## CS 106A Syllabus (subject to change at any time by the management)

Monday	Wednesday	Friday	
September 25	27	29	
Welcome to CS106A	Programming with Karel	Problem-solving in Karel	
Administrivia	Control structures in Karel	Program decomposition	
Meet Karel the Robot		The idea of an algorithm	
	Read: Karel, Chapters 1-3	Read: Karel, Chapters 4-6	
October 2	4	6	
Introduction to Java	Variables, values, and types	Control statements	
Classes and objects	Arithmetic expressions	Boolean expressions	
The Program class hierarchy			
		Read: Chapter 4	
Read: Java, Chapters 1-2	Read: Chapter 3	<b>Due: Assignment #1</b>	
9	11	13	
Methods	More parameters	Creating classes	
Using parameters	Pseudorandom numbers	Stylistic expectations	
	The RandomGenerator class	Using javadoc	
Read: Chapter 5	Read: Chapter 6		
16	18	20	
The acm.graphics package	More graphics	Character data	
The collage graphics model	Event driven programming	The Java string class	
Read: Chapter 9.1-9.3	Read: Chapter 9.4		
Due: Assignment #2	Chapter 10.1–10.4	Read: Chapter 8.1-8.4	
23	25	27	
String manipulation	Objects and memory	File processing	
Problem-solving with strings	More on parameter passing	Exception handling	
	D. I. Ch. 4		
Read: Chapter 8.5	Read: Chapter 7 Due: Assignment #3	Read: Chapter 12.4	
Meau. Chaptel 6.5	Duc. Assignment #3	Meau. Chaptel 12.4	

Monday	Wednesday		Friday	
30	November 1		3	
Arrays and ArrayList	Arrays and ArrayList (continued)		Midterm recovery day (No class)	
<b>Read: Chapter 11.1-11.8</b>	Thursday, No 7:00-9:00pn			,
6	8		10	
Debugging strategies	Java collections framework The HashMap class Iterators Object-oriented design		Swing interactors The JComponent hierarchy Action listeners	
Due: Assignment #4	Read: Chapter 13		<b>Read: Chapter 10.5–10.6</b>	
13	15		17	
Graphical user interfaces Interactors	-	nt listeners ture design	Sorting and searching Algorithmic analysis	
Read: Chapter 10.7-10.8	Due: Assignment #5		<b>Read: Chapter 12.1-12.3</b>	
20	22 24			
Thanksgiving recess (No class)	_	ving recess class)	Thanksgiving recess (No class)	
Be happy to be on break	Prepare to	eat a lot	Recover from over-eating	
27	29		December 1	
Programming in the large Software engineering		networks all topics	Standard Java The main method	
	Due: Assignn	nent #6		
4	6		8	
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 (No late days on Assign. #7)	

Final Examination: Monday, December 11th, 8:30am to 11:30am