

## Exam 1 Review

Covering: Chapter's 1, 2, and Chapter 3 section 3.7  
Class Discussion / Slides  
SDLC / Preliminary Investigation / Requirements Determination

Format: 20 multiple choice questions  
10 one word type answer questions (Fill-Ins)  
2 short answer questions  
1 essay type question

*The one-word answer questions are identification/definition type*

*The short answer questions involve defining and describing a key topic. The key aspect is your rationale as to why you chose your answer. One question is based on a significant topic covered thus far and the other question is based on one of the tasks you have worked on in your project thus far.*

*The essay type will involve you describing the steps you would take to solve a particular scenario, I am more interested in the sequence and steps involved than descriptive details. Be specific and include any activities/tasks you may need to undertake to complete the process.*

### Topics:

Systems Design  
What is it

System  
Information system  
Simple Systems Model (I-P-O)

What is Systems Analysis

Define:  
System  
Factors affecting (Internal / External)  
Information System  
Simple Systems Model (I-P-O)  
System Analyst

Feasibility – Types and key questions asked

Functional decomposition

Information Support Circle

Roles and key functions for each role

Identify and describe types of information systems (MIS, EIS, etc..)

Define  
Best used when?

What is SDLC

Identify the stages  
Know key topics within the stages

Statement of scope

Requirements Determination  
Preliminary Investigation

What is structured analysis

RAD, JAD, Object oriented, Agile Methods

What are they, how are they different

Key points in each stage. For example, scrums & sprints in Agile

Modeling

Methodologies vs. techniques vs. tools

Org chart (horizontal and vertical viewpoints)

Activity Diagram

BPM

DFD

Data Flow Diagrams

Why?

Components

Entity

Data Flow

Process

Do's and Don'ts