

BACCALAUREATE DEGREE PLAN
Associate of Science (AS) to Bachelor of Science (BS)-Engineering Technology-Robotics and Autonomous Systems Engineering technology

North Carolina Community College Course	Specific Course Required	Elizabeth City State University Course	Comment
		A. GENERAL EDUCATION	
ENG 111 Writing and Inquiry	3 SHC	ENGL 102 Composition I	3 SHC 3
ENG 112 Writing/Research in the Disciplines	3 SHC	ENGL 103 Composition II	3 SHC 3
Communications/Humanities/Fine Arts (from m	6 SHC	Humanities and Fine Arts A or B	2-3 SHC 3
		ENGL 201/202 World Literature I/II	3 SHC 2
Social Behavioral Sciences (must come from at least two disciplines)	6 SHC	Social and Behavioral Science A	3 SHC 3
Mathematics	8 SHC	ECO 251 Prin. of Macroeconomics	ECON 201 Principles of Economics I 3 SHC 3
		MAT 172 Pre-calculus Trigonometry	MATH 118 Pre-calculus 3 SHC 3
		MAT 271 Calculus 1	MATH 165 Calculus of Single Variables I 4 SHC 3
Natural Sciences	8 SHC	PHY 251 General Physics OR PHY 151 College Physics I or CHM 151 General Chemistry I	PHYS 181/L General Physics I and lab OR PHYS 191/L University Physics or CHEM 101/L General Chemistry I and Lab 4 SHC 3
		Elective	4 SHC 4
Additional General Education Hours	11 SHC	MAT 272 Calculus II	MATH 265 Calculus of a Single Variable II 4 SHC 4
		COM 231 Public Speaking	SPCH 314 Public Speaking 3 SHC 3
			Additional General Education Hours (includes additional credits from Humanities and Fine Arts B and mathematics, if applicable) 6 SHC 4
Other Required Hours	14 SHC	Other required hours	1 SHC 1
		EGR 120 Eng. and Design Graphics	ENGT 105 CAD I 3 SHC 3
		EGR 150 Intr. To Engineering	ENGT 100 Intro. To Engineering Technology 3 SHC 3
		EGR 210 Intro. To electric/Com Eng. Lab	ENGT 100L Intr. To Engineering Technology Lab 1 SHC 1
		PED Physical Education Activity Course	Physical Education Requirement 1 SHC 1
		EGR 220 Engineering Statics	ENGT 311 Applied Mechanics 3 SHC 3
		HEA 110 Community Health	HLTH 185 Health Concepts 2 SHC 2
ACA 122 College Transfer Success	1 SHC	UNIV 110 Freshman Seminar I	1 SHC 1
TOTAL SEMESTER HOURS	60-61 SHC	TOTAL SEMESTER HOURS	60-61 SHC 15
If take this at an NC Community College, it would satisfy the requirement in column D		COURSES TO BE TAKEN AT ECSU (prerequisite)	
		ENGT 311L Applied Mechanics Lab	1 SHC 1
		ENGT 207 Circuit Analysis	3 SHC 3
		ENGT 207L Circuit Analysis Lab	1 SHC 1
		ENGT 210 Material and Processes	3 SHC 3
		ENGT 210L Material and Processes Lab	1 SHC 1
		ENGT 235 Analog and Digital I	3 SHC 3
		ENGT 235L Analog and Digital I Lab	1 SHC 1
		ENGT 220 Instrumentation & Measurement Syst.	3 SHC 3
		ENGT 245 Intro. To LAN & WAN Technology	3 SHC 3
		CSC 115 Prog. I or CSC 114 Introduction to Computer Science	3 SHC 3
		ENGT 455 Senior Project I	2 SHC 2
		ENGT 490 Project Management or MNGT 421 Operations Management	3 SHC 3
		ENGT 498 Senior Project II	2 SHC 2
		ENGT 361 Control Systems	3 SHC 3
		ENGT 360L Control Systems Lab	1 SHC 1
		ENGL 401 Technical Writing	3 SHC 3
		ENGT 305 introduction to Autonomous Mobile Robotics	3 SHC 3
		ENGT 335 Analog and Digital Circuis II	3 SHC 3
		ENGT 335L Analog and Digital Circuits II Lab	1 SHC 1
		ENGT 365 Computer Diesign and Implementation or CSC 314 Computer Architecture and Organization	3 SHC 3
		ENGT 400 Advanced Mobile Roboicis OR ENGT 410 Mechatronics System Design	3 SHC 3
		ENGT 465 Microprocessors &* Microcontrollers or any ENGT 400 level Course	3 SHC 3
		CSC 115 Prog. I or CSC 215 Computer Programming II	1 SHC 3
		Elective	5 SHC 5
		TOTAL SEMESTER HOURS AT ECSU	60 SHC 60
		TOTAL Credits required for Degree	120 credits

If you complete your AS at a North Carolina Community College, any General Education course that you have not taken that is required at Elizabeth City State University will be waived EXCEPT for those courses specified by the major program as required General Education courses.

Please note: The following ECSU General Education courses cannot be waived per the CAA: General education/cognate courses required for major, health, and physical education activity course. These courses are required for graduation from ECSU. Students may complete these courses as part of their AA or AS degree with a grade of C or higher and transfer credit to ESU to fulfill these course requirements.

Reviewed by: Akbar Eslami
Date of Review: 6/7/2021

If you complete your AS at a North Carolina Community College, any General Education course that you have not taken that is required at Elizabeth City State University will be waived EXCEPT for those courses specified by the major program as required General Education courses.

Please note: The following ECSU General Education courses cannot be waived per the CAA: General education/cognate courses required for major, health, exercise, foreign language (if required for major). These courses are required for graduation from ECSU. Students may complete these courses as part of their AA or AS degree with a grade of C or higher and transfer credit to ESU to fulfill these course requirements.

Reviewed by: Akbar Eslami
Date of Review: 6/7/2021