

CSCI 162 Exam 1 Study Guide – Chapters 1 through 3.

This study guide is provided for your review. Please come prepared to the exam knowing the material and able to do the types of problems reviewed in this guide.

- 1) So far in the book and the lecture notes you have been exposed to at least 20 different terms you must know the definitions of. These terms will not be listed for you. Study, read, review.
- 2) Know the Phases of Software Development and be able to describe them.
- 3) Know the parts of a Java class and be able to describe them.
- 4) Be able to read a JavaDoc specification and in particular a proper Java class method tombstone in order to understand what a method should do (params, pre and postconditions, throws list, return value, notes).
- 5) Be able to read a small Java class that provides an ADT and be able to answer questions about the class does. how, etc.
- 6) Be very familiar with the Information Hiding and Collection Class examples from Chapters 2 and 3 (Throttle, Location, Bag, Sequence), know what they do and how they do it.
- 7) Be able to follow the state of a class (how its instance variables change over time) when various mutator methods are called (e.g. what happens to data in the Bag ADT when add, removing, in some series with specific input).
- 8) Be able to describe unit testing, its merits and examples of good tests.