CompuScholar, Inc.

Correlations to the Nevada CTE Computer Science Standards **Level 2,** Grades 9 - 12

"Java Programming"

Nevada Course Details:

Course Name: Computer Science
Primary Cluster: CTE - Computer Science
CIP Code(s): 11.0701 - Level 2

Credit: 1

Grade Level: 9th-12th

Program Standards Link: Program Standards - Computer Science (2018)

Framework Link: Curriculum Frameworks - Computer Science (2018)

CompuScholar Course

Course Title: Java Programming
Course ISBN: 978-1-946113-99-3
Course Year: 2021

Note 1: Citation(s) listed may represent a subset of the instances where objectives are met throughout the course.

Note 2: Citation(s) for a "Lesson" refer to the "Lesson Text" elements and associated "Activities" within the course, unless otherwise noted. The "Instructional Video" components are supplements designed to introduce or re-enforce the main lesson concepts, and the Lesson Text contains full details.

Note 3: Citation(s) to Supplemental ("Suppl.") lessons or chapters can be found in Supplemental chapters at the end of each course.

Course Description

CompuScholar's **Java Programming** is a computer science course based on the Java language. The curriculum can be flexibly used for introductory computer science or AP Computer Science A preparation.

This document demonstrates how the course meets standards within the Nevada CTE Computer Science sequence, Level 2. Program standards not applicable for Level 2 have been omitted. Please see alignment documents for Level 1 and Level 3 (AP CSA) at the link below for details on how this course can be used to address those requirements.

https://www.compuscholar.com/nevada

Course Standards

CONTENT STANDARD 1.0 : UNDERSTAND ALGORITHMS AND PROGRAMMING	CITATION(S)	LEVEL(S)
PERFORMANCE STANDARD 1.1 : APPLY ALGORITHMS		
1.1.2 Describe how artificial intelligence drives many		_
software and physical systems	Suppl. Chapter 3, Lesson 3	2
1.1.3 Implement an artificial intelligence algorithm to play a	Suppl. Chapter 3, Lesson 3	
game against a human opponent or solve a problem	Chapter 27 (student-directed	2
	project, if desired).	
1.1.4 Use and adapt classic algorithms to solve	Chapter 13	
computational problems	Chapter 18, Lessons 4, 5	2
	Chapter 20	
1.1.5 Develop classic algorithms in code to solve	Chapter 13	
computational problems	Chapter 18, Lessons 4, 5	2, 3
	Chapter 20	
PERFORMANCE STANDARD 1.2 : IMPLEMENT CONTROLS		
1.2.2 Design and iteratively develop computational artifacts	-11	
for practical intent, personal expression, or to address a	Chapter 27 (student-directed	1, 2
societal issue by using events to initiate instructions	project with full SDLC).	,
PERFORMANCE STANDARD 1.3 : UTILIZE VARIABLES		
1.3.3 Implement arrays in code		
1.5.5 implement arrays in code	Chapter 18	2, 3
1.3.4 Implement ArrayLists and LinkedLists in code	Chapter 19	2, 3
	·	2, 3
PERFORMANCE STANDARD 1.4 : CONSTRUCT SOLUTIONS US	ING MODULARITY	
1.4.3 Construct solutions to problems using student-created	Charter 44 45 46 22 22	2
components, such as procedures, modules and/or objects	Chapters 14, 15, 16, 22, 23	2
1.4.4 Analyze a large-scale computational problem and	Chapter 13, Lesson 3	
identify generalizable patterns that can be applied to a	Chapter 20	2
solution	Chapter 24, Lessons 2, 3	2
	Suppl. Chapter 1, Lesson 3	
1.4.5 Demonstrate code reuse by creating programming	Java Class Library used	
solutions using libraries and APIs	throughout the course	2, 3
	(e.g. Chapter 5, Lesson 5,	
PERFORMANCE STANDARD 1.5 : DEMONSTRATE PROGRAMM	ING AND DEVELOPMENT	
1.5.6 Plan and develop programs for broad audiences using a	Chapter 27	
software life cycle process	Suppl. Chapter 2, Lesson 1	2
1.5.7 Explain security issues that might lead to compromised		2
computer programs	Chapter 1, Lesson 5	2
1.5.8 Develop programs for multiple computing platforms	Chapter 2, Lessons 1, 2	2

1.5.9 Use version control systems, integrated development	Chapter 27	
environments (IDEs), and collaborative tools and practices	Chapter 29	2
(code documentation) in a group software project	Suppl. Chapter 1, Lesson 2	2
	Suppl. Chapter 2, Lesson 1	
1.5.10 Develop and use a series of test cases to verify that a	Chapter 11, Lesson 1	
program performs according to its design specifications	Chapter 27, Lesson/Activity 3	2
	Suppl. Chapter 2, Lesson 1	
1.5.11 Modify an existing program to add additional	Many Chapter Activities, e.g.:	
functionality and discuss intended and unintended	Chapter 10 Activity	2
implications, e.g., breaking other functionality	Chapter 21 Activity	2
	Chapter 27, Lesson/Activity 3	

CONTENT STANDARD 2.0 : UNDERSTAND COMPUTING SYSTEMS	CITATION(S)	LEVEL(S)
PERFORMANCE STANDARD 2.1 : DESCRIBE DEVICES		
PERFORMANCE STANDARD 2.2 : COMPARE HARDWARE AND SOFTWARE		
2.2.2 Categorize the roles of operating system software	Chapter 1, Lesson 3	2
PERFORMANCE STANDARD 2.3 : EXPLAIN TROUBLESHOOTING		
2.3.2 Illustrate ways computing systems implement logic, input, and output through hardware components	Chapter 1, Lesson 2	2

CITATION(S)	LEVEL(S)		
PERFORMANCE STANDARD 3.1 : EVALUATE STORAGE SOLUTIONS			
Chapter 7, Lesson 2			
Suppl. Chapter 1, Lesson 1	2		
PERFORMANCE STANDARD 3.2 : CREATE USING COLLECTION, VISUALIZATION, AND TRANSFORMATION			
PERFORMANCE STANDARD 3.3 : CREATE USING INFERENCE AND MODELS			
,	Chapter 7, Lesson 2 Suppl. Chapter 1, Lesson 1 , VISUALIZATION, AND TRANSFOR		

CONTENT STANDARD 4.0 : UNDERSTAND IMPACTS OF COMPUTING	CITATION(S)	LEVEL(S)
PERFORMANCE STANDARD 4.1 : EVALUATE THE IMPACT OF	COMPUTING ON CULTURE	
4.1.5 Evaluate computational artifacts to maximize their beneficial effects and minimize harmful effects on society	Suppl. Chapter 3, Lessons 1 - 2	2
PERFORMANCE STANDARD 4.2 : INCREASE SOCIAL INTERACTIONS		

PERFORMANCE STANDARD 4.3 : EXPLAIN SAFETY, LAW, AND ETHICS RELATED TO COMPUTING		
4.3.4 Discuss the role of ethics in emerging technologies	Chapter 1, Lesson 4 Suppl. Chapter 3, Lessons 2 - 3	2

CITATION(S)	LEVEL(S)	
MUNICATION, AND ORGANIZATION	N	
PERFORMANCE STANDARD 5.2 : DESCRIBE CYBERSECURITY		
	CITATION(S) IMUNICATION, AND ORGANIZATIO	

Employability Skills for Career Readiness Standards

CONTENT STANDARD 1.0: DEMONSTRATE EMPLOYABILITY SKILLS FOR CAREER READINESS	CITATION(S)	LEVEL(S)
PERFORMANCE STANDARD 1.1: DEMONSTRATE PERSONAL C	QUALITIES AND PEOPLE SKILLS	
1.1.1 Demonstrate a positive work ethic by coming to work	Chapter 27 (Team project with	
every day on time, a willingness to take direction, and	team roles & deliverables)	1, 2, 3
motivation to accomplish the task at hand	Suppl. Chapter 2, Lesson 2	
1.1.2 Demonstrate integrity by abiding by workplace policies	Chapter 27 (Team project with	
and laws and demonstrating honesty and reliability	team roles & deliverables)	1, 2, 3
	Suppl. Chapter 2, Lesson 2	
1.1.3 Demonstrate teamwork skills by contributing to the	Chapter 27 (Team project with	
success of the team, assisting others, and requesting help	team roles & deliverables)	1, 2, 3
when needed	Suppl. Chapter 2, Lesson 2	
1.1.4 Demonstrate positive self-representation skills by	Chapter 27 (Team project with	
dressing appropriately and using language and manners	team roles & deliverables)	1, 2, 3
suitable for the workplace	Suppl. Chapter 2, Lesson 2	
1.1.5 Demonstrate diversity awareness by working well with	Chapter 27 (Team project with	
all customers and coworkers	team roles & deliverables)	1, 2, 3
	Suppl. Chapter 2, Lesson 2	
1.1.6 Demonstrate conflict-resolution skills by negotiating	Chapter 27 (Team project with	
diplomatic solutions to interpersonal and workplace issues	team roles & deliverables)	1, 2, 3
	Suppl. Chapter 2, Lesson 2	
1.1.7 Demonstrate creativity and resourcefulness by	Chapter 27 (Team project with	
contributing new ideas and working with initiative	team roles & deliverables)	1, 2, 3
	Suppl. Chapter 2, Lesson 2	
PERFORMANCE STANDARD 1.2: DEMONSTRATE PROFESSION	IAL KNOWLEDGE AND SKILLS	
1.2.1 Demonstrate effective speaking and listening skills by	Chanter 27	
communicating effectively with customers and employees	Chapter 27	1, 2, 3
and following directions	Suppl. Chapter 2, Activity 1	
1.2.2 Demonstrate effective reading and writing skills by	Chapter 27	
reading and interpreting workplace documents and writing	Suppl. Chapter 2, Activity 1	1, 2, 3
clearly	Suppl. Chapter 2, Activity 1	

1.2.3 Demonstrate critical-thinking and problem-solving skills by analyzing and resolving problems that arise in completing assigned tasks 1.2.4 Demonstrate healthy behaviors and safety skills by following safety guidelines and managing personal health 1.2.5 Demonstrate understanding of workplace organizations, systems, and climates by identifying "big picture" issues and fulfilling the mission of the workplace 1.2.6 Demonstrate lifelong-learning skills by continually acquiring new industry-related information and improving professional skills 1.2.7 Demonstrate job acquisition and advancement skills by preparing to apply for a job and seeking promotion 1.2.8 Demonstrate time, task, and resource management skills by organizing and implementing a productive plan of work 1.2.9 Demonstrate mathematics skills by using mathematical reasoning to accomplish tasks 1.2.10 Demonstrate customer service skills by identifying and addressing the needs of all customers and providing helpful, courteous, and knowledgeable service PERFORMANCE STANDARD 1.3: DEMONSTRATE TECHNOLOGY KNOWLEDGE AND SKILLS 1.3.1 Demonstrate proficiency with job-specific technologies by selecting and safely using technological resources to accomplish work responsibilities in a productive manner 1.3.2 Demonstrate proficiency with information technology by using computers, file management and software used throughout the course 1.2.3 the course management and software used throughout the course 1.2.3 throughout the course 1.2.3 throughout the course management and software used throughout the course 1.2.3 throughout the course management and software used throughout the course 1.2.3 throughout the course management and software used throughout the course 1.2.3 throughout the course management and software used throughout the course 1.2.3 throughout the course management and software used throughout the course material throughout the course material appropriate devices, services, and applications used throughout the course			
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