






































Course	FA20 Section	Wk.	Sess.	submission session description	Resources	Learning Objectives	Out-of-class work
					Object Project Guide Object Project Examples & Starter Seeds Email Eric a Final Grade Proposal Card <i>All work and grade proposals due @ morning light on Monday, 17-MAY'21</i> Grading guide Submit last work form FINAL Weekly work form		










CIT-130: Object-oriented design in Java





The following table maps course session dates, lesson topics, LIANG9 references, and content links for all three Java courses in the series.















Course	SP21 Est.	Wk.	Sess.	Session description	Resources	Learning objectives	Out-of-class work
CIT-130	TUE 19-JAN-21	-1	1	Introduction to course  Session Recording 19-JAN-2021	 CIT-130: SP21 Syllabus  NetBeans and Java Install guide <i>Review material: from CIT-111</i>  Module 1: Java Modeling in class DonutLand  Module 2: Creatures eat SizedDonuts  Module 3: Disaster recovery simulation  Module 4: Car Modeling in Back To The Future <div style="border: 1px solid black; padding: 2px; display: inline-block;"> archive</div>	Create a simple Java program that demonstrates your abilities in the language at the start of our course	Install your favorite JVM and IDE: Suggested to use NetBeans 11
CIT-130	THU 21-JAN-21		2	 Session Recording 21-JAN-2021			
CIT-130	TUE 26-JAN-21	0	1	TUE-26-JAN Java array manipulation  Session Recording 26-JAN-2021	 Arrays code written in class TUE-26-JAN  CIT-111: Arrays Module  Array Models Shared Google Doc  LIANG9 Chapter 6  LIANG9 Chapter 9	Create and manipulate single and multi-dimensional arrays using object-oriented design techniques of an object class and a client class.	<i>Tuesday's TODO for Thursday</i> 1) Populate our collected item array and demonstrate the methods on CollectedItems 2) Create a second instance of CollectedItems and load it up with the titles of a few of your favorite songs <i>Thursday's TODO for next week</i>






Course	SP21 Est.	Wk.	Sess.	Session description	Resources 	Learning objectives	Out-of-class work
CIT-130	THU 28-JAN-21		2	User-input groupwork  Session Recording Part 1 28-JAN'21  After group work			<ol style="list-style-type: none"> 1. Create a user interface that allows them to create a list of a desired size, with a desired name, and add elements to that list, and display its contents. 2. Optional Extensions: Create additional methods on CollectedItems such as clearList(), randomlyOrderItems(), or an appropriately named method to rename a given item and show that the change took effect in memory.
CIT-130	TUE 2-FEB-21	1	1	 Session Recording 2-FEB'21	Collected items code submission Code submission form	Create multi-dimensional arrays and access their elements with nested for-loops	TODO for Thursday 4-FEB-21: Create a more useful output as you loop over the multi-dimensional arrays. See comments in the code posted on github from class . Optional: Create a grid-based layout for a multi-dimensional array of your own creation.
CIT-130	THU 4-FEB-21		2	Applying multi-dimensional arrays to song lyrics  Session Recording Pt.1: 4-FEB'21  Session Recording Pt.2: 4-FEB'21	Multi-Dimensional Arrays in-class code <> Class MultiDimensionalArrays on github Applying multi-dimensional arrays  Song Arrays Specs <> LyricMachine.java <> SongLand.java		TODO for Tuesday, 9-FEB: Begin work on our LyricMachine using our sample LyricMachine and SongLand as a guide. Links are two columns left <--
CIT-130	TUE 9-FEB-21	2	1	Multi-dimensional array project work  Session Recording 9-FEB'21: Karaoke Machine Test!	<i>Building out Multi-Dim Array Project with Objects</i> LIANG-9, Chapter 7: Multi-Dim Arrays (11ed:ch.8) Applying multi-dimensional arrays  Song Arrays Specs <> LyricLine.java	Create and Manipulate Multi-Dimensional Arrays	<i>Submit your project</i> Submission target: Tue-16-FEB'21 at morning light  Spring 21 Work Tracker

Course	SP21 Est.	Wk.	Sess.	Session description	Resources	Learning objectives	Out-of-class work
CIT-130	THU 11-FEB-2021		2	First implementation of the Student class hierarchy	<> SongWorld.java  archive		
CIT-130	TUE 16-FEB-2021	3	1		 Collections classsds practice  archive		
CIT-130	THU 18-FEB-2021		2				
CIT-130	TUE 23-FEB-2021	4	1		Inheritance Pt.1: Create a class hierarchy (a tree) by giving a class a parent with extends  LIANG9: Chapter 11 - Inheritance	CCAC.130.LO.5: Apply Java language elements to create programs utilizing inheritance  archive	Study the Liang9 chapter 11 - inheritance and complete the two practice questions and the mini-project
CIT-130	THU 25-FEB-2021		2	Print and include in your folder your Student[] array class	Inheritance Pt.2: Modeling computer timelines  Timeline project specs  LIANG9: Chapter 11 - Inheritance Create a Java-based representation of the computer history timeline hanging in the hall outside of S21133  Computing power timeline		
CIT-130	TUE 2-MAR-2021	5	1		 Timeline project specs  LIANG9: Chapter 11 - Inheritance Create a Java-based representation of the computer history timeline hanging in the hall outside of S21133	TR.130.5.L.1: Create a class hierarchy diagram by hand of your chosen API classes including all relevant interfaces and super-classes 5.L.2:	
CIT-130	THU 4-MAR-2021		2	Worktime on timeline modeling	 Computing power timeline  archive		
CIT-130	TUE 9-MAR-2021	6	1	Begin API project	Inheritance & Collections	Java.collections.1: Convert array-based data structures into LinkedList structures	Completely digest Liang Chapter 22 & attempt at least one exercise and one

Course	SP21 Est.	Wk.	Sess.	Session description	Resources	Learning objectives	Out-of-class work
					project design; software engineering techniques ↗ API Inheritance project  LIANG9 Textbook: Chapter 22: Lists, stacks, etc. 	Java.collections.2: Implement all major methods on LinkedList class	mini-project from the suggested list for Chapter 22
CIT-130	THY 11-MAR-2021		2		 LIANG9 Textbook: Chapter 22: Lists, stacks, etc. 		
CIT-130	TUE 19-MAR-2021	7	1		Inheritance & Collection: Map-based data structures  Mission Impossible maps  LIANG9 Textbook: Chapter 23: Sets and maps 	7.L.1: 7.L.2:	
CIT-130	THU 18-MAR-2021		2	Sharing inheritance & Collection projects	 LIANG9 Textbook: Chapter 23: Sets and maps 		
CIT-130	TUE 23-MAR-2020	8	1				

Course	SP21 Est.	Wk.	Sess.	Session description	Resources	Learning objectives	Out-of-class work
CIT-130	THU 25-MAR-2021		2		<p>GUIs with Swing</p> <ul style="list-style-type: none">  Movie GUIs  SP20 Work Tracking Spreadsheet <p>Design Notes</p> <ul style="list-style-type: none"> The Swing chapters in Liang9 are 12 (Basics), 13 (Graphics), 16 (Events), 17(Advanced components) If you have not thoroughly digested chapters 12 and 16, you'll have a hard time programming a custom GUI Layout managers are described in Section 12.5 You can respond to mouse or key events with listeners, too. See Liang9 section 16.8 (Mouse Events) and 16.10 (Key Events) Using inner classes for listeners will be the most versatile (Liang9 16.4) If you want to draw custom shapes (squares, lines, ovals), see Liang9 Chapter 13: Graphics 		
CIT-130	TUE 30-MAR-2020	-	-	Spring break: No Class		<p>10.L.1:</p> <p>10.L.2:</p>	
CIT-130	THU 1-APR-2021		2	No Class		<p>CCAC.130.LO.2: Apply Java language elements to create Swing GUI components with event handling</p>	
CIT-130	TUE 6-APR-2021	9	1		<p>Design patterns: Model-View-controller structures</p> <ul style="list-style-type: none">  Plane crash simulation MVC example  Formative (1992) paper on Model-View-Controller by Steve Burbeck 		

Course	SP21 Est.	Wk.	Sess.	Session description	Resources	Learning objectives	Out-of-class work
CIT-130	THU 8-APR-2021		2		<p>(PDF)</p> <p> Student-generated MVC examples</p> <p> archive</p>		
CIT-130	TUE 13-APR-2021	10	1		<p>GUI & Inheritance project workshop</p> <p> AWT GUI Intro packet</p> <p> archive</p>	11.L.1: 11.L.2:	
CIT-130	THU 15-APR-2021		2		<p> archive</p>		
CIT-130	TUE 20-APR-2021	11	1		<p>GUI & Inheritance project workshop</p> <p> Simulating secret agent missions</p> <p> LIANG9 Textbook: Chapter 12: GUI basics</p>	12.L.1: 12.L.2:	
CIT-130	THU 22-APR-2021		2		<p> LIANG9 Textbook: Chapter 16: Event-driven programming</p> <p> LIANG9 Textbook: Chapter 17: GUI Components</p> <p> archive</p>		
CIT-130	TUE 27-APR-2021	12	1		<p>Exceptional term projects: design and workshop time</p> <p></p> <p> archive</p>	13.L.1: 13.L.2:	
CIT-130	THU 29-APR-2021		2	<p>Screencast of Git Workflow co-creation</p> <p> Git repo creation and pushing to remote</p>			
CIT-130	TUE 4-MAY-2021	13	1		<p>Exceptional term projects: design and workshop time</p> <p></p>	13.L.1: 13.L.2:	

Course	SP21 Est.	Wk.	Sess.	Session description	Resources	Learning objectives	Out-of-class work
CIT-130	THU 6-MAY-2021		2	Screencast of Git Workflow co-creation  Git repo creation and pushing to remote	 archive		
CIT-130	THU 13-MAY-2021 8:00am!	14	1	* Bring fully-baked projects to share.	Sharing term projects and final checkout  Course planning survey  Final session checklist  archive	14.L.1:	

Page created in 2020 by Eric Xander Darsow and all non-linked content can be freely reproduced without any permission or attribution according to the [site's content use agreement](#). Any links to other content is governed by each page's respective usage rights context.