**CS 1302 – Final Exam – Expectations**

**General Information**

If your test average (Tests 1-5) is below 95%, the final is mandatory and counts 20% of your final grade.

The final is optional if your test average (Tests 1-5) is 95% or above. If the final is waived, then the weight of the 5 tests changes from 50% to 70%.

For either case, there are HW requirements that are required to earn a final grade of A, B, or C. See the Syllabus for details.

**Academic Honesty**

***Section A Students*** – Exam date: Thursday, May 2, 8-10am.

After you take the exam, it is a violation of academic honesty (see Syllabus for penalties) to discuss (verbal, electronic, *etc.*) the final exam with anyone that is NOT in Section A, until 5pm Friday. You will write and sign a pledge that you will adhere to this.

***Section***

***B Students*** – Exam date: Friday, May 3, 2:45-4:45pm

It is a violation of academic honesty (see Syllabus for penalties) to discuss (verbal, electronic, *etc.*) the final exam with anyone in Section A, until 5pm Friday. You will write and sign a pledge that you will adhere to this.

**Final Exam Composition**

The final exam has 7 questions, all related and described in the table below. An exam handout will provide a written description of 3 classes: a manager class, an abstract class, and a subclass.

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| **Question** | **Chapter** | **Points** | **Description** |
| 1 | Ch 1,2,3,5 | 10 | Draw a class diagram of the entire system. Make sure you have the exact notation for credit. i.e. class associations, abstract classes and methods, visibility, method parameters and return types. |
| 2 | Ch 5, 6 | 15 | Write an abstract class. Throwing an exception will be a part of this as well as overriding *equals.* |
| 3 | Ch 5 | 10 | Write a subclass including a toString that requires String.format. |
| 4 | Ch 5 | 20 | Write an arraylist-based, manager class (e.g. the “1” in 1-many). One method will involve casting. |
| 5 |  | 10 | Written snippets of code to use the manager and other classes. |
| 6 | Ch 7 | 20 | Read a text file, building a 1-many, returning the manager class. See Ch 7, Sec 7.4, Exercise 2 |
| 7 | Ch 9 | 15 | Replace the arraylist in manager class with a map, modify several methods |
|  | **Total** | **100** |  |