

M235 (Calculus Lab) Spring 2012

INSTRUCTOR: Dr. Hundley

OFFICE: Olin 234

OFFICE HOURS: M, Th, F at 11AM

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

COURSE WEBSITE:

<http://people.whitman.edu/~hundledr/courses/M235.html>

All course handouts will be available on our website, so you might want to bookmark it.

1. **Goals:** The main goals of this course are to (1) learn mathematics software (Maple and hopefully some Matlab), especially in the context of solving specific problems, and (2) learn how to write mathematics using LaTeX (which includes typesetting commands), (3) Be able to give a short oral presentation- More on this last item later.
2. **Software:** We will be using Maple for our mathematics work and LaTeX (pronounced "Lay-Tech", different than rubber) for the word processing. See our class website about getting a copy of LaTeX for your home computer (it's free!).
3. **Grading:** Your grade will be based on the written reports you turn in, and an assessment of your oral presentation.

Your grade will be based on: Exercises (30% overall), Writing (50% overall), and the oral presentation (20% overall). Grading will be done on a standard scale:

$A = 92 - 100$ $A- = 90 - 91$ $B+ = 88 - 89$ $B = 82 - 87$ $B- = 80 - 81$
 $C+ = 78 - 79$ $C = 72 - 78$ $C- = 70 - 71$ $D = 60 - 69$ $F = 59$ and below

4. **Group Work:** You will do your assignments collaboratively with a partner. Lab partners will be assigned randomly 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.

File Sharing: Be sure that each partner in the group has access to files that we created in previous class sessions- An easy way to share is to use either Netfiles or email the final product(s) to each member of the group.

5. **Plagiarism:** Your write ups should be completely your own- when you use other external sources, be sure and cite them (there are old calc

books on the bookshelf you may use as needed)- You may use a footnote citation in abbreviated form¹. In particular, you should NOT try to look up solutions to the exercises or lab write ups on the internet.

6. **Late Work:** Late work will be accepted, but a penalty will be assigned: 5% for the first day late, 10% for the second day late, 15% for the third day late, and so on. Since most of the submissions are electronic, these count weekends and holidays.

7. **Other items:**

If you have a learning disability that will require special arrangements for you, please let me know as soon as possible.

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.

8. **Lab Schedule (Subject to Change)**

Week	Date (Wed/Thu)	Topic	Due
1	Jan 18/19	Introduction	
2	Jan 25/26	LaTeX Exercise Set	Due Feb 03
3	Feb 01/02	Maple Exercise Set	Due Feb 09
4	Feb 08/09	Lab 1: A Stack of Books	Due Feb 17
5	Feb 15/16	Lab 2: Theater Seating	Due Feb 25
6	Feb 22/24	Lab 3: Parametric Curves	Due Mar 02
7	Feb 29/Mar 01	Lab 4: Ants on a Doughnut	
8	Mar 07/08	Lab 4, cont.	Due before Break
		Spring Break	
9	Mar 28/29	Intro to Matlab (Exercise)	Due Apr 06
10	Apr 04/05	Matlab Lab 1	Due Apr 13
11	Apr 11/12	Matlab Lab 2	Due Apr 20
12	Apr 18/19	Intro to Beamer	
13	Apr 25/26	Work on Beamer Project	
14	May 02/03	Orals	Due May 04

Note that the due dates are typically a week after we have covered the information in class- This gives you some extra time to ask me questions if necessary. Usually, you should try to turn in the old lab/exercise before we start a new lab/exercise.

9. **Turning in materials:** We'll try using CLEo's drop box- Information will be given in class as we go, but typically you'll use your web browser to upload the files to me.

¹ *Calculus*, James Stewart, 2001, pg. XX