

BACCALAUREATE DEGREE PLAN
Associate in Science (As) to BS in Computer Science (Concentration Data Science)

North Carolina Community College Course		Specific Community College Course Required	Elizabeth City State University Course	
	<i>Course credit</i>			<i>Course credit</i>
ENG 111 Writing and Inquiry	3 SHC		ENGL 102 Composition I	3 SHC
ENG 112 Writing/Research in the Discipline	3 SHC		ENGL 103 Composition II	3 SHC
Communications/Humanities/Fine Arts (from min 2 diff disc)	6 SHC		Humanities and Fine Arts A or B	2-3 SHC
			ENGL 201/202 World Literature I/II	3 SHC
Social Behavioral Sciences (must come from at least two areas)	6 SHC		Social and Behavioral Science A	3 SHC
			Social and Behavioral Science B	3 SHC
Mathematics	8 SHC	MAT 271 Calculus I	MATH 165 Calculus I	4 SHC
		MAT 272 Calculus II	MATH 265 Calculus II	4 SHC
Natural Sciences	8 SHC		Natural Science and Mathematics B	4 SHC
			Elective or Focused Hours	4 SHC
Additional General Education Hours	11 SHC		Additional General Education Hours (including additional hours from Humanities and Fine Arts B and Mathematics if applicable)	12 SHC
Other Required Hours	14 SHC		Elective Hours	2 SHC
		CSC 134 C++ Programming	CSC 210 C++ Programming	3 SHC
		CSC 151 JAVA Programming	CSC 230 Modern Programming Languages	3 SHC
		MAT 280 Linear Algebra	MATH 351 Linear Algebra	3 SHC
		HEA 110 Personal Health & Wellness	HLTH 185 Health Concepts	2 SHC
		PED Physical Education Activity Course	Physical Education Requirement	1 SHC
ACA 122 College Transfer Success	1 SHC		UNIV 110 Freshman Seminar I	1 SHC
TOTAL SEMESTER HOURS	60-61 SHC		TOTAL SEMESTER HOURS	60-61 SHC
If take this at an NC Community College, it would satisfy the			COURSES TO BE TAKEN AT ECSU (prerequisite)	
			CSC 115 Programming I	3 SHC
			CSC 160 Computer Science Major Orientation	1 SHC
			CSC 215 Programming II	3 SHC
			CSC 218 Data Structures	3 SHC
			CSC 260 Sophomore Seminar in Computer Science	1 SHC
			CSC 314 Computer Architecture	3 SHC
			CSC 325 Database and Intelligent Systems	3 SHC
			CSC 335 Introduction to Web Design	3 SHC
			CSC 410 Net-Centric Computing	3 SHC
			CSC 412 Software Methodology & Engineering	3 SHC
			CSC 420 Operating Systems	3 SHC
			CSC 460 Senior Seminar in Computer Science	2 SHC
			MATH 262 Discrete Methods	3 SHC
			STAT 251 Basic Statistics	3 SHC
			CSC 305 Introduction to Bioinformatics	3 SHC
			CSC 401 Data Mining and Machine Learning	3 SHC
			CSC 414 Python Programming and Visualization	3 SHC
			CSC 451 Numerical and Symbolic Computing	3 SHC
F			General Electives	5 SHC

			Major Electives (any 6 credits)	6 SHC
			CSC 240 Introduction to Cybersecurity	3 SHC
			CSC 315 Programming Languages	3 SHC
			CSC 318 Algorithms	3 SHC
			CSC 322 UNIX Administration & System Programming	3 SHC
			CSC 409 Artificial Intelligence	3 SHC
			CSC 413 System Analysis & Design	3 SHC
			CSC 415 Computer Graphics	3 SHC
			CSC 421 Special Topics in Computer Science	3 SHC
			CSC 430 Undergraduate Research in Computer Science	3 SHC
			CSC 435 Advanced Web Design	3 SHC
			CSC 452 Internship	3 SHC
			MATH 360 Introduction to Crpytography and Data Security	3 SHC
			MATH 410 Linear Optimization	3 SHC
			Total Credits to be taken at ECSU	60 SHC
			Total Credits for Degree	120 SHC

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.

Reviewed by: Dr. Malcolm Dcosta
Date of Review: 6/3/2021