Transition</u>	<u>1 SHC</u>	<i>The following course is required.</i>			
ACA 122	1 SHC	College Transfer Course	UNIV 110 Freshman Seminar	1 SHC	Required by CAA.
<i>Total Semester Hours in Program</i>	<u>60-61 SHC</u>				

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

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			<i>Semester 5: (15 credit hours)</i>		
			ENGL 401 Technical Writing	3 SHC	Major Requirement.
			ENGT 220 Instrumentation and Measurement	3 SHC	Major Requirement.
			ENGT 310/310L Applied Mechanics/Lab	4 SHC	Major Requirement.
			ENGT 245 Intro. To LAN & WAN	3 SHC	Major Requirement
			ENGT 255L Basic Networking Lab	2 SHC	Major Requirement.
			<i>Semester 6: (16 credit hours)</i>		
			ENGT 340 Analog and Digital comm.	3 SHC	Major Requirement.
			ENGT 235/235L Analog and Digital Circuits I/Lab	4 SHC	Major Requirement.
			ENGT 215/215L PC Hardware and Software /Lab	4 SHC	Major Requirement.
			ENGT 345/345L Routine and Switching/Lab	5 SHC	Major Requirement.
			<i>Semester 7: (16 credit hours)</i>		
			ENGT 470/470L Network Security/Lab	5 SHC	Major Requirement.
			CIS 115 Programming I	3 SHC	Major Requirement.

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			ENGT 455 Senior Project I	2 SHC	Major Requirement.
			Electives	6 SHC	Major Requirement.
			<i>Semester 8: (16 credit hours)</i>		
			ENGT 421 Operations Management	3 SHC	Major Requirement.
			ENGT 360/360L Control System/Lab	4 SHC	Major Requirement.
			ENGT 499 Senior Project II	2 SHC	Major Requirement.
			ENGT 210/210L Material and Process/Lab	4 SHC	Major Requirement.
			Elective	3 SHC	Major Requirement.
			<u>Total ECSU Semester Credit Hours Completed</u>	<u>63 SHC</u>	
			<u>Total Semester Credit Hours Completed for Degree</u>	<u>120 SHC</u>	
			Reviewed by: ECSU – Dr. Akbar Eslami		Approved 2-2-2018