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Student Name

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High School or Vocational Center

**COMPETENCY RECORD FOR ARTICULATION**

**Computer Science Program  
Baker College of Muskegon**

Please check below each skill the student has mastered as described, with 80 percent accuracy, or with an A or B grade. The skills needed for articulation of each course are listed.

**CS111 INTRODUCTION TO PROGRAMMING**

<b>Task</b>	<b>Satisfactory</b>	<b>Unsatisfactory</b>
Describe the differences between the different generations of programming languages and provide an example of each generation.		
Demonstrate an understanding of programming terminology and methodology.		
Analyze a problem and develop a problem-solving algorithm to solve the problem.		
Solve a problem by using flow-charting and/or pseudocode. Utilize the resulting code or chart to design, compose and test the program.		
Distinguish between the different variable types and differentiate when each type should be used.		
Demonstrate the ability to perform calculations as required to meet specifications for a program.		
Distinguish and compare the different flow control mechanisms including the following:		
a. If-Then-Else		
b. Select-Case		
c. For-Next		
d. Do While – Loop		
e. Do Until – Loop		
f. >		
g. <		
h. ==		
i. >=		
j. &&		
Differentiate between single and two-dimensional arrays.		

Task	Satisfactory	Unsatisfactory
Organize complex computer problems into modular components using subroutines and functions.		
Demonstrate the ability to write and debug programs using simple input and output routines as well as interactive debugging tools if they are part of the selected computer language.		
Demonstrate the ability to complete a programming assignment that includes development, documentation, design, and debugging of a program.		

Teacher Signature \_\_\_\_\_ Date \_\_\_\_\_