

Final Study Guideline Summary:

Review the CSI for the course. All posted notes, readings, chapters, class and lab discussions, labs, and projects are open for exam questions, however the major focus will be on the following:

DESIGN PATTERNS

- Get/set**
- Singleton**
- Delegate**
- MVC**
- Observer**
- Simple Factory**
- DAO (Data Access Object)**
- Builder**
- Bean pattern**

also

- Telescoping Constructors**

UML **Class Diagram**
Sequence Diagram
Use Case diagram and writeup

Java Programming Constructs and Java keywords (reserved words)
Exceptions and Exception Handling

GUI

- Listeners and Handler(s)**
- Events**
- Labels**
- Text Fields**
- Frames**
- Strings**
- Panels**
- Sliders**

Data Structures

- Queue(s)**
- ArrayList**
- Generics**
- Merge/Sort**
- Iterable and Iterator use**

OOP

- Inheritance**
- Polymorphism**
- Composition**
- Over-riding**
- Over-loading**

JDBC

- Drivers**
- Driver types**
- Connections**

Statements
Result sets
Meta Data

SERVLETS

Servlet lifecycle
Servlet Thread safety
Servlet Architecture

ALL LABS (1 thru 3)

Project 1

Project 2

Be able to draw and/or interpret and implement (in Java) UML class/sequence diagrams