Department of Physical Environmental & Computer Science - A.S. - Computer Science

	FIXED/REQUIRED CORE	
Course	**Course Title**	**Credits**
English Composition		
ENGL 112	College Composition I	3
ENGL 150	College Composition II	3
Mathematics and Quantitative Reasoning		
MTH 115	Nature of Mathematics	3
REQUIRED MATH COURSE: MTH 138 College Algebra & Trigonometry		
Life and Physical Sciences		
BIO 101 **OR**	Introduction to the Science of Biology **OR**	
PHS 101	Introduction to Physical Science	3
PHY 114	Basic Physics **REQUIRED**	
TOTAL		**12**
	FLEXIBLE CORE	
World Cultures and Global Issues		
ENGL 212	World Literature: The Evolving Canon	3
U.S. Experience in its Diversity		
HIST 200	The Growth and the Development of the U. S.	3
Creative Expressions		
ART 100	Introduction to World Art	3
MUS 100	Introduction to World Music	3
Individual and Society		
SSC 101	Culture, Society, and Social Change	3
Scientific World		
CS 140	Computer Science Seminar	3
TOTAL		**18**
	MAJOR REQUIREMENTS & ELECTIVES	
CS 151	Introduction to Computing	3
CS 241	Discrete Structures	3
CS 244	Object-oriented Programming	3
CS 246	Data Structures	3
CS 265	Unix Systems Programming	3
CS 281	Database Systems	3
MTH 151	Precalculus	4
MTH 202	Calculus I	4
MTH 203	Calculus II	4
TOTAL		**30**
GRAND TOTAL		**60**

Note 1: Mathematics and Quantitative Reasoning: Students placed in MTH 151 (Pre-Calculus) or MTH 202 (Calculus I) are exempted from taking MTH 138 (College Algebra and Trigonometry). MTH 151 or MTH 202 will fulfill the Mathematics and Quantitative Reasoning requirement. Students who have already taken MTH 115 will have fulfilled the Mathematics and Quantitative Reasoning of Pathways/General Education. Students will be required to take the Mathematics sequence required for the Program.

Note 2: Life and Physical Sciences: Students placed in BIO 201 (General Biology I) are exempted from BIO 101 (Introduction to the Science of Biology). Students placed in PHY 205 (Introduction to Physics I) or PHY 211 (University Physics I) are exempted from PHS 101 (Introduction to Physical Science) and PHY 114 (Basic Physics). Students placed in CHM 201 (General Chemistry I) are exempted from CHM 112 (Basic Chemistry). Students placed in BIO 201 or PHY 211 or PHY 205 or CHM 201 will fulfill the Life and Physical Sciences requirement. Students who have already taken BIO 101 or PHS 101 or PHY 114 or CHM 112 will have fulfilled the Life and Physical Sciences of Pathways/General Education. Students will be required to take the Science sequence required for the Program.