

Week	Chapter	Assignment	SD Technology Standards
1,2,	Review	Knowledge Check	JP3.1
		Review exercises	JP3.2
		Debugging Exercises	JP5.3
3,4	<p>Arrays, loops and layout managers. (5)</p> <ul style="list-style-type: none"> • Create and implement an external class • Write code to create a constructor class method • Construct an instance method to initialize instance variables • Declare and construct an array using correct notation • Use layout managers with container components • Code a counter-controlled loop using the for statement • Correctly employ assignment and unary operators • Use methods with Frame, Panel, Choice, and TextArea components 	<p>Program 5.1</p> <p>Program 5.1</p> <p>Program 5.2</p> <p>Program 5.2</p> <p>Program 5.2</p> <p>Program 5.3</p> <p>Program 5.4</p> <p>Program 5.5</p>	<p>JP3.2</p> <p>JP3.3</p> <p>JP3.3</p> <p>JP3.3</p> <p>JP3.2</p> <p>JP5.2</p> <p>JP5.3</p> <p>JP5.2</p>

Week	Lesson	Assignment	SD Technology Standards
5,6	Creating menu and button arrays. (6) <ul style="list-style-type: none"> • Create and implement private variables • Include a menu system in a GUI application • Manipulate Button arrays • Move data in and out of the system clipboard • Differentiate between the <code>getActionCommand()</code> and <code>getSource()</code> methods • Write code to search for which component was clicked • Use multiple layout managers • Program multiple case solutions • Change the icon in a Java program's title bar • Access methods from the Toolkit class 	Program 6.1 Program 6.2 Program 6.2 Program 6.3 Program 6.4 Program 6.5 Program 6.6 Program 6.7 Program 6.7 Program 6.7	JP3.3 JP5.2 JP5.2 JP3.3 JP1.2 JP5.2 JP3.2 JP5.2 JP3.2 JP3.2
7,8	Sorting & searching (7) <ul style="list-style-type: none"> • List features of the Java Foundation Classes (JFC) • Differentiate between AWT and Swing components • Create a JFrame application • Sort data in parallel arrays 	Knowledge Check Knowledge Check Program 7.1 Program 7.2	JP1.2 JP1.2 JP3.3 JP3.3

Week	Lesson	Assignment	SD Technology Standards
	<ul style="list-style-type: none"> • Use the keyword, super, in a constructor method • Create a tool tip • Use methods associated with JPanels, JComboBoxes, JLabels, JTextPanes, and JScrollPanes • Use Tabs and Styles in a JTextPane • Use methods associated with the Document class • Perform linear searches • Incorporate Look and Feel methods in an interface 	<p>Program 7.3</p> <p>Program 7.3</p> <p>Program 7.4</p> <p>Program 7.4</p> <p>Program 7.5</p> <p>Program 7.6</p> <p>Program 7.6</p>	<p>JP3.2</p> <p>JP3.3</p> <p>JP5.3</p> <p>JP5.2</p> <p>JP5.2</p> <p>JP5.2</p> <p>JP5.2</p>
9,10, 11	<p>Sequential files(8)</p> <ul style="list-style-type: none"> • Explain the use of volatile and nonvolatile data • Set the Look and Feel using the UIManager class • Customize a JFrame using the setResizable() and setLocation() methods • Format dates using letter descriptors and the SimpleDateFormat class • Concatenate a formatted date String onto a file name 	<p>Knowledge Check</p> <p>Knowledge Check</p> <p>Program 8.1</p> <p>Program 8.2</p> <p>Program 8.3</p>	<p>JP1.2</p> <p>JP3.3</p> <p>JP3.3</p> <p>JP3.3</p> <p>JP3.3</p>

Week	Lesson	Assignment	SD Technology Standards
	<ul style="list-style-type: none"> • Demonstrate the data hierarchy • Differentiate between sequential and random access files • Create a sequential file using Java's DataOutputStream • Construct an instance of the DataOutputStream • Describe user events and listener types • Implement the showConfirmDialog() method • Use write() methods to send data to a secondary storage device • Verify the existence of a data file 	<p>Knowledge Check</p> <p>Knowledge Check</p> <p>Program 8.4</p> <p>Program 8.4</p> <p>Knowledge Check</p> <p>Program 8.5</p> <p>Program 8.6</p> <p>Program 8.7</p>	<p>JP1.2</p> <p>JP1.2</p> <p>JP3.3</p> <p>JP3.3</p> <p>JP5.2</p> <p>JP5.2</p> <p>JP5.2</p> <p>JP5.2</p>
12,13	<p>Using a collection and strings(9)</p> <ul style="list-style-type: none"> • Differentiate between sequential and random access files • Create a sequential file using Java's DataOutputStream • Construct an instance of the DataOutputStream • Describe user events and listener types • Implement the showConfirmDialog() method 	<p>Knowledge Check</p> <p>Program 9.1</p> <p>Program 9.2</p> <p>Knowledge check</p> <p>Program 9.3</p>	<p>JP1.2</p> <p>JP5.3</p> <p>JP5.2</p> <p>JP1.2</p> <p>JP3.3</p>

Week	Lesson	Assignment	SD Technology Standards
	<ul style="list-style-type: none"> • Verify the existence of a data file. • Use write() methods to send data to a secondary storage device 	Program 9.4 Program 9.5	JP5.2 JP5.2
14,15	Abstract Classes (10) <ul style="list-style-type: none"> • Describe an inheritance hierarchy • Discuss single versus multiple inheritance • Identify class inheritance versus interface implementation • Distinguish between abstract and concrete classes • Create related classes using inheritance • Create an abstract class • Extend an abstract class • Use a final method • Create a final class • Explain how to concatenate method calls • Create a multiple Window user interface • Use a callback mechanism • Implement an interface • Use adapter classes 	Knowledge Check Knowledge Check Knowledge Check Knowledge Check Program 10.1 Program 10.2 Program 10.3 Program 10.4 Program 10.5 Knowledge Check Program 10.6 Program 10.7 Program 10.7 Program 10.7	JP1.2 JP1.2 JP3.1 JP3.1 JP3.3 JP3.3 JP3.3 JP3.3 JP5.2 JP4.2 JP5.2 JP3.3 JP5.3 JP5.3

Week	Lesson	Assignment	SD Technology Standards
16,17	Swing interfaces.		
	<ul style="list-style-type: none"> List features of the Java Foundation Classes (JFC) 	Knowledge Check	JP1.2
	<ul style="list-style-type: none"> Differentiate between AWT and Swing components 	Knowledge Check	JP1.2
	<ul style="list-style-type: none"> Create a JFrame application 	Program 11.1	JP5.2
	<ul style="list-style-type: none"> Sort data in parallel arrays 	Program 11.2	JP3.3
	<ul style="list-style-type: none"> Use the keyword, super, in a constructor method 	Program 11.3	JP3.3
	<ul style="list-style-type: none"> Create a tool tip 	Program 11.4	JP5.2
	<ul style="list-style-type: none"> Use methods associated with JPanels, JComboBoxes, JLabels, JTextPanes, and JScrollPanes 	Program 11.5	JP5.2
18	Finals Week	Review & semester test	JP5.3

Grading Scale: Brookings High School

Classroom %: In-class work 20%

A+: 98-100 B+: 91-89 C+: 80-82 D+:71-73

Programs – 40%