

Minnesota Articulated College Credit (ACC) Agreement

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Agreement Name: **Introduction to Programming**

Agreement Last Reviewed: **Fall 2023**

Next Review Date: **Fall 2025**

College Courses			
Class	Title	School	Credits
ISTC 1300	Introduction to Programming	Dakota County Technical College	3.0 of 3.0
COMC 1730	Introduction to Programming with .net	Minnesota State College Southeast	3.0 of 3.0
CST 1794	Introduction to Programming	Ridgewater College	3.0 of 3.0
COMP 1130	Programming Fundamentals	South Central College	4.0 of 4.0

Curriculum Content Objectives

To receive credit, students will demonstrate proficiency in the following content objectives:

1. Describe program development steps.
2. Describe input/output programming.
3. Use proper language syntax.
4. Use assignment operator (=).
5. Use arithmetic operators (+, -, x, ÷).
6. Utilize relational operators (<, >, <=, >=).
7. Define logical operators (&&, ||, !)
8. Create interactive programs.
9. Utilize data types.
10. Use decision structures (e.g., if, else).
11. Use looping structures (e.g., for loops, while loops).
12. Demonstrate nested decision and looping structures.
13. Create data validation programs.
14. Demonstrate dynamic debugging techniques.
15. Create modularized programs.
16. Explain local and global variables.
17. Define built-in functions.
18. Define user-defined functions.
19. Describe arrays and pointers.
20. Introduce object-orientated classes and objects (e.g., oops – object-oriented programming).

Assessments

Students must achieve no less than 80% or B for a final grade in the high school course to receive ACC.

ACC Concept

Through Articulated College Credit (ACC), specific college curriculum content goals and assessments are embedded in participating high school career and technical education (CTE) programs as specified in this agreement. Relevant knowledge, skills, and standards are taught by qualified CTE high school instructor(s) in one or more high school course. ACC is awarded if the student meets the college equivalency standards and later enrolls in the college(s) listed requiring the course in a specific program.