

## **Differential Equations Project**

### **Proposal**

The differential equations project will be a team project of your own choice, and you need to start thinking about what you will do. Once you decide on a problem, you have to prepare a written proposal (one page) describing your project.

Ideas can be taken from studies in your major, the textbook, or any other source. For example, you may have encountered an application of differential equations in one of your courses and would like to know more about it. The only firm requirements are that the project involve an application of differential equations and be a team effort. If you find yourself short on ideas, I have lots of possibilities. Whatever you decide to do, please discuss your idea with me first.

While writing your proposal, keep the following points and guidelines in mind:

- Use standard English and write in complete sentences.
- Include background information as appropriate to describe your problem. Assume the reader understands general mathematics and science, but is otherwise unfamiliar with the specific application you plan to investigate. Thus, your proposal should be (reasonably) self-contained.
- After describing your problem, give specific details about what you plan to do and how you plan to go about it.
- References **must** be included at the end of your proposal.
- The proposal should be limited to one page. A second page may be used for the references.

### **Project Deadlines**

Written proposal: Wednesday, November 1  
Revised proposal: Wednesday, November 8  
Oral report: Last Week of Classes

**Note:** November 1 is the primary deadline. The November 8 deadline applies only to unsatisfactory proposals; it should not be needed if you follow the above guidelines (especially talking to me first). Missing the primary deadline will result in a one-letter-grade reduction on the project. Missing the second deadline will result in a failing grade on the project.