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

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	More parameters Pseudorandom numbers The RandomGenerator class	Creating classes Stylistic expectations 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 string 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
D 1 Cl 4 0 7	Read: Chapter 7	D. J. Cl
Read: Chapter 8.5	Due: Assignment #3	Read: Chapter 12.4

Monday	Wednesday	Friday
29	31	November 2
Arrays and ArrayList	Arrays and ArrayList (continued)	Midterm recovery day (No class)
Read: Chapter 11.1-11.8		
	October 30	
•	m: Midterm	
5	7	9
Debugging strategies	Java collections framework The наshмар class Iterators Object-oriented design	Swing interactors The JComponent hierarchy Action listeners
Due: Assignment #4	Read: Chapter 13	Read: Chapter 10.5–10.6
12	14	16
Graphical user interfaces Interactors	Component listeners Data structure design	Sorting and searching Algorithmic analysis
Read: Chapter 10.7–10.8	Due: Assignment #5	Read: Chapter 12.1-12.3
19	21	23
Thanksgiving recess (No class)	Thanksgiving recess (No class)	Thanksgiving recess (No class)
Be happy to be on break	Enjoy the break	Realize break is over soon
26	28	30
Programming in the large Software engineering	Social networks Additional topics	Standard Java The main method
	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 (No late days on Assign. #7)

Final Examination: Monday, December 10th, 8:30am to 11:30am