Course	SP19 Est.	Wk.	Sess.	Session description	Resources	Learning objectives	Out-of-class work
CIT-130	WED 17-APR-19			-			
CIT-130	MON 22-APR-19	10	1		GUI & Inheritance project workshop AWT GUI Intro packet LIANG9 Textbook: Chapter 12: GUI basics	12.L.1: 12.L.2:	
CIT-130	WED 24-APR-19		2	1. Course planning s	LIANG9 Textbook: Chapter 16: Event-driven programming LIANG9 Textbook: Chapter 17: GUI Components		
CIT-130	MON 29-APR-19	- 13	1		Exception al term projects:	13.L.1:	
CIT-130	WED 1-MAY-19		113	2		ē	201.2.
CIT-130	WED 8-MAY-19	14	1	* Bring fully-baked projects to share. * Same time and place as normal Wednesday class	Sharing term projects and final checkout Course planning survey Final session checklist	14.L.1:	

CIT-244: 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.

18-FEB-19

Course	SP19 Est.	Wk.	Sess.	Session description	Module links	Language objectives	Out-of-class work
CIT-244		1	1		String manipulation and array review 1. Introduction to object-oriented design	CCAC.244.LO.1: Apply Java language elements to use string(sic) processing techniques in a program CCAC.244.LO.2: Apply Java language	
						dimension arrays of primitives and	

Course	SP19 Est.	Wk.	Sess.	Session description	Module links	objects. APply Java language elements to	Out-of-class work
CIT-244	WED 4-SEP-19		2		 Exploring past project code from last term Digging into password strength checking Week 1 Module 	program LIANG9 Textbook: Chapter 6: Arrays Chapter 9: Strings	
CIT-244	MON 9-SEP-19		1		Inheritance revisited: Teasing apart use cases for plain inheritance, abstract methods, and interfaces	2.L.1: 2.L.2: LIANG9 Textbook: Chapter 15: 15.1 - 15.8	
CIT-244	WED 11-SEP-19	2	2		2.L.1: 2.L.2:		
CIT-244	MON 16-SEP-19		1		Exploring constructors and interfaces with a Comparable Computer object Week 3: Abstract classes & interfaces Exercise 1:Group code-along of an Integer array which has a natural	3.L.1: 3.L.2: LIANG9 Textbook: Chapter 11: Inheritance and polymorphism Chapter 15: Abstract classes and interfaces	
CIT-244	WED 18-SEP-19	3	2		ordering and can be sorted by Arrays.sort(Object[] o) Exercise 2:Creating the Computer class and a four-argument constructor. Populating an array with Computers. Execise 3: Implement Comparable inside Computer and test with Arrays.sort(). Exercise 4: Abstract classes - Add a child		
CIT-244	MON 23-SEP-19	4	1		Inheritance Practice: Modeling computer timelines and file I/O Study this document used by the CIT-115 students to create the computer history	Write to and from files Create a data encoding scheme for the data in files that works with your program's inheritance scheme	

Course	SP19 Est.	Wk.	Sess	. Session description	Module links	Language objectives	Out-of-class work
					timeline in the hall. Your job is to model the timeline components in Java such that the data is stored in a File and can be retrieved and re-created as the timeline evolves.		
CIT-244	WED 25-SEP-19	-	2		LIANG9: Chapter 11 - Inheritance LIANG9: Chapter 15 - Abstract classes LIANG9: Chapter 14.10-14.13 - File i/c A File I/O Project specs		
CIT-244	MON 30-SEP-19	5	1	Creating class diagrams for Timeline project	Data store API project design and workshop time Connecting Java applications	Write to and from files Create a data encoding scheme for the data in files that works with your program's inheritance scheme	
					 and the file system: Introducing file I/O 1. Install the EasyUML diagram plugin in NetBeans 		
					 Create a new project of type UML Create an empty class in some other project and then click and drag it into your EasyUML 		
					 4. With one class inside the UML project, right click that class and select "easyUML generate class diagram" to create a new diagram 		
					5. Tweak and refine your UML diagram using the options in the pallette for tools		
					 You can generate the Java from your diagram by selecting any class diagram over in your projects tree and selecting "easyUML generate code". You'll specify the project in which you'd like easyUML to dump the 		

Course	SP19 Est.	Wk.	Sess.	Session description	Module links	Language objectives	Out-of-class work
CIT-244	WED 2-OCT-19		2	Implement file I/O with text-based UI for timeline project	classes it generates. (It will place them all in the default package for that project. You'll want to them move those class files into their appropriate named package) A File I/O Project specs LIANG9: Chapter 11 - Inheritance LIANG9: Chapter 15 - Abstract classes LIANG9: Chapter 14.10-14.13 - File i/o		
CIT-244	MON 7-OCT-19	6	1	DUE AT BEG OF CLASS: Text-based UI for timeline project with reading and writing from files for persistence Refactoring to align to the MVC framework	Implementing the MVC framework	6.L.1: 6.L.2:	
CIT-244	WED 9-OCT-19		2	Building new functionality with minimal changes: All Hail the MVC design framework			
CIT-244	MON 14-OCT-19	7	1	Migration to GUIs from our text-based interface	Migration to GUIs 랴 Oracle's Master Swing Tutorial	7.L.1: 7.L.2:	
CIT-244	WED 16-OCT-19	2	2	Continued GUI migration and event handling	Uracle's Swing example index LIANG9 Textbook: chapter 12 GUI Basics		
CIT-244	MON 21-OCT-19	0	1	Inner class worksheet and review of Listener methods	Peer-testing the GUI and creating feature requests	8.L.1: 8.L.2:	
CIT-244	WED 23-OCT-19	0	2	Continued GUI building for Timeline project	Prepare for CIT-115 students testing your program on Wednesday, 20 March		

Course	SP19 Est.	Wk.	Sess	Session description	Module-links	Language-objectives	Out-of-class work
CIT-244	MON 28-OCT-19		1	OF CLASS: Working GUI that takes in timeline data, writes to a file, and reads file data back in, creating an organized timeline During class we will prep the sharing of the programs with CIT-115, so please be ready to package and share.	 Preping for sharing Please complete the following steps for Monday, 1 APR at 8:00 am (when CIT-115 meets) 1. Complete your GUI to a sharable state (no obvious bugs or silly stuff dangling all over the place) 2. Push your code to your github repo 3. Make an entry in our upload log so we can find your code 	9.L.1: 9.L.2:	
CIT-244	WED 30-OCT-19	9	2	Review client feedback on GUI applications in CIT- 115	 4. Create a markdown file called readme.md in the same directory as your code and include the following content. You can use this great markdown guide to help you write the markdown. Headers I Image I Link I Code example with explanation I review question for the 115 student to write a response to Step-by-step on how to run your program from your git hub (include how to clone your repo, and how to open your project, and which class to run) 		

Course	SP19 Est.	Wk.	Sess	Session description	Module links	Language objectives	Out-of-class work
CIT-244	MON 4-NOV-19	10	1	CIT-115 students Group coding of Merge sort	Algorithm development: Sorting! AZ Sorting project Small-group exploration of sorting algorithms 1. Bubble sort 2. Merge sort 3. Quick cort	10.L.1: 10.L.2:	
CIT-244	WED 6-NOV-19		2	Introduce sorting comparison project and divide into groups	 3. Quick sort 4. Heap sort (binary tree) 5. Bucket sort Conting visualization Conting Visualization Conting Visualization 		
CIT-244	MON 11-NOV-19	11	1	Sorting metrics continued	 Sorting A² Sorting project ☑ Sorting visualization ☑ LIANG9 Textbook: Chapter 25 Project wrap-up TODO 1. Write javadoc comments for each method in both of your classes using the javadoc doc as your guide 2. Push your code up to your github repository. Create a small readme.md for documenting what the code does 3. Make an entry in our upload log so we can find your code 	11.L.1: 11.L.2:	

Course	SP19 Est.	Wk.	Sess.	Session description	Module links	Language objectives	Out-of-class work
CIT-244	WED 13-NOV-19		2		4. Clotte a peer sheps and test their sorting algorithms using your test class and its various test methods. Write a note card evaluating the correctness and efficiency and beauty of your peers' code. Show your peer and your instructor your note card.		
CIT-244	MON 18-NOV-19	12	1		 Sort algorithm testing & git Finalize sorting algorithm class (see project link below) Create a git branch for just your sorting alogorithms Push your finalized work to remote repo Clone peer's repo to your system Compare test results using your own and others client methods Refactor peer's code and push to 		
CIT-244	WED 20-NOV-19		2	Course planning s	 Your own remote Create a pull request on the original author's repo and merge changes in a new branch Merge in objects from a pull request to one's own rep Sorting project Git Cheat Sheet by Atlassian LIANG9 Textbook: Chapter 25, Sorting CIT-244 Final project specs 	3	
CIT-244	MON 25-NOV-19		-	-			