

## INSTRUCTIONS FOR PROJECTS

Your project will be a short paper (say 5-10 pages) on one of the applications at the end of each chapter or some other application of your choice and approved by me. This paper is to be turned in at the latest by Friday May 8, 2009 at 5pm, but you can turn it in whenever you want before that.

A project consists of:

1. **Proposal** – You will need a project statement that describes the intended research you will be conducting. Each proposed project will be divided into tasks. These tasks are simply the breaking down of your project into smaller pieces.
2. **Division of Labor** – Take tasks and subdivide them into subtasks with an associated completion date. Thus, a division of labor is an ordered list of subtasks (it will be sequential since you typically do one thing at a time) with associated dates by when they will be completed.
3. **Methods and Materials** – What will you need to accomplish your task (source materials, computer, software, ... typically just the reading materials)?
4. **Annotated Bibliography** – For all source materials (this include what you discover or uncover on the web) you consult, please write up a one paragraph description of what you read.
5. **Software** – If you have associated software, then you need to have the following:
  - a. **Code** - the actual computer implementation of the project. Attention must be paid to efficiency, readability, and portability.
  - b. **Input** – the way information is passed to the software must be transparent and easily usable by the client.
  - c. **Execution** - the algorithm as run must correctly perform what it was designed to do.
  - d. **Output** - relevant, clear display of solution(s) such as tables, graphs, images, reports/lists.
  - e. **Ease** – ease of use.
  - f. **Documentation** – an in-line and hardcopy of the documentation on how to use the software needs to be written. Moreover, help files must be part of the software