**HW 1 – CS 4321, Fall 2016**

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| Print Last Name 1 |  | (copy for additional names) |

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| **(Remove this table if working alone)** If working in groups of 2 or more, include this statement and signatures from all members:  *We (names printed above) certify that we watched the videos together and discussed the answers for all questions:*   |  |  |  | | --- | --- | --- | | Signature 1 |  |  |  |  |  |  | | --- | --- | --- | | Signature 2 |  | (copy for additional names) | |

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| **Overview (Remove this table before submitting)**  You will watch the videos for the fifth lesson from the Udacity course, Software Development Process and answer the questions below. **Type your answers, print them, and bring them to class on Wednesday, August 19.**  You may do this in groups of up to 5 **if** you watch the videos together and discuss them.  Directions:   1. Go to <https://www.udacity.com/> 2. Sign Up 3. Choose: Catalog, Georgia Institute of Technology, Software Development Process 4. Choose: Access Course Materials (or maybe Start Free Lesson) 5. Eventually you will see something like this below. Choose *Requirements Engineering*   E:\Data-Classes\CS 4321 - Fall 2015\text\questions\b1.jpg   1. **Type your answers to the questions below, print them, and bring them to class on the date shown on the Schedule.** |

**Questions – Lesson 5: Requirements Engineering (43 minutes)**

Watch videos, type answers (leave questions), print before class and turn-in in class.

1. What is one of the major reasons project fail?
2. What is the definition the author provides for a software intensive system?
3. Software quality is a function of what two things?
4. Briefly mention four reasons that identifying the purpose of software (e.g. identifying the requirements) a hard task?
5. To avoid the lack of completeness in requirements what do analysts sometimes do that often doesn’t help?
6. List three problems that can contribute to stakeholders signing off on requirements without fully understanding them.
7. Requirements engineering acts as a bridge between what two things?
8. A software requirements specification is a bridge between what two worlds? Briefly discuss those two worlds.
9. Briefly discuss the difference between function and non-functional requirements.
10. What is wrong with this requirement: “The system needs to be easy to use”. How could you fix it?
11. Briefly discuss the difference between user and system requirements.
12. Explain how the application domain is a source of requirements.
13. List four issues that add to the complexity of collection requirements.
14. What is meant by the “thin spread of domain knowledge”?
15. Why/how is bias an issue in eliciting requirements?
16. What are the three main steps in analyzing requirements?
17. Why do we prioritize requirements?
18. Describe the requirements engineering process.
19. In the very last video, the author mentions 2 properties of requirements (simple and testable) as well as two properties for the presentation of requirements in an SRS (organized and numbered). What the other properties of requirements that he mentioned in this lesson? (I don’t know why he didn’t mention the here).

**Grading Rubric**

1. **Not stapled (-10)**
2. **Submitted shortly after class (-15)**
3. **Submitted within 24 hours (-40)**
4. **Thoughtful answers (grade is 90-100)**
5. **Just trying to get it done answers (grade is 60-80)**
6. **Half-baked attempt (grade is 0-50)**