The mines-thesis class *

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Abstract

This package provides a class for graduate students at Colorado School of Mines to prepare their theses and dissertations.

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1 User's guide

1.1 Installation

1.2 Invocation and options

\documentclass The mines-thesis class is invoked in the standard fashion.

> \documentclass[⟨*options*⟩]{mines-thesis}

There are several options corresponding to the type of the document and its general appearance. They are described below. Generally speaking, the options have key=value forms, for example,

> \documentclass[screen=true, review=false]{mines-thesis}

The default options are letterpaper,10pt. **TODO review? oneside? onecolumn,draft,openany**

1.3 Preprogrammed Formats

\title
\author
\year
\degree
\advisor
\coadvisor
\department
\departmenthead

abstract   The environment abstract must *precede* the \makefrontmatter command. Again, this is different from the standard LaTeX. Putting abstract after \makefrontmatter will trigger an error.

> \begin{abstract}
> *Here goes the abstract...*
> \end{abstract}

\makefrontmatter   The front matter of a thesis includes:

1. Title page (Required)

2. Copyright page

3. Submittal page (Required)

4. Abstract (Required)

5. Table of Contents (Required)

6. Lists (Required if included in thesis)

    (a) List of Figures

     (b) List of Tables

     (c) List of Equations (optional)

     (d) List of Plates

     (e) List of Symbols

7. Acknowledgments

8. Dedication

Invoking

```
\makefrontmatter
```

will generate all components listed above. It can be commentted out until you need the front matter generated.

```
       \chapter
       \section
    \subsection
 \subsubsection
     \paragraph
```

2 Implementation

2.1 Declaration of Options

```
1 \PassOptionsToClass{letterpaper,10pt}{memoir}
2 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{memoir}}
```

2.2 Execution of Options

```
3 \ProcessOptions\relax
```

2.3 Package Loading

```
4 \LoadClass{memoir}
```

2.4 Main Code

2.4.1 Commands to define parameters for the front matter

```
5 \def\year#1{\gdef\@year{#1}}
6 \def\degree#1#2{\gdef\@degreelv{#1}\@degreename{#2}}
7 \def\advisor#1{\gdef\@advisor{#1}}
8 \def\coadvisor#1{\gdef\@coadvisor{#1}}
9 \def\department#1{\gdef\@department{#1}}
10 \def\departmenthead#1{\gdef\@departmenthead{#1}}
```

The following are the initial values for some macros that provide info.

```
11 \gdef\@author{Your Name}
12 \gdef\@title{Title of the Thesis}
13 \gdef\@year{\year}
14 \gdef\@degreelv{Doctor of Philosophy}
15 \gdef\@degreename{Geophysical Engineering}
16 \gdef\@advisor{Dr. Main Advisor}
17 \gdef\@advisor{Dr. Co Advisor}
18 \gdef\@department{Department of Some Name}
19 \gdef\@departmenthead{Dr. Department Head}
```

2.4.2 Front Matter

\maketitlepage The title page is standard. The guidelines require uppercase throughout, so I have forced this wherever necessary.

```
20 \def\maketitlepage{
21 \clearpage
22 \vspace*{\fill}
23 \centering
24 \begin{minipage}{.6\textwidth}
25   \MakeUppercase{\@title}
26 \end{minipage}
27 \vfill % equivalent to \vspace{\fill}
28 by\\
29 \@author
30 \clearpage
31 }
```