

CSCI 161 – Final Exam Review

General Notes for Final Examination:

- **No** multiple-choice
- **No** fill-in-the-blank
- Short answer and coding questions
- Partial credit awarded
- No more than five pages
- 125 points

Material

Everything from the first two exams PLUS

- File Processing
 - Concept of a File
 - FileNotFoundException – what is its purpose?
 - Using a Scanner to read information
 - **Lab 9: Diver Score**
- Arrays
 - Declaring an array
 - Initialization
 - Indexing
 - Index vs. Element
 - Arrays class (copyOf, sort)
 - Various uses (tallying, store information of unknown size, etc)
 - **Lab 10: MUTunes**
- Classes
 - What is an abstraction
 - What is encapsulation
 - Fields and member functions
 - State vs. behavior
 - Know how to write and use a simple class
 - **Lab 11: MUTunes (Object)**
- Recursion
 - Base case
 - Recursive problem solving
 - Tracing of Recursive methods
 - Implementing recursive strategies
 - **Lab 12: Recursion**
- Miscellaneous
 - For-each loop

You will be writing code on this exam.