AP Computer Science A (CSC335) Semester 1 Final Assessment Blueprint

Year Created: 2024-2025	**Method of Delivery:** Online
Subject: Career & Technical Education	**Administration Window:** December Common Finals

Item Types Included

Type	Number of Items	Description
MC	26	Multiple Choice - Select one answer

Resources

[**Software & App Design Course Sequence**](#)

Standards At-A Glance

Standard	Number of Items	Standard Description
CTE [2018].ITEC.9-12.SAD.1.1	1	Establish objectives and outcomes for a task
CTE [2018].ITEC.9-12.SAD.12.11	1	Demonstrate the use of return values from modules
CTE [2018].ITEC.9-12.SAD.12.8	1	Name identifiers and formatting code by applying recognized conventions
CTE [2018].ITEC.9-12.SAD.13.1	1	Identify errors in program modules
CTE [2018].ITEC.9-12.SAD.13.4	1	Categorize, identify, and correct errors in code, including syntax, semantic, logic, and runtime
CTE [2018].ITEC.9-12.SAD.18.4	1	Read the state of an object by invoking accessor methods
CTE [2018].ITEC.9-12.SAD.18.5	1	Change the state of an object by invoking a modifier method
CTE [2018].ITEC.9-12.SAD.18.7	2	Create a user-defined class
CTE [2018].ITEC.9-12.SAD.4.0	1	Utilize Primitive Data Types and Strings in Writing Programs
CTE [2018].ITEC.9-12.SAD.4.1	2	Declare numeric, Boolean, character, string variables, and float and double
CTE [2018].ITEC.9-12.SAD.4.2	1	Choose the appropriate data type for a given situation
CTE [2018].ITEC.9-12.SAD.4.3	1	Identify the correct syntax and usage for constants and variables in a program
CTE [2018].ITEC.9-12.SAD.4.4	3	Identify the correct syntax and safe functions for operations on strings, including length, substring, and concatenation
CTE [2018].ITEC.9-12.SAD.4.5	1	Explain complications of storing and manipulating data (i.e., the Big-O notation for analyzing storage and efficiency concerns, etc.)
CTE [2018].ITEC.9-12.SAD.5.0	1	Perform Basic Computer Mathematics in Information Technology
CTE [2018].ITEC.9-12.SAD.5.3	3	Identify and correctly use arithmetic operations, applying the order of operations (precedence) with respect to programming
CTE [2018].ITEC.9-12.SAD.5.4	1	Interpret and construct mathematical formulas
CTE [2018].ITEC.9-12.SAD.5.5	1	Identify correct and problematic uses of integers, floating-point numbers, and fixed-point numbers in arithmetic
CTE [2018].ITEC.9-12.SAD.6.2	2	Compare values using relational operators (e.g., =, >, =, <=, not equal)
CTE [2018].ITEC.9-12.SAD.6.3	1	Evaluate Boolean expressions (e.g., AND, OR, NOT, NOR, XOR)
CTE [2018].ITEC.9-12.SAD.7.1	2	Identify various types of iteration structure (e.g., while, for, for-each, recursion)
CTE [2018].ITEC.9-12.SAD.7.2	2	Identify how loops are controlled (variable conditions and exits)
CTE [2018].ITEC.9-12.SAD.7.3	1	Use the correct syntax for nested loops
CTE [2018].ITEC.9-12.SAD.7.4	1	Compute the values of variables involved with nested loops

Some items may be tagged to more than one standard.