

The ukydissertation class

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1 User Manual

This class attempts to provide a method of formatting a dissertation to the style guide for the graduate school at the University of Kentucky.

Your L^AT_EX file should begin with a preamble similar to this:

```
\documentclass[endorse]{ukydissertation}
%%[...load your packages...]%%
\usepackage{lipsum}
\usepackage{natbib}
\usepackage[numbered,open,openlevel=0]{bookmark}
\bibliographystyle{plainnat}
```

You must manually load the **bookmark** package and set the options as shown above to get the correct style for the dissertation. This is not done in the class definition because you may need to load other packages before loading **bookmark**.

The **endorse** class option causes signatures to appear in the appropriate blank spaces in front matter of the dissertation. This should be omitted (or replaced with the **noendorse** option) until the final stage of the dissertation approval process.

Next, use these macros define the dissertation document metadata. In addition to the usual **title** and **author** macros, there are macros for your **department**, **college**, thesis **director** (advisor), and the director of graduate studies (**dgs**) for your department. Optionally, you may supply a **date**. This is only required if you do not want to use the L^AT_EX default, which is **\today**.

\title	\title{A \textsf{ukydissertation} Example Document}
\author	\author{Jeffrey Lebowsky}
\department	\department{Slack}
\college	\college{College of Theosophy}
\director	\director{J.R ‘Bob’ Dobbs}
\dgs	\dgs{Constance M. Dobbs}
\date	\date{19 Prairial CCXXIII}

\abstract	In addition to the basic metadata, you must also define an abstract and keywords . The dedication , and acknowledgements pages are optional, and will only be added if you supply content.
\dedication	
\acknowledgements	
\keywords	

```

\abstract{This is a example of the ukydissertation class.
This class for the \LaTeX{} document system \citep{latex}
produces a pdf file conforming to the style guidelines of
the \citet{ukdiss}.}

\keywords{U of Kentucky, dissertation, latex, documentclass, example}
\dedication{Dedicated to the Flying Spagetti Monster.}
\acknowledgements{\lipsum[1-3]}

```

`\makefrontmatter` The first thing in the document environment should be the `\makefrontmatter` macro. This will use the previous definitions to setup the pages prior to the start of the main dissertation material.

```

\begin{document}
\makefrontmatter

```

`\chapter` You then proceed to write your dissertation using the classic L^AT_EX commands.
`\section` The `chapter`, and `section` through `subsubsection` environments have been defined, although a `subsubsection` will not be numbered, appear in the ToC, or be
`\subsection`
`\subsubsection` bookmarked.

```

\chapter{The First Chapter}
\lipsum[4-10]

\begin{figure}
\centering
\framebox[3in][c]{The First Figure}
\caption[A name for the ToC]{A caption for the first figure.}
\label{fig:numberone}
\end{figure}

\section[A Shorter Title for ToC]
{The First Subsection Has A Long Title}

\lipsum[11]
\begin{table}
\caption[A Short Table Title for the ToC]{%
{Tables captions should appear before the beginning of the table.}
\vspace{\baselineskip}\centering
\begin{tabular}{ccc}
\hline
X & Y & Z\\
\hline
1750 & 250 & 56\\
1760 & 218 & 57\\
1770 & 204 & 59\\
\hline
\end{tabular}
\end{table}

```

```
\lipsum[12-15]
```

`\backmatter` The `\backmatter` macro signals the end of the main text. It is similar in effect to L^AT_EX's `\appendix`. It should be placed before any appendices and the `\bibliography`.

```
\backmatter
\chapter{The First Appendix}
\lipsum[16-17]

\section{First Appendix section}
\lipsum[18-22]

\bibliography{example}
```

`\vita` The Vita section is the final section of the dissertation, appearing after the bibliography. Use the `\vita` macro to signal the beginning of this material.

```
\vita
\lipsum[23-25]
```

And finally, end the document environment.

```
\end{document}
```

2 Implementation

2.1 Initial Code

Here we define some switches for use later.

`\if@endorse` Switch indicating if endorsements should be printed in the front matter of the thesis.

```
1 \newif\if@endorse
```

`\if@dedication` Switch indicating if a dedication section has been supplied.

```
2 \newif\if@dedication
3 \@dedicationfalse
```

`\if@acknowledgements` Switch indicating if an acknowledgements section has been supplied.

```
4 \newif\if@acknowledgements
5 \@acknowledgementsfalse
```

`\if@mainmatter` Indicates whether the current location within the main matter or not.

```
6 \newif\if@mainmatter
7 \@mainmatterfalse
```

2.2 Option Declarations

The `endorse/noendorse` options enable/disable the printing of names in the blank spaces available in the front matter.

```
8 \DeclareOption{endorse}{\@endorsetrue}
9 \DeclareOption{noendorse}{\@endorsefalse}
```

The `ukydissertation` class is based on the `LATEX` `report` class on letter paper in a 12pt font.

```
10 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{report}}
11 \ExecuteOptions{noendorse, 12pt, letterpaper}
12 \ProcessOptions
13 \LoadClass{report}
```

Here we load a few packages to help get the page layout and style set up correctly.

```
14 \RequirePackage[hmargin={1.5in,1in},vmargin=1in,foot=0.5in]{geometry}
15 \RequirePackage[nottoc]{tocbibind}
16 \RequirePackage{needspace}
```

2.3 Defining Document Metadata

These macros define the metadata for the dissertation document.

`\college` Use to define the name of the college granting the degree.

```
17 \newcommand{\college}[1]{\renewcommand{\@college}{#1}}
18 \newcommand{\@college}{\@latex@warning@no@line%
19   {No \noexpand\college given} COLLEGE}
```

`\director` Define the name of the committee chair/director (your advisor).

```
20 \newcommand{\director}[1]{\renewcommand{\@director}{#1}}
21 \newcommand{\@director}{\@latex@warning@no@line%
22   {No \noexpand\director given} Advisor}
```

`\dgs` Define the director of graduate studies for your program.

```
23 \newcommand{\dgs}[1]{\renewcommand{\@dgs}{#1}}
24 \newcommand{\@dgs}{\@latex@warning@no@line%
25   {No \noexpand\dgs given} DGS}
```

`\department` The department granting the degree.

```
26 \newcommand{\department}[1]{\renewcommand{\@department}{#1}}
27 \newcommand{\@department}{\@latex@warning@no@line%
28   {No \noexpand\department given} DEPARTMENT}
```

`\keywords` Define five keywords for the thesis.

```
29 \newcommand{\keywords}[1]{\renewcommand{\@keywords}{#1}}
30 \newcommand{\@keywords}{\@latex@warning@no@line%
31   {No \noexpand\keywords given}}
```

`\abstract` Define the dissertation abstract content.

```

32 \renewcommand{\abstract}[1]{\renewcommand{\@abstract{#1}}
33 \newcommand{\@abstract}{\@latex@warning@no@line%
34   {No \noexpand\abstract given}}

```

`\dedication` Define dedication page content. (Optional)

```

35 \newcommand{\dedication}[1]{\@dedicationtrue
36   \newcommand{\@dedication}{#1}}

```

Define acknowledgements page content. (Optional)

`\acknowledgements`

```

37 \newcommand{\acknowledgements}[1]{\@acknowledgementstrue
38   \newcommand{\@acknowledgements}{#1}}

```

2.4 Document Control Macros

`\makefrontmatter` This command replaces the `\maketitle` macro.

```

39 \newcommand\makefrontmatter{%
40   \maketitle \@makeabstract \@makeapproval
41   \if@dedication\@makededication\fi
42   \setcounter{page}{3}
43   \pagestyle{plain}
44   \if@acknowledgements\@makeacknowledgements\fi
45   \pdfbookmark[chapter]{\contentsname}{toc}
46   \tableofcontents \listoftables \listoffigures
47   \clearpage
48   \pagenumbering{arabic} \global\let\thanks\relax
49   \global\let\maketitle\relax \global\let\title\relax
50   \global\let\author\relax \global\let\date\relax
51   \global\let\and\relax \global\let\abstract\relax
52   \global\let\dedication\relax}

```

`\backmatter` This macro replaces the `\appendix` macro.

```

53 \newcommand{\backmatter}{\@mainmatterfalse\appendix}

```

`\vita` This macro begins the vita section of the thesis.

```

54 \newcommand{\vita}{\clearpage\chapter*{Vita}%
55   \addcontentsline{toc}{chapter}{Vita}}

```

2.5 Section header definitions

```

56 \renewcommand{\@makechapterhead}[1]{%
57   {\parindent \z@ \centering \normalfont
58     \ifnum \c@secnumdepth >\m@ne
59       \bfseries \@chapapp\space \thechapter
60       \par\nobreak
61       \vskip 10\p@
62     \fi

```

```

63 \interlinepenalty\@M
64 \bfseries #1\par\nobreak
65 \vskip 20\p@
66 }}
67 \renewcommand{\@makeschapterhead}[1]{%
68 {\parindent \z@ \raggedright
69 \normalfont
70 \interlinepenalty\@M
71 \centering\bfseries #1\par\nobreak
72 \vskip 20\p@
73 }}
74 \renewcommand{\section}{%
75 \@startsection {section}{1}{\z@}%
76 {-3.5ex \@plus -1ex \@minus -.2ex}%
77 {2.3ex \@plus .2ex}%
78 {\normalfont\bfseries}}
79 \renewcommand{\subsection}{%
80 \@startsection{subsection}{2}{\z@}%
81 {-3.25ex \@plus -1ex \@minus -.2ex}%
82 {1.5ex \@plus .2ex}%
83 {\normalfont\bfseries}}
84 \newcommand{\@period}[1]{#1.--- }
85 \renewcommand{\subsubsection}{%
86 \@startsection{subsubsection}{3}{\z@}%
87 {3.25ex \@plus 1ex \@minus .2ex}%
88 {\z@}%
89 {\normalfont\normalsize\itshape\@period}}

```

2.6 Front Matter Layouts

Setup the page layouts for the title, abstract, approval, dedication, acknowledgements, table of contents and list of figures/tables pages.

```

90 \renewcommand\maketitle{%
91 \setcounter{page}{0}
92 \pagestyle{empty}
93 {\let\footnotesize\small
94 \let\footnoterule\relax
95 \let\footnote\thanks
96 \null
97 \bookmark[named=FirstPage,level=-1]{Title Page}
98 \vskip 1.5in%
99 \begin{center}%
100 \parbox[t][1.5in]{\textwidth}%
101 {\centering\MakeUppercase\@title\par}%
102 \par
103 \parbox[t][3\baselineskip]%
104 {0.5\textwidth}{\hrule\vskip\baselineskip%
105 \centering DISSERTATION%
106 \par\vskip\baselineskip\hrule}
107 \vskip\baselineskip%

```

```

108 {A dissertation submitted in partial fulfillment of the \\
109 requirements for the degree of Doctor of Philosophy in the \\
110 \@college\\ at the University of Kentucky\par}%
111 \vskip 2\baselineskip%
112 {By\par\vskip 0.5\baselineskip\@author\par}%
113 \vskip 0.5\baselineskip%
114 {Lexington, Kentucky\par}%
115 \vskip 1em%
116 {Director: Dr. \@director, Professor of \@department\par}%
117 \vskip 0.5\baselineskip%
118 {Lexington, Kentucky\par}%
119 \vfill
120 {Copyright \textcopyright \@author\ \the\year\par}%
121 \vspace*{1.5in}\par
122 \end{center}\par
123 \null}
124 \clearpage
125 \setcounter{footnote}{0}}
126
127 \newcommand\@makeabstract{%
128 \pagestyle{empty}
129 \pagenumbering{Roman}
130 \hypertarget{abstract}{}
131 \bookmark[dest=abstract,level=0]{Abstract}
132 \null\vskip 1.5in
133 \begin{center}%
134 \parbox[t][1in]{\textwidth}{\centering ABSTRACT OF DISSERTATION\par}
135 \MakeUppercase\@title\par
136 \end{center}
137 \@abstract
138 \par\vspace\baselineskip\noindent
139 KEYWORDS: \parbox[t]{0.8\textwidth}{\@keywords}
140 \par\needspace{1.5in}\null\vfill
141 \hfill\parbox[t][1.5in]{0.5\textwidth}{%
142 \if@endorse
143 {\centering\MakeUppercase\@author\par}\vskip 2pt
144 \else\fi
145 \hrule
146 \vskip 2pt
147 Student's Signature\par
148 \vfil
149 \if@endorse
150 {\centering\MakeUppercase\@date\par}\vskip 2pt
151 \else\fi
152 \hrule
153 \vskip 2pt
154 Date\par}
155 \par\null\clearpage}
156
157 \newcommand\@makeapproval{

```

```

158 \pagenumbering{roman}
159 \null\vskip 2in
160 \noindent\parbox[t][1in]{\textwidth}%
161 {\centering\MakeUppercase\@title\par}\par
162 \begin{centering}
163   By
164   \vskip0.5\baselineskip
165   \@author\par
166 \end{centering}
167 \vfill
168 \hfill\parbox[t][3in]{0.5\textwidth}{%
169   \if@endorse
170   {\centering\MakeUppercase\@director\par}\vskip 2pt
171   \else\fi
172   \hrule
173   \vskip 2pt
174   Director of Dissertation\par
175   \vfil
176   \if@endorse
177   {\centering\MakeUppercase\@dgs\par}\vskip 2pt
178   \else\fi
179   \hrule
180   \vskip 2pt
181   Director of Graduate Studies\par
182   \vfil
183   \if@endorse
184   {\centering\MakeUppercase\@date\par}\vskip 2pt
185   \else\fi
186   \hrule
187   \vskip 2pt
188   Date\par}\hskip 1in
189   \par\vfil\clearpage}
190
191
192 \newcommand\@makeacknowledgements{
193   \phantomsection
194   \addcontentsline{toc}{chapter}{Acknowledgements}
195   \null
196   {\centering ACKNOWLEDGEMENTS \par}
197   \vspace{\baselineskip}\noindent
198   \@acknowledgements
199   \par\vfil\clearpage}
200
201 \newcommand\@makededication{%
202   \null\vfil
203   \@dedication
204   \par\vfil
205   \clearpage}
206
207 \renewcommand{\contentsname}{Table of Contents}

```