

Group Project Assignment

Honors Calculus I Fall 2014

[Calculus is] the outcome of a dramatic intellectual struggle which has lasted for twenty-five hundred years.

-Richard Courant

Project Description: Each group will be assigned a project that requires the use of course concepts to solve a problem, explain some phenomena, or derive related mathematical methods. The project topics will be provided along with a set of tasks to be completed. Each group will submit

- (1) a technical report (on Mon. 11/10/14), and
- (2) a 15-20 minute presentation in class (during the week of 11/10/14).

In addition, each individual will submit a peer assessment form for each of his/her group members. The project will be graded according to the rubric available on the project page:
http://educate.spsu.edu/lritter/MATH2253H_Group_Project.htm

The Presentation: Each group will give a presentation on its project in class during the week of November 10. The presentation should be given by all three group members and should include

- a title
- an introduction describing the details of the project
- a demonstration of any results, examples, answers, obtained
- a conclusion
- references where appropriate

Use of presentation technology is expected (powerpoint, keynote, beamer, etc.). Slides may be combined with use of a chalk/white board.

The Technical Report: Each group will create a technical written paper (one paper per group). The paper should be in the form of a technical (e.g. journal article) paper with

- a brief abstract,
- an introduction section that includes an indication of how the rest of the paper is structured
- appropriate sections for results or findings

- captions for any tables or figures that are included (with source citations if a figure or table is not the original work of the authors)
- sections appropriate for results, answers, findings
- a conclusion
- a references/works cited section

Citation Format: References should be listed in alphabetical order by principle author surname. To cite a reference, include the reference number in square brackets to the right of the end of the citation. For example

In vitro studies of LDL modification indicate that the process occurs over time periods of minutes [2, 16] whereas MRCT occurs over hours and days [23] (again in vitro).

The notations [2, 16] and [23] appearing in this sentence indicate to the reader that the first result cited can be found in references 2 and 16, and that the second result cited can be found in reference 23. Below you will find the requested format for the references at the end of your paper. The format is given for articles, books, and for websites/web-based documents.

Format for referencing an article:

Author(s), (year) title. *journal* **volume/issue** pages.

For example:

[1] Stocker, R. and Keaney, J., (2004) Role of Oxidative Modifications in Atherosclerosis. *Physiol. Rev.* **84** 1381-1478.

Format for referencing a book:

Author(s), (year) *title*, publisher, location.

For example:

[2] Brandrup J. and Immergut E. H., (1989) *Polymer Handbook*, Wiley, New York.

Format for referencing a website:

Author(s)(if known), (date accessed) *Webpage title*, Organization/publisher(in any). URL

For example:

[3] Landsberger, J. (accessed Aug. 25, 2010) *Study Guides and Strategies*, University of XYZ.
<http://www.studygs.net/citation.htm> .

If the website author is not known, just write Web Contributor.

A few important points regarding plagiarism:

1. Use proper citation. For example,

Ritter showed that the sun could rise in the north [1].

Again, the citation "[1]" indicates that this information was taken from the first reference that will appear in your list of references at the end of your paper.

2. Any tables or figures should be numbered and be accompanied by a caption. If you use a figure or table created by someone else, you **must** credit that party. Not doing so is plagiarism!
3. If you are in doubt about something, please ask me.

The written report is due at the beginning of class on Monday Nov.10, 2014. You may turn it in early, but I won't accept it late!