



ELIZABETH CITY STATE UNIVERSITY

Curriculum Guide for

Bachelor of Science Degree: Engineering Technology (Mechanical Engineering Technology)

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 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	Required by Gen. 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	3 SHC	Principles of Microeconomics	ECON 201 Prin. of Econ. I	3 SHC	Required 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	Required by Major.
SOC 210	3 SHC	Intro to Sociology	SOC 201 Intro. to Sociology	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). 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	Required by Major.
ENG 232	3 SHC	American Literature II	ENGL 202 World Literature II	3 SHC	Required 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	BUAD 240 Ethics	3 SHC	

Mathematics	3-4 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	(Elective)
MAT 171	4 SHC	Pre-calculus Algebra	MATH 115 College Algebra	3 SHC	Required by Gen. Ed.
Nat. Sciences	4 SHC	(Select one course)			
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 101/101L General Biology for Majors/Lab	4 SHC	
CHM 151	4 SHC	General Chemistry I	CHEM 101/101L General Chemistry/Lab	4 SHC	Required by Gen. Ed.
GEL 111	4 SHC	Introduction to Geology	Natural Science Elective	4 SHC	
PHY 110/110A	4 SHC	Conceptual Physics and Lab	PHYS 181/181L General Physics II/Lab	4 SHC	Required by Gen. Ed.
Total UGETC Hours	31-32 SHC				
Additional GE Courses	13-14 SHC				
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.

CIS 110	3 SHC	Introduction to Computers	CSC 111 Intro. to Computer Applications	3 SHC	Required by Gen.I Ed. (Note that program requires CSC 115 Programming I).
Total General Education Hours Required	<u>45 SHC</u>				
Other Required Hours	<u>15-16 SHC</u>				
EGR 150	2 SHC	Intro. to Engineering (2 credit hours from EGR 210 and EGR 210L)	ENGT 100/ENGT100L Intro. to Engineering Tech/Lab	4 SHC	Required by Major.
EGR 120	3 SHC	Engineering and Design Graphics	ENGT 105 CAD I	3 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.
EGR 210	3 SHC	Intro. to Electrical/Computer Engineering Lab	ENGT 205/ENGT 205L Circuit Analysis/Lab	4 SHC	Required by Major.
And EGR 215	And 2 SHC	And Network Theory I			
Academic Transition	<u>1 SHC</u>	<i>The following course is required.</i>			
ACA 122	1 SHC	College Transfer Course	UNIV 110 Freshman Seminar I	1 SHC	Required by CAA.
Total Semester Hours in Program	<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: (16 credit hours)</i>		
			ENGT 220 Instrumentation and Measurement	3 SHC	Major Requirement.
			ENGT 245 Intro. To LAN & WAN	3 SHC	Major Requirement.
			ENGT 310/ENGT 310 Applied Mechanics/Lab	4 SHC	Major Requirement.
			ENGT 370 Computer Aided Design and Manufacturing	3 SHC	Major Requirement.
			CSC 115 Programming I	3 SHC	Major Requirement.
			<i>Semester 6: (18 credit hours)</i>		
			ENGT 235/ENGT 235L Analog and Digital Circuits I/Lab	4 SHC	Major Requirement.
			ENGT 320 Applied Fluid Mechanics	3 SHC	Major Requirement.
			ENGT 360/ENGT 360L Control Systems/Lab	4 SHC	Major Requirement.
			ENGT 385 Strength of Materials	3 SHC	Major Requirement.
			ENGT 210/ENGT 210L Material and Process/lab	4 SHC	Required by Major.
			<i>Semester 7: (15 credit hours)</i>		
			Elective	3 SHC	Major Requirement.

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			ENGT 415 Machine Design	3 SHC	Major Requirement.
			ENGL 401 Technical Writing	3 SHC	Major Requirement.
			ENGT 420 Thermal Systems	3 SHC	Major Requirement.
			ENGT 425 Thermal-Fluid Lab	1 SHC	Major Requirement.
			ENGT 455 Senior Project I	2 SHC	Major Requirement.
			<i>Semester 8: (14 credit hours)</i>		
			MNGT 421 Operations Management	3 SHC	Major Requirement.
			ENGT 460 Eng. Software Application	3 SHC	Major Requirement.
			ENGT 499 Senior Project II	2 SHC	Major Requirement.
			Elective	6 SHC	Major Requirement.
			<i>Total ECSU Semester Credit Hours Completed</i>	<i>63 SHC</i>	
			<i>Total Semester Credit Hours Completed for Degree</i>	<i>120 SHC</i>	
			Reviewed by: Dr. Akbar Eslami		Approved 2-2-2018

