

Guidelines for Homework Assignments

1. General

- You can use either your handwriting or a documentation preparation software for your homework assignments. If you use your own handwriting, it has to be easily readable by the instructor to avoid loss of possible credits.
- Read problems carefully, thoroughly, and answer all the questions.

2. Analytic Part

- For problems with theoretical proof, please be self-contained as much as possible; give enough details to justify your process.
- When you are asked to prove something, you can not just provide some example(s). You need to prove for general cases. But if you are asked to disapprove something, then you just need to give a counter example.
- When you are asked to compute something, you are asked to simulate the operations in a computer. You need to follow the steps of the algorithm even if you can get the results easily using other approaches. The real purpose for such problems is to understand the numerical methods rather than the correct answers.
- Think a problem over before you start. Some problems may be much easier than you thought.

3. Programming part

Writing a computer code and making it run on a computer are not enough. You also need to present and validate your results clearly. Below is a suggested format for you to use:

- Description of the problem if necessary.
- Description of the algorithms if necessary.
- Selected results, plots, tables (do not turn in just all the outputs). Use *subplot* or other tools to put several figures together or on the same page. You should also label (title, xlabel, ylabel, legend etc.) all your plots. Give captions to all tables and figures.
- Analysis of your results if necessary.

4. Code Submission

To save a tree, you are asked to submit your *compute code(s)* through wolfware.

You can go to

<http://wolfware.ncsu.edu/help/>

for help. However, your plots and analysis should be submitted as part of homework.