4/3/25, 3:45 PM Syllabus

Syllabı	IS
Week 1	
Jan 6	Lecture 1: Data Definitions in Java
Jan 7 L	ab 1: Introduction to Eclipse and Simple Data Definitions
Jan 8	Lecture 2: Data Definitions: Unions
Jan 9	Lecture 3: Methods for simple classes
Week 2	<u>) </u>
Jan 13	Lecture 4: Methods for unions
Jan 14	Lab 2: Working with Self-Referential Data
Jan 15	Lecture 5: Methods for self-referential lists
Jan 16	Lecture 6: Accumulator methods Assignment 1 due at 9pm
Week 3	}
Jan 20	Lecture 7: Accumulator methods, continued Assignment 2 (part 1) due at 9pm
Jan 21	Lab 3: Working with Lists and the Image Library Assignment 2, self-eval for part 1 due at 10pm
Jan 22	Lecture 8: Practice Design
Jan 23	Lecture 9: Abstract classes and inheritance Assignment 2 (part 2) due at 9pm

4/3/25, 3:45 PM Syllabus

Week 4

Jan 27	Lecture 10: Customizing constructors for correctness and convenience
	Assignment 3 (part 1) due at 9pm
Jan 28	Lab 4: Working with Abstract Classes, Problem Solving
	Assignment 3, self-eval for part 1 due at 10pm
Jan 29	Lecture 11: Defining sameness for complex data, part 1
Jan 30	Lecture 12: Defining sameness for complex data, part 2
	Assignment 3 (part 2) due at 9pm
Week	5
Feb 3	Lecture 13: Abstracting over behavior
Feb 4	Lab 5: Working with the debugger
Feb 5	Lecture 14: Abstractions over more than one argument
Feb 6	Lecture 15: Abstracting over types
	Assignment 4 due at 9pm
Week	6
Feb 10	Lecture 16: Visitors
Feb 11	Lab 6: Exam review
Feb 12	Lecture 17: Mutation
Feb 13	Exam review
	Exam 1 at 6pm
Week	7
Feb 17	No class: Presidents' Day

4/3/25, 3:45 PM	Syllabus
Feb 18	Lab 7: Higher-order functions
Feb 19	Lecture 18: Mutation inside structures
Feb 20	Lecture 19: Mutation, aliasing and testing Assignment 5 due at 9pm
Week 8	
Feb 24	Lecture 20: Mutable data structures
Feb 25	Lab 8: Working with Cyclic Data
Feb 26	Lecture 21: ArrayLists
Feb 27	Lecture 22: ArrayLists Assignment 6 due at 9pm
Week 9	
March 10	Lecture 23: For-each loops and Counted-for loops
March 11	Lab 9: Working with ArrayLists and Loops
March 12	Lecture 24: While loops
March 13	Lecture 25: Iterator and Iterable Assignment 7 due at 9pm
Week 10	
March 17	Lecture 25: Iterator and Iterable Assignment 8, part 1 due at 9pm
March 18	Lab 10: Iterators and Iterables Assignment 8, self-eval for part 1 due at 10pm
March 19	Lecture 26: Hashing and Equality

4/3/25, 3:45 PM	Syllabus
March 20	Lecture 27: Introduction to Big-O Analysis Assignment 8 due at 9pm
Week 11	-
March 24	Lecture 28: Quicksort and Mergesort
March 25	Lab 11: Working with iterators
March 26	Lecture 29: Priority Queues and Heapsort
March 27	Lecture 30: Breadth-first search and Depth-first search on graphs Assignment 9 part 1 due at 9pm
Week 12	
March 31	Lecture 30: Breadth-first search and Depth-first search on graphs Assignment 9 part 2 due at 9pm
April 1	Lab 12: Exam 2 review
April 2	Exam Review
April 3	Lecture 32: Minimum Spanning Trees Exam 2 at 6pm
Week 13	}
April 7 Le	ecture 31: Dijkstra's Algorithm for single-source shortest paths
April 8	Lab 13
April 9	Lecture 33: Implementing Objects
April 10	Lecture 34 Assignment 10, part 1 due at 9pm

4/3/25, 3:45 PM Syllabus

Week 14

April 14 Wrap-up

April 15 Assignment 10, part 2 due at 9pm