BACCALAUREATE DEGREE PLAN

Associate in Arts (AA) to BS in Computer Science (Concentration Data Science)

North Carolina Community College Course		Specific Community College Course Required	Elizabeth City State University Course	
	Course credit			*Course credit*
ENG 111 Writing and Inquiry	3 SHC		ENGL 102 Compostion I	3 SHC
ENG 112 Writing/Resarch in the Dis	3 SHC		ENGL 103 Composition II	3 SHC
Communications/Humanities/Fine Arts (from min 2 diff disc)	9 SHC		Humanities and Fine Arts A	3 SHC
		ENG 231 American Literature I or ENG 232 American Literature II or ENG 241 British Literature I or ENG 242 British Literature II	ENGL 201/202 World Literature I/II	3 SHC
			Humanities and Fine Arts B	2 SHC
Social Behavioral Sciences (must come from at least two areas)	9 SHC		Social and Behavioral Science A	3 SHC
			Social and Behavioral Science B	3 SHC
			Social and Behavioral Science B	3 SHC
Mathematics	3-4 SHC	MAT 271 Calculus I	MATH 165 Calculus I	4 SHC
Natural Sciences	4 SHC		Natural Science and Mathematics B	4 SHC
Additional General Education Hour	13-14 SHC		Additional General Education Hours (including additional hours from Humanities and Fine Arts B and Mathematics if applicable)	14 SHC
Other Required Hours	14 SHC		Additional Required Hours	1 SHC
		HEA 110 Personal Health & Wellness	HLTH 185 Health Concepts	2 SHC
		PED Physical Education Activity Course	Physical Education Requirement	1 SHC
		CSC 134 C++ Programming	CSC 210 C++ Programming	3 SHC
		CSC 151 JAVA Programming	CSC 230 Modern Programming Languages	3 SHC
		MAT 272 Calculus II	MATH 265 Calculus II	4 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 requirement in column D			**COURSES TO BE TAKEN AT ECSU (prerequiste)**	
			CSC 115 Programming I	3 SHC
			CSC 160 Computer Science Major Orientation Se	1 SHC
			CSC 215 Programming II	3 SHC
			CSC 218 Data Structures	3 SHC
			CSC 260 Sophomore Seminar in Computer Scienc	1 SHC
			CSC 314 Computer Architecture	3 SHC
			CSC 325 Database and Intelligent Systems	3 SHC
			CSC 335 Introduction ro 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
		MAT 280 Linear Algebra	MATH 351 Linear Algebra	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
			General Electives	2 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 Aritficial 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.

Please note: The following ECSU General Education courses cannot be waived per the CAA: General eduction/cognate courses required for

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