**TIM 58: Systems Analysis and Design**

**Winter 2017**

**Team Project Part Four**

***Project Folder Due at the Beginning of Class on Thursday, March 9.***

1. For two of the most important problem-domain functions of the information system generate both a **sequence diagram** and a **communications diagram** (for a total of four diagrams).
2. Identify **two** complex objects from your answers to questions one and two in Part Three of your team project. For each of them, generate a complete **behavioral** **state machine**. An object can be considered complex if the value(s) of its attribute(s) can take numerous distinct possibilities and are important to understanding conditions in the problem domain.

1. Now generate a **CRUDE matrix** for your entire information system.
2. Now balance all of your models. You may need to adjust/update your materials from Team Project Parts Two and Three so all the models balance. If you do, insert the new version of the model, description, or cards in front of the old version wherever it occurs in the notebook. Then write a summary of what changes your team made during the balancing process.
3. Generate a **Package Diagram** based on your Part 2 Question 2 Class Diagram.
4. After section separator #4 in your notebook, insert your sequence and communications diagrams, behavioral state machines, CRUDE matrix, and package diagram. Your updated versions of all the other diagrams and cards should be inserted in front of the originals.
5. Next write your **Executive Summary**. It should include a brief description of the need for the information system, and then summaries of the key insights found in all of your sections (except the Appendices). The Executive summary should be 250-400 words in length.
6. Now create a spreadsheet titled **Individual Contributions to Project**. List as columns all of the work products generated in Parts 2, 3, and 4. Put the names of all the team members as rows. In the cells put **L** for leader, **S** for a substantive contribution, or blank for minor or no contribution. This spreadsheet should be added as an appendix.
7. Your final notebook should contain all previous submitted work, **meeting** **summaries** for **all** client meetings, and all the materials from Part 4 (this week).