# CompuScholar, Inc.

## Alignment to Utah

# "Computer Programming 2" Course Standards (Java version)

#### **Utah Course Details:**

Course Name: Computer Programming 2

Primary Cluster: CTE / IT

Course Code(s): 35.02.00.00.032 Credit: 0.5 (Second Semester)

Grade Level: 10th-12th

State Standards Link: Computer Programming 2 Strands and Standards (July 2018)

### **CompuScholar Course Details:**

Course Title: Java Programming (Abridged)

Course ISBN: 978-0-9887070-4-7

Course Year: 2019

**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.

# **Course Description**

CompuScholar's "Java Programming (Abridged)" course is a 2-semseter experience that covers Utah's Computer Programming 1 and Computer Programming 2 standards. The course uses the Java language to teach foundational coding skills.

## **Course Standards**

STRAND 1: Students will be familiar with and use a programming environment.	CITATION(S)
Standard 1: Demonstrate knowledge of software concepts.	
a. Identify software categories e.g. application software, web-based software, mobile application, or operating system.	Chapter 1, Lesson 2
b. Describe the difference between an interpreted language vs a compiled language.	Chapter 1, Lesson 3
<b>Standard 2:</b> Demonstrate the ability to compile, debug, and execute programs.	
a. Demonstrate how to use an editor/IDE to compile and run programs.	Chapters 2, 3

b. Understand the difference between syntax, run-time, and logic errors.	Chapter 9, Lesson 1
c. Demonstrate how to debug programs.	Chapter 9, Lessons 3 - 4
	Chapter 21, Lesson 3

STRAND 2: Students will employ accepted programming methodology.	CITATION(S)
Standard 1: Demonstrate the ability to use good programming style.	
a. Demonstrate how to use white space properly.	Chapter 2, Lesson 2
b. Employ an appropriate naming convention.	Chapter 4, Lesson 2 Chapter 8, Lesson 1
c. Construct identifiers with meaningful format (i.e.: camelCase, Underscores, and ALLCAPS).	Chapter 4, Lesson 2 Chapter 8, Lesson 1
<b>Standard 2:</b> Understand that software development is a process and use a variety of creation techniques to develop 21st Century Skills.	
a. Understand specifications and requirements for computer programs.	Chapter 21, Lessons 1 - 2 Suppl. Chapter 2, Lesson 1
b. Break down the problem into sub-components.	Chapter 10, Lesson 1 Chapter 17, Lesson 4
c. Design solutions using algorithms and other problem solving techniques.	Chapter 17, Lesson 4 Chapter 19 Chapter 21, Lessons 1 - 2
d. Write the code for a program.	Throughout the course
e. Test programs for errors and proper functionality.	Chapter 9 Chapter 21, Lesson 4
f. Provide internal and external documentation for a program during development.	Chapter 21, Lessons 1 - 2 Suppl. Chapter 2, Lesson 1
g. Redo all steps as needed.	Chapter 9, Lesson 3 Chapter 21, Lesson 4
<b>Standard 3:</b> Identify the syntactical components of a programming language.	
a. Identify keywords, identifiers, operators, and operands.	Throughout the course (e.g. Chapter 7, Lesson 1)
b. Identify the entry-point of a program.	Chapter 2, Lesson 2
c. Identify statements and expressions in a program.	Chapter 2, Lesson 2 Chapter 7, Lesson 1
d. Identify program components such as functions, methods, or procedures.	Chapter 8

STRAND 3: Students will properly use language-fundamental commands and operations.	CITATION(S)
<b>Standard 1:</b> Demonstrate the ability to use basic elements of a specific language.	
a. Write programs formatted based on the conventions of the utilized language.	Chapter 2, Lesson 2 and Throughout the course
b. Declare, initialize, and assign values to constants and variables.	Chapter 4, Lesson 2
c. Demonstrate the ability to use input and output commands.	Chapter 6
d. Communicate clearly with output values stored in identifiers.	Chapter 4, Lesson 3 and Throughout the course
e. Demonstrate the ability to use strings.	Chapter 5
Standard 2: Employ basic arithmetic expressions in programs.	
a. Use basic arithmetic operators (modulus, multiplication, division, addition, subtraction).	Chapter 4, Lesson 2
b. Understand order of operation of expressions.	Chapter 7, Lesson 1
c. Write expressions that mix floating-point and integer expressions.	Chapter 7, Lesson 1 and as needed elsewhere
Standard 3: Demonstrate the ability to use data types in programs.	
a. Declare and use variable types (primitives, reference, or object).	Chapter 4, Lessons 2 - 3 Chapter 5, Lesson 1 Chapter 10, Lesson 2
b. Declare and use constants.	Chapter 4, Lesson 2
c. Know the difference between data types and their application (boolean, integer, floating point, strings).	Chapter 4, Lesson 1 Chapter 5, Lesson 1

STRAND 4: Students will properly employ control structures.	CITATION(S)
<b>Standard 1:</b> Demonstrate the ability to use relational and logical operators in programs.	
a. Compare values using relational operators.	Chapter 7, Lessons 1 - 2
b. Form complex expressions using logical operators.	Chapter 7, Lesson 1
<b>Standard 2:</b> Demonstrate the ability to use decisions in programs.	
a. Employ simple IF structures.	Chapter 7, Lesson 2

b. Use IF-ELSE structures.	Chapter 7, Lesson 2
c. Write programs with nested IF-ELSE structures.	Chapter 7, Lesson 2 Chapter 16, Activity 3
d. Make multiple-way selections (switch, case).* (Language specific)	Chapter 7, Lesson 3
Standard 3: Demonstrate the ability to use loops (iteration) in programs.	
a. Use initial (starting) value, terminal (ending) condition, and incrementation (change)in loops.	Chapter 7, Lesson 4
b. Construct pretest loops (while), posttest loops (do-while), and for loops.	Chapter 7, Lessons 4 - 5
c. Describe the various ways that loops can end (i.e., sentinel, break, condition fail, etc.).	Chapter 7, Lessons 4 - 5
d. Design loops so they iterate the correct number of times (i.e., off by one errors, infinite loops, etc.).	Chapter 7, Lessons 4 - 5
e. Accumulate running totals using loops.	Chapter 7 Activity
f. Utilize nested loops.	Chapter 7, Lesson 5 Chapter 19, Lesson 2
<b>Standard 4:</b> Demonstrate the ability to use modularity in programs using functions or methods.	
a. Demonstrate how to use language-defined functions and/or methods. *	Chapter 5, Lessons 3 - 4 Chapters 12, 13 Chapter 17, Lesson 1
b. Utilize value and/or reference parameters. *	Chapter 8, Lesson 2 and as needed elsewhere
c. Understand the scope of identifiers (local, global (class), and instance variables). *	Chapter 8, Lesson 1 Chapter 10, Lesson 2
d. Return values.	Chapter 8, Lesson 2

STRAND 5: Students will demonstrate knowledge of current ethical issues dealing with computers and information in a global society using 21st Century Skills.	CITATION(S)
Standard 1: Demonstrate knowledge of the social and ethical consequences	
of computers.	
a. Explain the ethical reasons for creating reliable and robust software.	Chapter 1, Lesson 4
b. Explain the impact software can have on society (i.e., privacy, piracy,	Chapter 1, Lesson 4
copyright laws, ease of use, etc.).	Supplemental Chapter 3
c. Show how security concerns can be addressed in an application (i.e.,	Chapter 1, Lesson 5
biometrics, passwords, information hiding, etc.).	Suppl. Chapter 3, Lesson 1
d. Describe how computer-controlled automation affects a workplace and society.	Suppl. Chapter 3, Lessons 2 - 3

e. Give examples of ways to protect information on computer systems	Chapter 1, Lesson 5
(attacks, viruses, malware, etc.).	

STRAND 6: Students will be aware of career opportunities in the Computer	CITATION(S)
Programming/Software Engineering industry and of its history.	` ,
Standard 1: Investigate career opportunities, trends, and requirements	
related to computer programming/software engineering careers.	
a. Identify the members of a computer programming/software engineering	Suppl. Chapter 2, Lessons 1 - 2
team: team leader, analyst, senior developer, junior developer, and	
client/subject matter expert.	
b. Describe work performed by each member of the computer	Suppl. Chapter 2, Lessons 1 - 2
programming/software engineering team.	
c. Investigate trends and traits associated with computer	Suppl. Chapter 2, Lessons 2 - 3
programming/software engineering careers (creativity, technical, leadership,	
collaborative, problem solving, design, etc.).	
d. Discuss related career pathways.	Suppl. Chapter 2, Lessons 2 - 3

STRAND 7: Students will employ static (array), dynamic (vector, ArrayList, etc.) list structures, and strings. (Semester 2 Strands)	CITATION(S)
<b>Standard 1:</b> Demonstrate the ability to use static arrays/lists in programs.	
a. Declare and initialize arrays/lists of all applicable types.	Chapter 14, Lessons 1-2
b. Perform data input to and output from arrays/lists.	Chapter 14, Lessons 1-2
c. Perform operations on arrays/lists including sort arrays.	Chapter 14, Lessons 1-4 Chapter 19, Lessons 2 - 3
d. Iterate through the structure (i.e. for-each, enhanced for, or iterators)	Chapter 14, Lesson 5
<b>Standard 2:</b> Demonstrate the ability to use dynamic arrays/lists (i.e. vectors, ArrayList, or generic lists)	
a. Declare and initialize a dynamic array/list.	Chapter 14, Lessons 3-4
b. Add and remove items from the array/list.	Chapter 14, Lessons 3-4
c. Output data from arrays/lists.	Chapter 14, Lessons 3-4
d. Perform operations on arrays/lists.	Chapter 14, Lessons 3-4
e. Iterate through the structure (i.e. for-each, enhanced for, or iterators)	Chapter 14, Lesson 5

Standard 3: Demonstrate the ability to use strings in programs.	
a. Compare string values.	Chapter 5, Lessons 2 - 3
b. Find the length of a string.	Chapter 5, Lesson 3
c. Copy part or all of string values into other strings.	Chapter 5, Lesson 3
d. Concatenate string values.	Chapter 5, Lesson 4
e. Locate substring positions.	Chapter 5, Lesson 3
f. Insert strings into other strings.	Chapter 5, Lesson 3

STRAND 8: Students will properly employ object-oriented programming	CITATION(S)
techniques.	. ,
Standard 1: Demonstrate the ability to use existing classes.	
a. Instantiate objects.	Chapter 10, Lesson 2
b. Use object data members (i.e., Java's arr. length).	Chapter 10, Lessons 2 - 3 Chapter 14, Lesson 1
c. Use object member functions (methods).	Chapter 10, Lessons 2 - 3
Standard 2: Demonstrate the ability to create user-defined classes.	
a. Create and use data members (instance variables).	Chapter 10, Lessons 2 - 3 Chapter 10-11 Activities
b. Create a constructor to initialize the data members.	Chapter 11, Lesson 1 Chapter 10-11 Activities
c. Create and use member functions (methods).	Chapter 8 Chapter 10, Lessons 2 - 3 Chapter 10-11 Activities
Standard 3: Demonstrate proper design principles with classes.	
a. Create classes that are well encapsulated (private data members).	Chapter 10, Lessons 1-3
b. Properly use modifiers and accessors (getters and setters).	Chapter 10, Lesson 3
c. Understand appropriate private and public modifiers according to program design.	Chapter 10, Lesson 3

STRAND 9: Students will properly use sequential files.	CITATION(S)
Standard 1: Demonstrate the ability to use sequential files in programs.	
a. Create and initialize sequential files.	Chapter 18, Lessons 2-3
b. Store data to sequential files.	Chapter 18, Lessons 2-3
c. Retrieve data from sequential files.	Chapter 18, Lessons 2-3
d. Update sequential files.	Chapter 18, Lessons 2-3

Suppl. Chapter 2, Lesson 1  c. Choose appropriate data structures and processing.  Chapter 21, Lessons 1 - 2 Suppl. Chapter 2, Lesson 1  e. Use appropriate test data.  Chapter 9, Lesson 3 Chapter 21, Lesson 4  f. Write good documentation.  Chapter 21, Lessons 1 - 2 Suppl. Chapter 2, Lessons 1 - 2 Suppl. Chapter 2, Lessons 1 - 2 Suppl. Chapter 2, Lessons 1, 4  Standard 2: Demonstrate the ability to use teamwork and collaboration in a programming project.  a. Divide a project among programmers.  Chapter 21, Lessons 1 - 2 Suppl. Chapter 21, Lessons 1  Chapter 21, Lesson 1  Chapter 21  Chapt	STRAND 10: Students will apply appropriate programming skill as an effective member of a team demonstrating the ability to collaborate with others (www.p21.org).	CITATION(S)
Chapter 21, Lessons 1 - 2 Suppl. Chapter 21, Lessons 1 - 2 Suppl. Chapter 22, Lesson 1  b. Choose proper input parameters.  Chapter 21, Lessons 1 - 2 Suppl. Chapter 2, Lesson 1  c. Choose appropriate data structures and processing.  Chapter 22, Lessons 1 - 2 Suppl. Chapter 2, Lessons 1 - 2 Suppl. Chapter 22, Lessons 1 - 2 Suppl. Chapter 22, Lessons 1 - 2 Suppl. Chapter 23, Lessons 1 - 2 Suppl. Chapter 24, Lesson 1  c. Use appropriate test data.  Chapter 9, Lesson 3 Chapter 21, Lesson 3 Chapter 21, Lesson 4  chapter 21, Lessons 1 - 2 Suppl. Chapter 22, Lessons 1 - 2 Suppl. Chapter 23, Lessons 1 - 2 Suppl. Chapter 24, Lessons 1 - 2 Suppl. Chapter 25, Lessons 1 - 2 Suppl. Chapter 26, Lessons 1 - 2 Suppl. Chapter 27, Lesson 1  c. Coordinate work to a group.  Chapter 21		
Suppl. Chapter 2, Lesson 1 b. Choose proper input parameters. Chapter 21, Lessons 1 - 2 Suppl. Chapter 2, Lesson 1 c. Choose appropriate data structures and processing. Chapter 21, Lessons 1 - 2 Suppl. Chapter 2, Lesson 1 c. Choose appropriate output. Chapter 21, Lessons 1 - 2 Suppl. Chapter 2, Lesson 1 chapter 21, Lessons 1 - 2 Suppl. Chapter 2, Lesson 1 chapter 21, Lessons 1 - 2 Suppl. Chapter 2, Lesson 1 chapter 21, Lesson 3 Chapter 21, Lesson 3 Chapter 21, Lesson 4 chapter 21, Lessons 1 - 2 Suppl. Chapter 2, Lesson 1 chapter 21, Lessons 1 - 2 Suppl. Chapter 2, Lessons 1, 4  Standard 2: Demonstrate the ability to use teamwork and collaboration in a programming project. a. Divide a project among programmers. Chapter 21, Lessons 1-2 Suppl. Chapter 2, Lesson 1 b. Present work to a group. Chapter 21 c. Coordinate work with others in the group. Chapter 21 c. Coordinate work with others in the group. Chapter 21 Ch		
b. Choose proper input parameters.  Chapter 21, Lessons 1 - 2 Suppl. Chapter 2, Lesson 1  C. Choose appropriate data structures and processing.  Chapter 21, Lessons 1 - 2 Suppl. Chapter 2, Lesson 1  Chapter 21, Lessons 1 - 2 Suppl. Chapter 2, Lesson 1  Chapter 21, Lessons 1 - 2 Suppl. Chapter 2, Lesson 1  Chapter 21, Lessons 1 - 2 Suppl. Chapter 2, Lesson 1  e. Use appropriate test data.  Chapter 9, Lesson 3 Chapter 21, Lesson 4  Chapter 21, Lessons 1 - 2 Suppl. Chapter 2, Lesson 1  Standard 2: Demonstrate the ability to use teamwork and collaboration in a programming project.  Divide a project among programmers.  Chapter 21, Lessons 1 - 2 Suppl. Chapter 2, Lesson 1  Chapter 21, Lessons 1  Chapter 21, Lessons 1  Chapter 21  Chap	a. Formalize specifications.	<u> </u>
Suppl. Chapter 2, Lesson 1  c. Choose appropriate data structures and processing.  Chapter 21, Lessons 1 - 2 Suppl. Chapter 2, Lesson 1  Chapter 21, Lessons 1 - 2 Suppl. Chapter 2, Lesson 1  Chapter 21, Lessons 1 - 2 Suppl. Chapter 2, Lesson 1  e. Use appropriate test data.  Chapter 9, Lesson 3 Chapter 21, Lesson 4  f. Write good documentation.  Chapter 21, Lessons 1 - 2 Suppl. Chapter 2, Lesson 3 Chapter 21, Lessons 1 - 2 Suppl. Chapter 2, Lessons 1  Standard 2: Demonstrate the ability to use teamwork and collaboration in a programming project.  a. Divide a project among programmers.  Chapter 21, Lessons 1 - 2 Suppl. Chapter 2, Lesson 1  b. Present work to a group.  Chapter 21  Ch		
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a. Divide a project among programmers.  Chapter 21, Lessons 1-2 Suppl. Chapter 2, Lesson 1  Chapter 21  Chapter 21, Lesson 1  Chapter 21, Lesson 1  Chapter 21, Lesson 1  Chapter 21  Chap	<b>Standard 2:</b> Demonstrate the ability to use teamwork and collaboration in a	
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c. Coordinate work with others in the group.  d. Complete assigned work according to predetermined deadlines.  e. Participate in a peer performance evaluation.  Chapter 21  Chapter 21  Chapter 21  Chapter 21  Chapter 21  Chapter 21  Chapter 21, Lesson 1		Suppl. Chapter 2, Lesson 1
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	f. Demonstrate professionalism in team relationships, communication,	
	timeliness, and attitude.	Suppl. Chapter 2, Lesson 2