The **ucdavisthesis** class*

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1 Introduction

The ucdavisthesis class is a LaTeX 2_ε class that allows you to create a dissertation or thesis which conforms to UC Davis formatting requirements as of 2016. The output document has the necessary preliminary pages, margins, page number placement, etc. This class also provides most of the macros available in the `report` class, allowing for chapters, sections, etc. Please check the Graduate Studies web page (http://gradstudies.ucdavis.edu/students/filing.html) for any changes or updates.

This manual is typeset according to the conventions of the LaTeX DOCSTRIP utility which enables the automatic extraction of the LaTeX macro source files.

2 Usage

To create a dissertation or thesis which conforms to UC Davis requirements load the class with

> `\documentclass[`⟨*class-options*⟩`]{ucdavisthesis}`

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*This document corresponds to ucdavisthesis v1.3, dated 2016/04/23.

at the beginning of your your LATEX 2$_\varepsilon$ source file. The ⟨*class-options*⟩ are entered as a comma separated list (no spaces). They are described in detail in Section 3. The other commands (macros) necessary to put together a complete document are explained in Section 4.

Please look through the `ucdavisthesis\_example\_main.tex` file and its subfiles for the proper macro order and helpful suggestions for formatting and organization of your thesis.

3   Class Options

The ucdavisthesis class is in itself an alteration of the standard `report` class, thus it keeps most of its class options except those options that would make the document non-conforming and aren't likely to be used for drafts (e.g., `twocolumn`, `notitlepage` and `a4paper`). If you find yourself wanting `report` features that are not available, please let me know.

The possible options for the ucdavisthesis class are (default values are in angle brackets):

`MA  MS  ME  `⟨`PhD`⟩` DEngr`
> This option formats the title pages to conform to the requirements for a particular degree.

`single   `⟨`double`⟩
> Sets the document line spacing. NOTE: single line spacing is non-conforming to the UCD format. However, even when using `double` spacing, environments like footnotes, captions and references are kept to single spacing. If there are problems with a particular environment becoming double spaced when using certain packages (e.g., natbib or chapterbib), see the `\singlespacing` command.

`twoside `⟨*false*⟩
> Two-sided printing (for a duplex printer). Adjusts margins and placement of page numbers and headers appropriately. NOTE: two-sided printing is non-conforming to the UCD Format.

`openright   `⟨`openany`⟩
> This option only makes sense when using the `twoside` option. `openright` forces chapters to begin on odd (right-hand) pages only. The default, `openany` will start a chapter on the next page, whether it is even or odd.

`draft  draftcls  `⟨`final`⟩
> ucdavisthesis provides two draft modes as well as the normal final mode. The `draft` and `draftcls` options provide additional information in the running header, including the text "DRAFT", the time and date, etc. Additionally, `draft` puts every package used in the document into draft mode (disabling rendering of figures for most graphics packages), while `draftcls` confines the draft mode behavior to just the class file.

nofigureslist ⟨*false*⟩
> Suppress printing of the List of Figures.

notableslist ⟨*false*⟩
> Suppress printing of the List of Tables.

nohyphenatetitles   ⟨hyphenatetitles⟩
> Choose whether to hyphenate section (and subsection...) titles.

10pt 11pt ⟨12pt⟩ 13pt
> Font size to use in the body of document (i.e., normalsize). Appropriate font sizes are chosen for the usual array of text size macros (e.g., \small, \large, \Large, etc.). Any of the four size options are acceptable according to the UCD Format.

4   Class Commands

This class file provides many commands that must be used to correctly format your dissertation or thesis. Some are self explanatory, others more obscure. I try to describe them all below.

4.1   Preliminary Page Commands

Use the following commands to produce all of the preliminary pages (e.g., title page, abstract, etc.). Theses should be used before the \makeintropages{} command is issued.

\title   This command sets the dissertation/thesis title. Formatting commands are allowed in the argument (e.g., \textit{}). The title must always be specified.

> \title{⟨*title*⟩}

\author   This command sets the dissertation/thesis author. Only one author is allowed. The author must always be specified.

> \author{⟨*author's name*⟩}

\authordegrees   Specify the author's previous degrees on the TITLE PAGE. Separate entries with the end line command \\ . The author's degrees must always be specified.

> \authordegrees{⟨*list of degrees*⟩}

For example:

> \authordegrees{B.S. (University of California, Davis) 1978\\
>   M.S. (University of California, Berkeley) 1980}

\officialmajor   Set the official major name (in the degree title). e.g., Electrical and Computer Engineering, Chemistry, Russian, or Entomology. The official name of your major must always be specified.

$$\text{\textbackslash officialmajor}\{\langle major's\ name\rangle\}$$

\graduateprogram	Set the graduate program name. It is only used on the UMI abstract page. The graduate program name may be the same as the official major.

$$\text{\textbackslash graduateprogram}\{\langle program\ name\rangle\}$$

\thesis	Set the document type to `Thesis`, and the degree name to the command's argument. This command is normally not needed, since an `MA` or `MS` option to `\documentclass` will do the same thing in all standard situations.
\dissertation	Set the document type to `Dissertation`, and the degree name to the command's argument. This command is normally not needed, since a `PhD` or `DEngr` option to `\documentclass` will do the same thing in all standard situations.
\degreemonth	Set the month in which the degree will be **conferred**, typically, March, June, September or December. Default is the current month (this may not be correct!).

$$\text{\textbackslash degreemonth}\{\langle month\rangle\}$$

\degreeyear	Set the year in which the degree will be conferred. Default is the current year.

$$\text{\textbackslash degreeyear}\{\langle year\rangle\}$$

\committee	This command will place the committee members' names under the approval lines and accepts up to five committee members. "Chair" appears after the first member's name. Leave any unused member positions blank between the braces. Your committee member names must be specified.

$$\text{\textbackslash committee}\{\langle member\ 1\rangle\}\{\langle member\ 2\rangle\}\{\langle member\ 3\rangle\}\{\langle member\ 4\rangle\}\{\langle member\ 5\rangle\}$$

\copyrightyear	Set the year which appears in the copyright notice. Default is the degree year (see above).

$$\text{\textbackslash copyrightyear}\{\langle year\rangle\}$$

\nocopyright	Don't include a copyright notice at all. No page will be produced in its place. Default behavior is to include a copyright page.

$$\text{\textbackslash nocopyright}$$

\titlesize	Print the document title (on the TITLE and ABSTRACT pages) at a particular size. Default is `\Large` (17-point when using 12pt option). Although any LaTeX type size name will be accepted, the only other non-default value likely to give satisfactory results is `\LARGE` (20-point when using 12pt option).

$$\text{\textbackslash titlesize}\{\langle size\ name\rangle\}$$

\dedication	The argument's text is used as the dedication (in a `\center` environment) on the DEDICATION page. Default is not to have a dedication.

$$\text{\textbackslash dedication}\{\langle text\rangle\}$$

\acknowledgments	The argument's text is used for the ACKNOWLEDGMENTS page. Default is not to have an ACKNOWLEDGMENTS page.

$$\texttt{\textbackslash acknowledgments}\{\langle \textit{text}\rangle\}$$

\abstract	The argument's text is used as the dissertation/thesis abstract. You must include an abstract. There is no limit on length.

$$\texttt{\textbackslash abstract}\{\langle \textit{text}\rangle\}$$

\makeintropages	Generate the introductory pages in the proper sequence. This command is placed just before your first chapter or section.

4.2   UMI Abstract Formatting

This is only used in the final preparation of the dissertation. The UMI abstract is submitted online as plain text. It no longer has a word limit or specific formatting. Therefore, the UMIabstract command is now deprecated.

\UMIabstract	The text in the argument is used as the UMI abstract. Otherwise, it defaults to using the text from \abstract (hence the square brackets). However, the UMI abstract can't exceed 350 words in length. The UMI abstract is separate from the dissertation abstract and should NOT be included as part of the submitted dissertation. Normally this command is called at the end of the main file, just before \end{document}. The command is ignored if twoside is enabled.

$$\texttt{\textbackslash UMIabstract}[\langle \textit{text}\rangle] \Leftarrow \textbf{Note: square brackets}$$

4.3   Text Formatting Commands

These are commands you can use to customize the fonts and font sizes used in the headings. A command is also provided to produce single spacing in certain environments.

\singlespacing	Set the line spacing to single spacing. Usually \singlespacing is required with packages that modify or redefine particular environments (i.e., thebibliography). For example, if using the natbib package, use the command:

$$\texttt{\textbackslash renewcommand}\{\texttt{\textbackslash bibfont}\}\{\texttt{\textbackslash singlespacing}\}$$

The \bibfont command will make the text *within* references single spaced while there will still be double spacing between each reference. This works even if the chapterbib package with the sectionbib option is used.

\chapternamesize	Set the size of the chapter name (i.e, 'Chapter'). Default size is \Huge.
\chapternamefont	Set the font of the chapter name (i.e, 'Chapter'). Default font is \bfseries.
\chaptertitlesize	Set the size of the chapter title. Default size is \huge.
\chaptertitlefont	Set the font of the chapter title. Default font is \bfseries.
\secfontsize	Set the font type and size of the section title. Default is \bfseries\Large.
\subsecfontsize	Set the font type and size of the subsection title. Default is \bfseries\large.
\ssubsecfontsize	Set the font type and size of the subsubsection title. Default is \bfseries\normalsize.

Change History

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Numbers written in italic refer to the page where the corresponding entry is described; numbers underlined refer to the code line of the definition; numbers in roman refer to the code lines where the entry is used.