



CS 2110: Object-Oriented Programming and Data Structures

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Schedule

See the [lectures](#) page for a fine-grained list of chapter sections and online readings that contain core material for this course, as well as reminders of post-lecture tasks. Remember: it is best to skim the required reading *before* its associated lecture.

Day	Date	Lecture	Discussion	Work due
Tue	Jan 23	Lecture 1 : Overview, structured programming [slides , code]	Discussion 1 : Introductions [code]	
Wed	Jan 24			
Thu	Jan 25	Lecture 2 : Objects [slides , code]		
Fri	Jan 26			Discussion activity 1
Mon	Jan 29			Q1
Tue	Jan 30	Lecture 3 : Abstraction, encapsulation [slides , code]	Discussion 2 : Object diagrams, arrays [code]	
Wed	Jan 31			A1
Thu	Feb 1	Lecture 4 : Specifications, testing [slides , code]		
Fri	Feb 2			Discussion activity 2
Mon	Feb 5			Q2, add deadline
Tue	Feb 6	Lecture 5 : Interfaces, subtyping [slides , code]	Discussion 3 : Designing and testing classes [code]	
Wed	Feb 7			
Thu	Feb 8	Lecture 6 : Inheritance, dynamic dispatch, equality [slides , code]		Syllabus quiz
Fri	Feb 9			Discussion activity 3
Mon	Feb 12			Q3
Tue	Feb 13	Lecture 7 : Exceptions, I/O [slides , code]	Discussion 4 : Reading and writing files [code]	
Wed	Feb 14			
Thu	Feb 15	Lecture 8 : Bags, Generics		A2
Fri	Feb 16			Discussion activity 4
Mon	Feb 19			Q4
Tue	Feb 20	Lecture 9 : Linked structures	Discussion 5 : Java collections	
Wed	Feb 21			
Thu	Feb 22	Lecture 10 : Ordered collections		
Fri	Feb 23			Discussion activity 5
Feb 24–27		February break		
Wed	Feb 28			
Thu	Feb 29	Lecture 11 : Efficiency		
Fri	Mar 1			

Mon	Mar 4		Q5
Tue	Mar 5	Lecture 12 : Recursion	Discussion 6 : Prelim 1 review
Wed	Mar 6		A3
Thu	Mar 7	Lecture 13 : Trees I	Prelim 1
Fri	Mar 8		
Mon	Mar 11		Q6
Tue	Mar 12	Lecture 14 : Trees II	Discussion 7 : TBD
Wed	Mar 13		
Thu	Mar 14	Lecture 15 : Loop invariants	
Fri	Mar 15		Discussion activity 7
Mon	Mar 18		Q7, drop deadline
Tue	Mar 19	Lecture 16 : Sorting	Discussion 8 : Loop invariants
Wed	Mar 20		
Thu	Mar 21	Lecture 17 : Hash tables	
Fri	Mar 22		Discussion activity 8
Sun	Mar 24		A4
Mon	Mar 25		Q8
Tue	Mar 26	Lecture 18 : Graphical user interfaces	Discussion 9 : Hash tables
Wed	Mar 27		
Thu	Mar 28	Lecture 19 : Event-driven programming	
Fri	Mar 29		Discussion activity 9
Mar 30–April 7 Spring break			
Mon	Apr 8		
Tue	Apr 9	Lecture 20 : Concurrency	Discussion 10 : TBD
Wed	Apr 10		
Thu	Apr 11	Lecture 21 : Synchronization	
Fri	Apr 12		Discussion activity 10
Mon	Apr 15		Q9
Tue	Apr 16	Lecture 22 : Graphs	Discussion 11 : Prelim 2 review
Wed	Apr 17		A5
Thu	Apr 18	Lecture 23 : Graph traversals	Prelim 2
Fri	Apr 19		Discussion activity 11
Mon	Apr 22		Q10
Tue	Apr 23	Lecture 24 : Shortest paths	Discussion 12 : Graph traversals
Wed	Apr 24		
Thu	Apr 25	Lecture 25 : Heaps	
Fri	Apr 26		Discussion activity 12
Mon	Apr 29		Q11
Tue	Apr 30	Lecture 26: Assessment	Discussion 13 : Heaps, A6
Wed	May 1		
Thu	May 2	Lecture 27: Software engineering	
Fri	May 3		Discussion activity 13
Mon	May 6		Q12
Tue	May 7	Lecture 28: The Java ecosystem	A6

TBD

Final exam
