**Exam Format**

* It will be like a long test
* Organized by topic
* Short answer / True-false / Long answer
* Programming questions: you choose
* Design questions: you choose
* Exam is 3 hours, but test is designed to be finish-able in 2 hours by most students (not just the fastest students) – so you have plenty of time

**Topics**

* Variables/Constants
* Drawing memory
* Writing algorithms
* Math in Java
* Making decisions
  + If
  + switch
* Repetition
  + For
  + While
  + Do-while
* Flowcharts
* Boundary values/conditions
* Applets
* Reading from a file, writing to a file
* Reading user input
* Verifying that input is valid (i.e. an integer if you asked for an integer)
* Scope
* Methods
* Classes
  + Using classes
  + Creating classes
  + Static
  + Data Members
  + Designing a solution using classes
* Arrays
* Searching arrays
* Sorting arrays
* Breadth:
  + Intro to computing
  + Human Computer Interaction
  + Binary Numbers & Information
  + Computer hardware
  + Artificial Intelligence
  + Ethics

**How to Study**

* Find a group to study with
* Re-try assignments without looking at solution first
* Try book questions (some answers come with the book)
* Try MyProgrammingLab questions that weren’t assigned
* Go through lecture notes
* Can you fill in the missing algorithms or code in the incomplete notes from GitHub?

**Resources**

* Exams/quizzes
  + gives you the general question format
* The textbook
  + Watch book videonotes
  + Text provides clarifications and more information on any topic you aren’t sure about
* Your completed lecture notes
* MyProgrammingLab
* Panopto!
  + Re-watch almost any lecture
* Professor!
  + I’ll be around
* Fellow students!

