TERM PROJECT

Check 1: 23FEB16
Check 2: 11MAR16
Check 3: 12APR16

Final Draft: Due 02MAY16 IN CLASS
NO LATE PAPERS WILL BE ACCEPTED.

Create and solve a problem that comes from the material covered in SP211. The problem can include material from any part of this semester’s syllabus and that it should be solvable by a typical student in this class.

Your project will be graded on creativity, research, difficulty and solution.

Research/Creativity
I will be looking for problems that make good physical sense. In other words, your problems should be plausible. You will probably need to research your problem by consulting with books, journals, the internet or other non-living sources. You may also consult with living sources. You may even choose to conduct your own experiments. Be sure to explain your research. You must include a list of all your references and how they contributed to your problem. Be sure your problem is well motivated. Why would anyone care about the question you have asked?

Solution
Be sure your solution is explained, complete and correct. It is important that you end your project by commenting on the meaning of your solution.

Difficulty
I am not looking for a simple textbook problem. You may find that much of your effort is put into doing the research and developing a problem that is solvable. On the other hand, the solution may be a challenge.
Start early. This is a TERM project not a one night project. Ask me for help. You can come to me at any point in your thought process. Have fun. The best projects come from your interests. I have past projects that you may consult to get an idea of how I grade the projects.

Your group is a work group, providing feedback and constructive criticism. Work with your group to brain storm ideas or test your own ideas. As a group, come up with a plan of milestones and dates.

Three times throughout the semester, we will spend about an hour of class time checking on each person’s progress. These are formal opportunities to discuss your progress both with me and with your group. Our comments at these times are formative with the intention of helping you to stay on task and improve your project. Here is a rough idea of what should be accomplished in time for each check up:

**Check 1:** Topic and question ready.
**Check 2:** Research and preliminary calculations made.
**Check 3:** Complete first draft, including typed up calculations, figures, tables, references.

Once the projects are turned in I will use the following rubric to grade each individual project.

<table>
<thead>
<tr>
<th>Brief Title</th>
<th>Name___________________</th>
<th>Overall Grade___________________</th>
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Term Project Grades

1. Creativity: A B C D F
2. Research: A B C D F
3. Difficulty: A B C D F
4. Solution: A B C D F

GENERAL COMMENTS:

In addition you will also receive the average of your group’s grade.