#### PROGRAMMING – Make a Movie

Students will be introduced to basic programming concepts.

**BCS-CMW-20. Students will demonstrate an understanding of basic programming concepts**.

1. Define basic programming concepts: variable, data type, procedure, parameter, conditional, iteration, flowchart, and pseudocode.
2. Use variables of different data types in programs.
3. Write programs with sequences, conditionals, and iteration.
4. Use procedures in programs including ones that take parameters.
5. Use tools to express the design of a program: flowcharts and pseudocode.
6. Edit, compile, run, and test a program.
7. Format a program to give a pleasing, consistent appearance.
8. Discuss syntax, run-time, and logic errors.
9. Debug a simple program.

Student will make a movie from an Alice Project: Snowman Love Scene. The student will use Alice the create one female and one male snowman. The female will wait by the mailbox while the male approaches her. He’ll extend his arm and say “hello, may I have this dance?”. She’ll extend her arm and say “Thought you’d never ask.”. They dance and melt away.

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| POINTERS | POSSIBLE POINTS | POINTS EARNED/Grade |
| Snowman of female appearance | 5 |  |
| Snowman of male appearance | 5 |  |
| Speaking | 10 |  |
| Motion | 10 |  |
| Disappearance | 10 |  |
| Color Scheme | 5 |  |
| Sequence | 30 |  |
| Movie | 25 |  |
| TOTAL | 100 |  |