CS493 Software Engineering I
Module Design

Date Assigned: Monday, October 24, 2011
Total Points: 15 pts.

Design

You must write a design document for each module of your project. This design document should include the basic design information included in your specification, but elaborated as follows:

- **Module Name:** Give the name of the module.

- **Communications with other modules:** Draw a diagram showing how this module ties in with your other modules.

  - Does this module receive data from other modules? If so, what is this data? What form or data type does this data take?

  - Does this module produce data that is used by other modules? If so, what is this data? What form or data type does this data take?

- **Other data:** Does this module receive or produce data that is not used by other modules, but instead is saved in a permanent form somehow? For example, does it produce a final image or file? If so, what is this data and what form does it take.

- **Classes or files overview:** Show how this module will be broken up into classes or files? This can be a diagram showing the class/file names, and how they communicate with other classes/files.

- **Classes or files details:** Describe the class/file in detail. What will the interface or header file look like? What data will each class/header file have? What functions will each class/file have? When describing the data and functions, as well as giving the name and data type, describe exactly what the function does, and what the data is for. Remember what the design document said about aiming for strong cohesion.

- **Tests:** Describe in detail specific things that you will need to test for. For example, if the module opens a file, you will need to test what happens if the file doesn't exist, cannot be created, or formatted incorrectly. What will your program do in this case? It is also a good idea to include any unit tests that you will be creating.

- **Dates of completion:** Give the date when you expect to complete this module (it could be a day when capstone doesn't meet). Make sure that you add this to your schedule.

Share this document with me **ShereenKhoja@gmail.com** on the day that it is due.