

SJSU CME Theses in L^AT_EX 2_ε
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Masters theses written in L^AT_EX can look better than those written in WYSIWYG applications like Microsoft Word or LibreOffice. More importantly, the writer can focus on content and spend less time with formatting, particularly with long documents. People comfortable with basic programming would most easily be able to learn L^AT_EX and use it to write a thesis. It is similar to HTML in terms of grammar and difficulty.

This folder contains template files that can be used to write an M.S. thesis for the SJSU CME department using L^AT_EX. Before using these documents, the user should first practice L^AT_EX and BibT_EX on their own. If the user can figure out how to compile the .tex files and how to use .bst and .bib files, the rest is easy. I use texmaker for most editing and compiling. For managing bibliography files I use Mendeley and JabRef 2. **No guarantee or warranty of any kind is implied for any of these files, use at your own discretion.**

The most important files here are:

1. cme.thesis.tex, the main file where the thesis is actually written. This is the file that gets compiled to make the final pdf, using the L^AT_EX IDE of your choice.
2. cme.thesis.bst, the bibliographic style file that has been developed for journal articles and, to some degree, books. However, it has not been checked for other media like electronic resources or collections.
3. cme.thesis.cls, the class file that is a modified version of a thesis style file that appears to have been initially made at the University of Colorado (by John Weiss et al.) and then modified by James Kittock and then Tim Hsu for the SJSU math department to meet GS&R guidelines. That version was then further modified to meet the CME guidelines (please see the cmeguidelines.pdf). Ideally, the student will not have to mess with the class file.

The following changes have been made to meet CME guidelines:

1. moved page numbering to center of footer
2. removed boldface from all headings as per CME guidelines
3. changed equation formatting, ex: “Equation 1” instead of just “(1)”
4. changed all numbering to be sequential and exclude using chapter numbers, ex: “Table 3” instead of “Table 2-1”
5. made custom bibliographic style (cme.thesis.bst) file to conform to CME guidelines (only tested for journal articles and books). Underline function looks a bit dated, but works
6. changed the heading “Bibliography” to “References”- assuming no bibliography (list of un-cited references) will be used
7. integrated a List of Symbols package (symlist.sty) (Copyright 2008 Kevin W. Hamlen, may be distributed and/or modified under the conditions of the L^AT_EX Project Public License)

As far as how to use L^AT_EX and BibT_EX goes, there are many good references. Popular books are by Lamport, Mittelbach & Goossens, and Gratzner.