## CS 106A Syllabus (subject to change)

Monday	Wednesday	Friday
September 24	26	28
Welcome to CS106A Administrivia Meet Karel the Robot	Programming with Karel Control structures in Karel	Problem-solving in Karel Program decomposition The idea of an algorithm
	Read: Karel, Chapters 1-3	Read: Karel, Chapters 4-6
October 1	3	5
Introduction to Java Classes and objects The Program class hierarchy	Variables, values, and types Arithmetic expressions	Control statements Boolean expressions
		Read: Chapter 4
Read: Java, Chapters 1-2	Read: Chapter 3	Due: Assignment #1
8	10	12
Methods Using parameters	Pseudorandom numbers The RandomGenerator class	Stylistic expectations Engineering for reuse Using javadoc
Read: Chapter 5	Read: Chapter 6	
15	17	19
The acm. graphics package The collage graphics model	More graphics Event driven programming	Character data The Java <b>string</b> class
Read: Chapter 9.1-9.3 Due: Assignment #2	Read: Chapter 9.4 Chapter 10.1–10.4	Read: Chapter 8.1-8.4
22	24	26
String manipulation Problem-solving with strings	Objects and memory More on parameter passing	File processing Exception handling
Read: Chapter 8.5	Read: Chapter 7 Due: Assignment #3	Read: Chapter 12.4

Monday		Wednesday		Friday
29		31		November 2
Debugging strategies		Arrays in Java		Belated midterm
		Read: Chapter 11.1-11.5		recovery day (No class)
			EI 11.1-11.3	(No class)
Tuesday, O				
5	7.00-0.30pi	n: Midterm		9
		,	ons fromawark	Swing interactors
Arrays (continued) The ArrayList class		Java collections framework The HashMap class		The JComponent hierarchy
The Hillay 225 Chass		Iterators		Action listeners
Doods Chanton 11 ( 11 0		Object-oriented design		
Read: Chapter 11.6-11.8  Due: Assignment #4		Read: Chapter 13		Read: Chapter 10.5–10.6
12				16
Graphical us	Graphical user interfaces		data structures	Sorting and searching
Interactors		Data-driven programs		Algorithmic analysis
<b>Read: Chapter 10.7–10.8</b>		Due: Assignment #5		<b>Read: Chapter 12.1-12.3</b>
19		21		23
Thanksgiving recess		Thanksgiving recess		Thanksgiving recess
(No class)		(No class)		(No class)
Be happy to be on break		Prepare to eat a lot		Recover from over-eating
26		28		30
		Additional topics		Standard Java
Programming in the large Software engineering		Additional topics		The main method
Programmi				
		Due: Assignment #6		
December 3		5		7
Life after CS106A (is there any?)		Review for Final Exam		Dead Day: our token
				attempt at Dead Week
				(No class lecture; sections meet as usual)
			Due: Assignment #7	
		1		Duc. Assignment #1

Final Examination: Thursday, December 13th, 12:15pm to 3:15pm