

# utthesis — University of Texas at Austin Thesis\*

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## Abstract

This is a class for building a UT thesis. It uses standard latex install procedures for a single dtx file. Running luatex on the dtx file will produce all needed files. Running luatex on the dtx file will only produce neccisary files (not documentation).

## 1 Introduction

This is the U.T. Austin Doctoral Dissertation Format.

First, set your graduation year with `\UTyear=Your year`. If you are not going for a Ph.D., you will need to set `\renewcommand{\UTdegree}{Your Degree}` and `\renewcommand{\UTlongdegree}{Full Degree}`.

Then, after starting your document normally, and setting author, etc., use `\UTcopyrightlegend` to make a copyright page. Be sure to put `\frontmatter` before you start making pages, to ensure the pdf page numbers are not duplicated (two page 1's instead of page 1 and page i).

Then, use the `UTCommittee` environment and `\UTaddsupervisor{}`, `\UTaddcosupervisor{}`, and `\UTaddcommittee{}` to add your committee members.

Then, use `\UTtitlepage{Current Degree}{Month}` to make a title page. A dedication can be added with `\UTdedication{}`. All of these commands will correctly suppress but count page numbers.

You should use the `\begin{UTabstract}{supervisor}` environment to create an abstract page with required details. You can add a star to include a publication number blank.

## 2 Usage

### 2.1 Defines

<code>\UTdegree</code>	Redefine <code>\UTdegree</code> to set a new degree. Defaults to Ph.D.
<code>\UTlongdegree</code>	Redefine <code>\UTlongdegree</code> to set a new long degree description. Defaults to

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Doctor of Philosophy.

`\UTyear` This is a counter that holds the current year. Use `\UTyear=1234` to set the year to a different year.

## 2.2 Commands

`\UTcopyrightlegend` Prints out a copyright legend page. Uses `\author` and `\UTyear`

`\UTaddsupervisor` Adds a supervisor.

`\UTaddcosupervisor` Adds a cosupervisor (optional)

`\UTaddcommittee` Adds a committee member `{\langle member \rangle}`.

`\UTtitlepage` Adds a title page, using `\author`, `\title`, etc. You will need to use your current degree for `{\langle olddegree \rangle}`, and your expected graduation month for `{\langle month \rangle}`.

`\UTdedication` Adds a dedication page, with correct centering.

## 2.3 Environments

`UTabstract` This environment is for your abstract. You can pass in an ‘s’ optionally through `[\langle s \rangle]` to add multiple advisors. The manitory argument `{\langle advisor \rangle}` holds the advisor(s) names.

`UTcommittee` This environment holds `\UTaddcommittee` names.

## 3 Implementation

```

1 \RequirePackage{xparse}
2 \RequirePackage{amsmath}
3 \RequirePackage{etoolbox}
4 \RequirePackage{setspace}
5
6 \setlrmarginsandblock{1.25in}{1.25in}{*} % spine, edge
7 \setulmarginsandblock{1.25in}{1.5in}{*} % {\hupperi}{\hloweri}{\hratioi}
8 \setheadfoot{.5in}{.5in} % Headheight, footskip
9 \setheaderspaces{*}{.25in}{*} % headdrop, headsep, ratio
10
11 \checkandfixthelayout
12 \typeoutlayout
13
14 % No headers
15 \pagestyle{plain}
16
17 % Nice "double" spacing (1.5, as allowed)
18 \newcommand\UTSpacing{\OnehalfSpacing}
19 \DeclareOption{double}{\renewcommand\UTSpacing{\DoubleSpacing}}
20 \DeclareOption{single}{\renewcommand\UTSpacing{\SingleSpacing}}
21 \ProcessOptions\relax
22 \UTSpacing
23
24 % Let's default to include section numbers if the author wants them (in document)

```

```

25 \setsecnumdepth{subsubsection}
26
27 % Custom number function that handles A,B,C etc.
28 \def\UTNumToName#1{%
29 \if!\ifnum9<1#1!\fi
30 \NumToName{#1}\else#1\fi}
31
32 % Adding proper numbering for chapters, appendix in table of contents
33 \renewcommand\chapternumberline[1]{%
34   \@chapapp@head\@cftbsnum \UTNumToName{#1}\@cftasnum\afterchapternum}
35 \renewcommand\cftchaptername{\chaptername~}
36 \renewcommand\cftappendixname{\appendixname~}
37
38
39 % Proper table of contents
40 \renewcommand\cftchapterfont{}
41 \renewcommand\cftchapterdotsep{\cftdotsep}
42 \renewcommand\cftchapterleader{\normalfont\cftdotfill{\cftchapterdotsep}}
43 \renewcommand\cftchapterpagefont{}
44
45 % Space between the chapter lines
46 \setlength\cftparskip{2ex}
47 \setlength\cftbeforechapterskip{0em}
48 \setlength\cftbeforesectionskip{0em}
49 \renewcommand\insertchapterspace{}
50
51
52 \cftsetindents{section}{2em}{0em}
53
54 % Default to no number line (Easy to override)
55 \let\thesisnumberline\numberline
56 \renewcommand\numberline[1]{}
57
58
59 % Figure list
60 \let\oldlistoffigures\listoffigures
61 \def\thesislistoffigures{%
62 \clearpage
63 \SingleSpacing
64   \let\numberline\thesisnumberline
65   \oldlistoffigures
66   \renewcommand\numberline[1]{}
67   \UTSpacing
68 }
69 \let\listoffigures\thesislistoffigures
70
71 % Tablelist list
72 \let\oldlistoftables\listoftables
73 \def\thesislistoftables{%
74 \clearpage

```

```

75 \SingleSpacing
76 \let\numberline\thesisnumberline
77 \oldlistoftables
78 \renewcommand{\numberline}[1]{%
79 \UTSpacing
80 }
81 \let\listoftables\thesislistoftables
82
83 % Proper chapters
84 \renewcommand{\afterchapternum}{:~}
85 \renewcommand{\chapnamefont}{\bfseries\Large\centering}
86 \renewcommand{\chaptitelfont}{\chapnamefont}
87 \setlength\beforechapskip{-\baselineskip}
88 \renewcommand{\printchapternum}{\UTNumToName{\thechapter}}
89
90 % Correct numbering style
91 \numberwithin{equation}{chapter}
92 \numberwithin{figure}{chapter}
93 \numberwithin{table}{chapter}
94

```

The following will override the table of contents to supply single spacing / double spacing as required To add section numbers (non-standard), follow the command with a period, ‘.’.

\tableofcontents

```

95 \let\oldtableofcontents\tableofcontents
96 \RenewDocumentCommand \tableofcontents { s t. } {%
97 \clearpage
98 \SingleSpacing
99 \IfBooleanTF #2 {%
100 \let\numberline\thesisnumberline
101 \cftsetindents{section}{1em}{2em}
102 \oldtableofcontents*
103 \cftsetindents{section}{1em}{0em}
104 \renewcommand\numberline[1]{%
105 }{%
106     \renewcommand\numberline[1]{%
107         \oldtableofcontents*
108     }
109     \UTSpacing
110 }
111 %\end{macro}
112 %
113 %\begin{macro}{\UTdegree}
114 %     \begin{macrocode}
115 \newcommand{\UTdegree}{Ph.D.}

```

\UTlongdegree

```

116 \newcommand{\UTlongdegree}{Doctor of Philosophy}

```

```

\UTyear
117 \newcount\UTyear
118 \UTyear=\year

\UTcopyrightlegend
119 \DeclareDocumentCommand{\UTcopyrightlegend}{ }{%
120 \begin{titlingpage*}
121 \begin{vplace}
122 \centering\Large\bfseries
123 Copyright\
124 by\
125 \theauthor\
126 \the\UTyear
127 \end{vplace}
128 \end{titlingpage*}}

\UTaddcommittee
129 \DeclareDocumentCommand{\UTaddcommittee}{ m }{
130 \vskip 3em
131 \hrule
132 \vskip .4em
133 #1
134
135 }

\UTaddcommittee
136 \DeclareDocumentCommand{\UTaddsupervisor}{ m }{
137 \vskip 3em
138 \hrule
139 \vskip .4em
140 #1, Supervisor
141 }

\UTaddcommittee
142 \DeclareDocumentCommand{\UTaddcosupervisor}{ m }{
143 \vskip 3em
144 \hrule
145 \vskip .4em
146 #1, Co-Supervisor
147 }

\UTtitlepage This makes a title page. Spacing was manually made to match guide.
148 \DeclareDocumentCommand{\UTtitlepage}{m m}{
149 \begin{titlingpage*}
150 \begin{vplace}
151 \centering
152 {
153 \bfseries
154 \thetitle

```

```

155 }
156
157 \vskip 1em
158
159 by
160
161 \vskip 1em
162
163 {
164 \bfseries
165 \theauthor, #1
166
167 \vskip 3em
168 Dissertation
169 }
170
171 Presented to the Faculty of the Graduate School of\\
172 The University of Texas at Austin\\
173 in Partial Fulfillment\\
174 of the Requirements\\
175 for the degree of\\
176 {\bfseries \UTlongdegree}
177
178 \vskip 3em
179
180 The University of Texas at Austin\\
181 #2, \the\UTyear
182 \end{vplace}
183 \end{titlingpage*}}

```

**UTabstract** This was modified to match the required abstract guidelines. You could add your supervisor here. An optional [s] argument allows the adding of an s for multiple advisors. adding a star will add a publication line.

```

184 \DeclareDocumentEnvironment{UTabstract}{s O{} m }{ %
185 \begin{center}
186 {\bfseries\thetitle}
187
188 \vskip 2em
189 \IfBooleanTF{#1}{
190 Publication No. \underline{\hspace{3.7cm}}}
191 \vskip 2em
192 }{}
193
194 \theauthor, \UTdegree
195
196 The University of Texas at Austin, \the\UTyear
197
198 \vskip 2em
199
200 Supervisor#2: #3

```

```

201
202 \vskip 2em
203
204 \end{center}
205 \indent
206 }{}

UTcommittee This adds the committee page.
207 \DeclareDocumentEnvironment{UTcommittee}{ }{ %
208 \begin{titlingpage*}
209 \bfseries
210 \begin{center}
211 \begin{SingleSpace}
212 The Dissertation Committee for \theauthor\ certifies that this is the approved version of the :
213 \end{SingleSpace}
214 \vskip 2.5em
215 \large
216 \thetitle
217 \end{center}
218 \vskip 5em
219 \begin{flushright}
220 \begin{minipage}[b]{3in}
221 \begin{flushleft}
222 Committee:
223 }{ %
224 \end{flushleft}
225 \end{minipage}
226 \end{flushright}
227 \end{titlingpage*}}

\UTdedication This adds a dedication page, the argument is printed in the upper center of the
page.
228 \DeclareDocumentCommand{\UTdedication}{m}{%
229 \begin{titlingpage*}
230 \begin{vplace}[0.7]
231 \begin{center}
232 #1
233 \end{center}
234 \end{vplace}
235 \end{titlingpage*}
236 }

```