M235 (Calculus Lab I) Fall, 2002

INSTRUCTOR: Dr. Hundley
OFFICE: Olin 234
OFFICE HOURS: 10AM M,T,Th
Feel free to schedule an alternative time to meet if you can't make these hours. Otherwise, if my door is open, feel free to come in. You can also email me anytime.
OFFICE PHONE: 527-5151
EMAIL: hundledr@whitman.edu
WWW: `http://people.whitman.edu/~hundledr` (Note- this is an updated address this semester)

1. **Goals:** You might see this course as having the following components. I have listed my goals for you after each.

   (a) Mathematics Component: Be able to solve (working in small groups) problems with a little more depth than in our normal Calc courses. The mathematics content will be drawn from Calculus I, Calculus II, and perhaps some from Calculus III- thus, the co-requisite of Calculus III.

   (b) Software component: We will be using Maple, LaTeX and an editor of your choosing in a Linux environment. You will use Maple to do mathematical computation and graphing, and will use a text editor to write up your results in LaTeX format.

   (c) Writing component: We want you to be able to create clear, logical write ups of mathematical problems. This will include setting the problem and notation up, explaining your solution, and drawing conclusions. We will discuss this aspect more in detail in class.

   Our overall goal for you is to give you some exposure as to what it is like in mathematics research, to formally give some training in using the computer to solve mathematics problems symbolically and numerically, and to emphasize writing in the sciences.

2. **Checklist:** In order to help emphasize the elements of a good technical report, we will use a standardized checklist. This checklist will be used to grade the report and to aid in possible revisions. Please consult this checklist while you are preparing your reports- it may change slightly from lab to lab as different writing elements are emphasized.

3. **Revisions:** In some cases, labs may go through a revision (this will be announced when a lab is first assigned). If you choose to revise a lab, the final grade will be weighted 70% from the revised version, 30% from the original.

4. **Grading:** Your grade will be based on the written reports you turn in. There will be no exams in this course. You will turn in 5 reports overall. The first two labs are worth 30% of the overall grade (15% each), the next lab will be worth 20%, and the final two labs are worth 25% each. Grading will be based on a standard 90-80-70-60 scale, with $+/-$ being reserved for borderline cases.

5. **Group Work:** You will do your assignments collaboratively with a partner. You will choose a partner at the beginning of each lab, and you may not switch partners until that lab is completed. **It is your responsibility to make sure that your partner contributes fairly to the project.**

6. **Plagarism:** Your write ups should be completely your own. You may consult only your Calculus book for assistance, if required. If you do consult your calc book, be sure to cite the exact Chapter, Section and page in your report (either parenthetically or with a footnote). Violation of this policy will result in nasty things happening (as discussed in your college handbook).

7. **Late Work:** Late reports will NOT be accepted, so pay close attention to the due dates!

8. **Other items:**

   (a) If you have a learning disability that will require special arrangements for you, I would be happy to do that- You will need to inform me as soon as possible if this is the case.

   (b) Absences: I will not take attendance, but you are expected to come to class and work with your partner. If you need to miss class or an appointment with your partner, please do them (and me!) the courtesy of an email.

HOMEWORK/LAB SCHEDULE

Subject to Change

On the DUE DATES, the date followed by (T) is for the Tuesday class, and (W) is for the Wednesday class.

Week	Dates	Topic	% of Grade, DUE DATE
1	SEP 3-6	Intro to LaTeX	
2	SEP 9-13	Lab 1	15%
3	SEP 16-20	Intro to Maple	
4	SEP 23-27	Lab 2	15%
5	SEP 30-OCT 4	Lab 2	
6	OCT 7-11	Lab 3	20%
7	OCT 16-18	(Lab 3- Short Week)	
8	OCT 21-25	Lab 3	Oct 24(T), 25(W)
9	OCT 28-NOV 1	Lab 4	25%
10	NOV 4-8	Lab 4	First Version: NOV 7(T),8(W)
11	NOV 11-15	Lab 4	Revision: NOV 14(T),15(W)
12	NOV 18-22	Lab 5	25%
13	DEC 2-6	Lab 5	First Version: Dec 5(T), 6(W)
14	DEC 9-13	Lab 5	Revision: Dec 12(T), 13(W)