Appendix II

B.S. in Computer Science Learning Outcome 1 Rubric

Graduates will demonstrate mastery of the foundational concepts of computing and problem solving

	Below Expectation	Satisfactory	Exemplary	Score
	0 - 1	2 - 3	4 - 5	
a. Has mastered the	Does not	Has a basic	Has a thorough	3.7
foundational	understand many of	understanding of	understanding of	
concepts of	the essential	the concepts of	the concepts of	
computing	concepts of	computing	computing and can	
including:	computing.	developed in the	work with them	
 Data type 		courses they have	effectively.	
Data structure		taken.		
 Algorithm 				
 Object 				
b. Has mastered the	Cannot apply	Can use some	Can solve complex	3.6
foundational	fundamental	problem solving	problems using a	
concepts of problem	problem solving	concepts effectively	wide range of	
solving including:	concepts.		problem solving	
 Abstraction 			concepts.	
 Divide and 				
conquer				
 Stepwise 				
refinement				
Below Expectation = student work indicates no or marginal				
acquisition of the goals of the category			Average	3.6
Satisfactory = student work indicates acquisition and integration				
of the goals of the category				
Exemplary = student work demonstrates clear understanding of				
the category as a whole				

B.S. in Computer Science Learning Outcome 2 Rubric

Graduates will demonstrate the ability to utilize design and implementation practices in traditional and emerging technology settings.

	Below Expectation	Satisfactory	Exemplary	Score
	0 - 1	2 - 3	4 - 5	
a. Able to utilize	Few of the selected	Not all of the	The program design	3.7
design practices in	structures are	selected	uses appropriate	
traditional and	appropriate.	structures are	structures. The	
emerging technology	Program elements	appropriate.	overall program	
settings.	are not well	Some of the	design is	
	designed.	program	appropriate.	
		elements are		
		appropriately		
		designed.		
a. Able to utilize	An incomplete	A completed	A completed	3.6
implementation	solution is	solution is	solution	
practices in	implemented on the	tested and runs but	runs without errors.	
traditional and	required platform.	does not	It	
emerging technology	It does not compile	meet all the	meets all the	
settings.	and/or run	specifications	specifications and	
		and/or work for all	works	
		test data.	for all test data.	
Below Expectation = student work indicates no or marginal				
acquisition of the goals of the category			Average	3.6
Satisfactory = student work indicates acquisition and integration				
of the goals of the category				
Exemplary = student				
the category as a whol	e			

B.S. in Computer Science Learning Outcome 3 Rubric

	Below Expectation	Satisfactory	Exemplary	Score
	0 - 1	2 - 3	4 - 5	
a. Able to present	Unable to use	Can use computer	Is fluent in the use	3.6
technical	computer science	science terminology	of computer science	
information in both	terminology	correctly but with	language and	
oral and written	correctly. Has	some hesitancy.	terminology. Can	
formats	difficulties verbally	Can write programs	write programs that	
	expressing	that are correct but	are correct,	
	computer science	not properly	properly	
	ideas accurately.	documented or easy	documented and	
	Cannot write code	to read.	easy to read.	
	that is correct.			
Below Expectation = student work indicates no or marginal				
acquisition of the goals of the category			Average	3.6
Satisfactory = student work indicates acquisition and integration				
of the goals of the category				
Exemplary = student work demonstrates clear understanding of				
the category as a whole				

Graduates will be able to present technical information in both oral and written formats