

CS 2100 - Spring 2024 - Schedule

WK	Day #	Day	Date	Topic	Lab Topic (Mon)	HW Due W at 11:59pm	Quiz Topic
1	1	W	01/17/24	Welcome; Course Introduction; Course Policies			
	2	F	01/19/24	Hello World; Primitive Data Types			
2	3	M	01/22/24	Control Structures	Installing IDE, Hello World		
	4	W	01/24/24	Using Objects, References, Methods, APIs			
	5	F	01/26/24	Writing Methods, Pass-by-Ref, main() method testing			
3	6	M	01/29/24	Arrays	Arrays		
	7	W	01/31/24	Classes, State Behavior, UML, Get/Set, Constructors		Basic Java	
	8	F	02/02/24	Class Aggregation, toString()			Syllabus Quiz Due!
4	9	M	02/05/24	Unit Testing, TDD	Testing		
	10	W	02/07/24	Class Hierarchies, Object class, equals() vs ==		Grade Calculator	
	11	F	02/09/24	Inheritance, abstraction, ADTs			Quiz 1A
5	12	M	02/12/24	Polymorphism, abstract classes	Quiz 1B		Lect 1 - 9
	13	W	02/14/24	Interfaces, What is a List		Basketball	
	14	F	02/16/24	Comparable and compareTo			
6	15	M	02/19/24	Collections Framework, ArrayList, Lists	ArrayList		
	16	W	02/21/24	Vectors, Generics		Blackjack	
	17	F	02/23/24	LinkedLists & Iterators			Quiz 2A
7	18	M	02/26/24	Stacks & Queues and Applications	Quiz 2B		Lect 10 - 15
	19	W	02/28/24	Debugging in Java		Vector	
	20	F	03/01/24	Exception Handling			
No Classes, Spring Break (March 4 - 8)							
8	21	M	03/11/24	Big-Oh, Big-Omega, Big-Theta	Debugging		
	22	W	03/13/24	Intro to Algorithms		Linked List/Queue	
	23	F	03/15/24	Recursion			
9	24	M	03/18/24	Introduction to Trees	Recursion		
	25	W	03/20/24	Tree Traversals		Big Oh w/ analysis	
	26	F	03/22/24	BST Structure, Find, Insert			Quiz3A
10	27	M	03/25/24	BST FindMin/Max, Remove, and Runtime Analysis	Quiz 3B		Lect 16 - 23
	28	W	03/27/24	AVL Trees		Recursion	
	29	F	03/29/24	ADTs So Far / Maps and Sets in Java			
11	30	M	04/01/24	Hash Tables + Separate Chaining	BST & AVL		
	31	W	04/03/24	Open Addressing + Analysis		BST	
	32	F	04/05/24	Priority Queues + Binary Heap Structure			
12	33	M	04/08/24	Binary Heap Operations (Insert, DeleteMin, findMin)	Hash Tables	AVL	
	34	W	04/10/24	Introduction to Searching and Sorting			
	35	F	04/12/24	Insertion Sort, Lower-Bounds Adjacent Proof			Quiz 4A
13	36	M	04/15/24	Mergesort	Quiz 4B		Lect 24 - 31
	37	W	04/17/24	Quicksort		Hash Tables	
	38	F	04/19/24	Heapsort			
14	39	M	04/22/24	Lower-Bound Proof + Other Sorting Methods	Sorting		
	40	W	04/24/24	Basic Concurrency and Thread Example		Priority Queue	
	41	F	04/26/24	Locks, Deadlocks			Quiz 5A
15	42	M	04/29/24	Course Conclusion/Review (no new material)	Quiz 5B		Lect 32 - 40
		Tu	04/30/24	Last Day of Classes		Sorting	
	(Reading Day)		05/01/24				
		Tu	05/02/24	Final Exam: Up to 4 Quiz retakes			