

MATH 3283W T_EX Project Overview

T_EX is a typesetting language that is particularly good at displaying mathematical symbols. L^AT_EX is a markup language for creating documents that uses T_EX for formatting.

As soon as possible, familiarize yourself with a T_EX compiler that will convert plain text files that you create into .pdf documents. For example, you might try ShareL^AT_EX (sharelatex.com), an example of a free, online T_EX compiler.

You might prefer to install a free T_EX compiler on your own computer, for example

- MacT_EX (tug.org/mactex/) or
- T_EXShop (pages.uoregon.edu/koch/texshop/) for MacOS, or
- MiK_T_EX (miktex.org) for Windows.

T_EX compilers are also installed on computers in CSE Labs. If you are not a student in CSE, you can gain access to these labs because you are a student in this class.

In the coming days, we will post a template that you can mimic for creating your own documents – it will be in the form of a .tex file you can input into your compiler. And we will spend some time in section in the next two weeks discussing how to use T_EX and its various compilers.

You and your TA will discuss the content of the T_EX project along with specific due dates. Typically, students choose a problem from the textbook that has not appeared on a quiz or test. Your TA must approve your choice. You and your TA might agree on a problem from a different source.

Your project consists of submitting to your TA a .tex file and a compiled .pdf document that contains your solution to the problem. Your TA must be able to compile the .tex file and create a .pdf file independently. Your finished document need not be longer than one page. The due date will be set by your TA.

Twenty points are possible on the T_EX project, broken down as follows with five points possible per part:

- .tex file compiles correctly with no errors
- mathematical validity of solution overall
- correct use of mathematical symbols
- quality of the mathematical writing, as described in the writing score rubric at at the course webpage.

T_EX project rewrite

Your TA will respond to your T_EX project solution with suggestions for improvement and/or additional follow-up questions. You will have one week to respond with changes and additions and submit a new .tex file and .pdf file.

Twenty points are possible on the rewrite, broken down as follows with five points possible per part:

- .tex file compiles correctly with no errors
- mathematical validity of the new content, in particular whether it addresses the TA's suggestions and questions
- correct use of mathematical symbols in the new content
- quality of the mathematical writing in the new content, as described in the writing score rubric