

Math 98/198: L^AT_EX for Math and Science

Spring 2011

Details

Section1: Mondays 5-7pm, B3A Evans
Faculty Sponsor: Ken Ribet
Facilitators: Christian Blanco and Brandon Eltiste
Website: latex.berkeley.edu

Course Description

This class is an introduction to L^AT_EX for uses in math, science and engineering. Our first goal is to help you typeset your homework and scholarly articles. After this we will introduce you to different types of documents and packages such as resumes, articles, thesis, and others. We will end with a discussion of graphics and how to share L^AT_EX files with others. We hope to give you enough familiarity with L^AT_EX so that you have the skills to type most technical documents in L^AT_EX .

There will be one hour of lecture each week. Following the lecture, there will be an optional lab hour where you can stay and practice what you learned in class or do homework. This is a great way for you to work out any problems that you have with what was taught in lecture.

Required Materials

The only required text for the class is the reader, which is available on the course website. Copies of lecture slides will also be available on the website. One is not required to own or bring a laptop to class, although many students find it convenient.

Grading

Option A
Assignment: 90
Attendance: 20
No Final

Option B
Assignment: 60
Attendance: 20
Final: 30

There will be 11 homework assignments to be graded. In addition there will be a final held during the last class period. You will have the choice of doing all 9 out of 11 homework assignments and skipping the final, or only completing 6 out of the 11, and taking the final.

Check criteria:

1. You have done what was asked in the handout
2. Your code typesets without any errors (windows users take note, texniccenter does not readily show errors. it is possible to get a PDF output and errors at the same time.)
3. You have turned in the homework on time. We usually don't accept late work unless you have informed us of an emergency/urgent matter ahead of time.

You will submit HW via e-mail including a .tex file of your work along with any relevant .sty files required for it to compile. HW is due a week after it is due. You may be asked to compile your work in class at the discretion of your grader.

Homework Submission

Homework assignments will be due a week from the day it was assigned, on the day of your home section. Suggested solutions to each homework will be posted the week after, and will include selections from students' submissions. If you would not like for your homework to be considered for inclusion in our answer keys, please email christianblanco@berkeley.edu.

Academic Policy

We will be requiring that all of you turn in your source code for the homework assignments. Please don't copy other people's math homework and use it for this class. We will catch you if you cheat and there is really no reason to because the homework doesn't take long and helps you learn the material better.

Topics Covered (Subject to Change)

- Week 1 Software installation
- Week 2 L^AT_EX typesetting basics
- Week 3 L^AT_EX math typesetting
- Week 4 Tables and matrices
- Week 5 Graphics
- Week 6 Packages
- Week 7 User-definables
- Week 8 Document classes
- Week 9 textscbibT_EX
- Week 10 beamer
- Week 11 flash cars / CV
- Week 12 Creating your own packages