

## MATLAB PROJECTS INSTRUCTIONS, SPRING 2012

MATH 215

The purpose of these MATLAB projects is for you to learn how linear algebra is used in applications, as well as to get familiar with MATLAB.

You will work in groups, each group consisting of **two** or **three** students. The members of each group will work together and turn in **one** report for the two group projects. The grade for the report will be the grade for each member of the group.

Each group should select **two** projects from the list. You can choose to do, say Project 2A and Project 1B, or Project 1A and Project 5, etc., but your two projects must be chosen from different topics, that is, you are **not** allowed to choose Projects 1A and 1B, or Projects 2A and 2B, as your two projects.

You should divide among yourselves into groups, designate a corresponding member of the group who will email me by **Febr. 21 (Tuesday)** the choice of your group's two projects, as well as the list of the members in the group. This person will also turn in the report of the group by the due date.

Your assignment is to study the descriptions of the projects you choose, and then use MATLAB to complete the projects.

For full credit, your report should be **typed** and should contain

- a description of your steps to complete the project;
- your answers for the project, together with necessary justifications;
- the MATLAB commands that you use to solve the problem, together with MATLAB response (copy them from MATLAB window and paste into your report). Do **not** turn in the incorrect or unnecessary commands.

Your report should have two parts, one for each project. Answers to problems without MATLAB commands and/or responses will get **no** credit.

Print out a **hard copy** of your report and turn in to me by **April 17 (Tuesday)** in class. Late submissions and/or handwritten reports will **not** be accepted.

Your MATLAB projects count for a total of **25 pts**.