CS 106A Calendar

Monday	Wednesday	Friday
January 4	6	8
Administration CS and the Honor Code Meet Karel the Robot	Simple Karel programs Extending the Karel class The concept of inheritance 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
11	13	15
Programming by example Classes and objects The Program hierarchy Simple graphical objects	Variables and values Arithmetic expressions Common idioms	Control statements Boolean data Simple animations
Read: Java, Chapters 1 and 2	Read: Chapter 3	Read: Chapter 4 Due: HW #1 (Karel)
18	20	22
Martin Luther King, Jr. Day Optional film: Dr. King's 1963 speech	Methods The role of parameters	Objects and classes Constructors Inheritance
"I Have A Dream"	Read: Chapter 5 Due: Karel contest	Read: Chapter 6 Due: HW #2 (Simple Java)
25	27	29
The acm. graphics package Responding to mouse events The Java listener model	Graphical structures GPolygon and GCompound Creating compound objects	Character data Using Java's string class
Read: Sections 9.1-9.2 Sections 10.1-10.3	Read: Section 9.3-9.4	Read: Sections 8.1-8.4
February 1	3	5
String manipulation Problem-solving with strings	Cryptography Overview of Assignment #4	The ArrayList class The HashMap class
Read: Section 8.5	Due: HW #3 (Breakout)	Read: Draft chapter handout

Monday	Wednesday	Friday
February 8	10	12
Debugging strategies	Data representation	Arrays
Tuesday,	m exam February 9 or 3:00 p.m.	
Due: Graphics contest	Read: Chapter 7	Read: Section 11.1-11.4
15	17	19
Presidents' Day	Multidimensional arrays Pixel arrays	Swing interactors The Jcomponent hierarchy Action listeners
(no class)	Read: Sections 11.6-11.7	
22	Due: HW #4 (Cryptography) 24	Read: Sections 10.5-10.7
Using data files	Java collection classes Iterators	Large-scale data structures Data-driven programs
Read: Section 12.4	Read: Chapter 13	Due: HW #5 (Imageshop)
29	March 2	4
Overview of Adventure!	Sorting and searching Algorithmic analysis	Layout managers Designing GUIs
Read: Adventure handout	Read: Sections 12.1-12.3	Read: Sections 10.5-10.8
7	9	11
Looking ahead: Recursion Concurrency Programming patterns Read: Chapter 14	Frontiers of computing (optional) Due: HW #6 (Adventure) Due: Adventure contest	Review Session Sunday, March 13 7:00–9:00 P.M.
Final Exam Monday, March 14 8:30–11:30 A.M.	Due: Auventure contest	