

uothesis — A L^AT_EX package for the generation
of theses and dissertations that meet the
requirements established by the University of
Oregon Graduate School*

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1 Introduction

The `uothesis` class file provides support for generating properly formatted documents that comply with the University of Oregon Graduate School style guidelines for the preparation of dissertations and theses. The use of this class does not replace the review process by the Thesis Editor or guarantee the document will pass that review perfectly. Its intention is to simplify the formatting of the document and limit the type of possible corrections to minor fine tuning. This document summarizes the features of the class and provides an example header for the generation of a basic document. This document is NOT intended as a substitute for the University of Oregon Graduate School manual and will not be repeating the specifics of document formatting, as the user is expected to have downloaded, read and understood that manual¹.

1.1 New To This Version (2.5)

There have been a number of changes to this version to deal with a couple of persistent bugs in the code and to make the CV a little easier to write. The changes to the CV are indicated below in the appropriate section² Second, the package `natbib` is now required by the `cls`. Users should add the `\usepackage` command from their header files as shown in the example header later in this document. Customization of the citation formatting can be accomplished through the use of a list of options as described in the `natbib` documentation. The last change is the requiring of the command `\formatbib` to the header file above the bibliography section as demonstrated in the example header later in this document.

¹Thesis and Dissertation Style and Policy Manual (v. Fall 2010)

²Please note that you will have to change your current CV structure to get a clean compile at this point

1.2 New To This Version (2.5.1)

The package `natbib` is still required by the `cls`, but now it is loaded directly, no user input is required to load `\natbib` by itself. Customization of the citation formatting can now be accomplished through the use of the native `natbib` options, as described in the `natbib` documentation, included in the options for the class itself. This change is reflected in the example header in this document. Last, the problem requiring the `\formatbib` command has been corrected and now is not needed. Calling the `\formatbib` command will now produce an error.

1.3 New To This Version (2.5.2)

This version corrects a page number position change that was recently put in place by the graduate school.

1.4 New To This Version (2.5.3)

Corrected a formatting issue with the block quotes environment.

1.5 New To This Version (2.5.4)

Added the `nofigures` and `notables` options. These options are used to exclude the LOF and LOT from the TOC's if no tables or figures are present in the document. Also an issue with the TOC column labels and long section titles not wrapping were corrected.

2 Installation

The package is supplied in `dtx` format, running `tex uothesis.dtx` will extract the package whereas `latex uothesis.dtx` will extract it and also typeset the documentation.

Typesetting the documentation requires a number of packages in addition to those needed to use the package. This is mainly because of the number of demonstration items included in the text. To compile the documentation without error, you will need the packages:

- `array`
- `hypdoc`
- `lmodern`
- `booktabs`
- `listings`
- `microtype`

3 Requirements

The `uothesis` class itself minimally requires the following packages:

- `float`
- `setspace`
- `todonotes`
- `subfig`
- `natbib`
- `ragged2e`
- `xcolor`
- `lineno`
- `layouts`
- `draftwatermark`
- `graphicx`

Additional features and functionality may require the following packages:

- `mhchem` (for `chemistry`)
- `amsmath` (for `amstex`)
- `amsthm` (for `amstex`)
- `amssymb` (for `amstex`)
- `lipsum` (for `lipsum`)

These are normally present in the current major TeX distributions, but are also available from [The Comprehensive TeX Archive Network](#). Note that these packages themselves may have secondary dependencies not expressly listed here. When in doubt read their documentation.

4 The Class File

`uothesis` is an extended version of the `report` L^AT_EX primitive class. It has been heavily extended to comply with the University of Oregon Graduate School requirements for the formatting of dissertations and theses. While every effort has been made to assure that the class generates a document that fully complies with the Graduate School's requirements, every document will be different and use different packages that may cause formatting issues. Therefore, the use of this package *does not* replace extensive proof reading or the meetings with the thesis editor.

5 Class Options

Class options for `uothesis` should be declared in the usual manner within square brackets during the class declaration in the header:

```
\documentclass[option1,option2,option3]{uothesis}
```

Note that class options should be coma separated.

5.1 General class options

<code>dissertation</code>	Formats the document for a Ph.D. dissertation.
<code>msthesis</code>	Formats the document for a Master's thesis (still experimental... Graduate School has not approved for theses.)
<code>draftimages</code>	Graphics included using <code>\includegraphics</code> are suppressed to just their bounding boxes and file names. This option is useful for quick compiles where only the layout of the pages and text are a concern. This option is suppressed by the option <code>final</code> .
<code>draftcopy</code>	Creates a draft copy of the document. Dates the document on each page, does not include the preliminary pages, TOC, TOF, or TOT. A page of notes and omissions is created after the cover page for use with the editorial macros below. This option also uses the <code>bound</code> option, which shifts the text block slightly to one side for three hole punching. Line numbering is also invoked for this draft mode and the text is shrunk down by one size to reduce paper if the draft is printed.
<code>committeedraft</code>	Like <code>draftcopy</code> except includes front matter and standard title page. Does not include the texts of the acknowledgement or dedication. For distribution to committee members.

<code>latedraft</code>	Useful for last-minute preparations, corrections, and editing before handing the document to the graduate school. For all purposes, <code>latedraft</code> is identical to <code>final</code> , with the exception that the dedication and the acknowledgements are suppressed and the inclusion of a disclaimer to clearly mark this as a draft copy.
<code>final</code>	The final draft for presentation to the graduate school.
5.2 Formatting class options	
<code>justified</code>	This option turns off the ragged right setting for the large text blocks of the document and returns the text block formatting to the L ^A T _E X default, which is full justification. The UOGS does not generally approve of full justification, but they will accept it in this case since L ^A T _E X does it properly.
<code>copyright</code>	Includes the copyright page.
<code>numsections</code>	Provides the option of numbered sections.
<code>gsmmodern</code>	An alternate formatting scheme to <code>numsections</code> that still provides the section numbering. This has been designed to be closer to technical manuscripts with the numbering hierarchy spanning from the Chapter to the subsubsection level.
<code>contnumbering</code>	This changes the figure and table numbering to be continuous throughout the document from start to finish.
<code>amstex</code>	Loads <code>amsmath</code> , <code>amsthm</code> , and <code>amssymb</code> packages in proper order.
<code>chemistry</code>	Loads the <code>amstex</code> class option, <code>mhchem</code> , and <code>chemstyle</code> packages. Defines new environments for long and short reactions (<code>chem</code> and <code>Chem</code>) and a new cross reference type for reactions (<code>rxn:</code>) for use with <code>\eqref{}</code> . The <code>rxn:</code> prefix is paired with a new counter to keep track of the reaction environments. This counter is reset by chapter by default.
<code>smallcaps</code>	Allows small caps in titles and TOC. This option should only be used if there is a need to differentiate between capital and lower case letters in the title, such as with atomic symbols.
<code>bound</code>	The <code>bound</code> option is provided strictly for personal use. It reformats the margins and text block parameters to allow for printing and binding of finished documents. A disclaimer is placed at the bottom of the copyright page, and the copyright notation on this page is suppressed.
<code>nofigures</code>	Excludes the list of figures from the table of contents section of the frontmatter in cases where there are no figures in the document.
<code>notables</code>	Excludes the list of tables from the table of contents section of the frontmatter in cases where there are no tables in the document.

6 Manuscript macros

6.1 General macros

<code>\cleanbreak</code>	Forces a clean linebreak in the TOC, TOT, and TOF. This macro is provided to correct issues with over-run in the TOC, etc. It is used so:
	<pre>\chapter[This is the use of the \linebreak...]{This is the use of the...}</pre>

The line would break at the point indicated. This macro does not always work depending on how badly other typesetting rules are violated and should only be used in the square bracketed "short title" area. Note that to conform to the University of Oregon Graduate School style manual the title in the square and

curly brackets should be identical. A second caveat to this command is that it is especially unstable with the use of ragged right text blocks. The method that is used for the fully justified text block (L^AT_EX default) is incompatible with the `Ragged2e` package, and so a second method, `\newline`, is used. This method gives L^AT_EX the option of allowing a page break in the middle of the TOC entry.

`\ie` The following commands to provide macro's for common latin phrases. These commands assume that it is desired for these phrases to be italicized and provide proper punctuation after the latin phase. The code is taken from the `Chemstyle` package.

6.2 Editing macros (`draftcopy`, `committeedraft`)

`\ednote` `\ednote{}` is a variation on standard margin notes. A numbered margin note will be placed in the margin with a place holder in the text body at the location in the text. A line will connect the place holder with the margin note and the text in the "`{}`" will appear on the notes page in the draft copy of the document. The macro is used so:

```
This is some text that needs a callout\ednote{this is a call out}.
```

`\needref` `\needref{}` places a diamond in the text body at the command location, and a red margin note at the same line with an arrow and a "citation." The "`{}`" can be left blank, but must be included at the moment. Text in the braces will also appear on the notes page in the draft copy.

`\rfmk` Extensive use of the `\needref{}` macro may result in float errors in the compile. The `\rfmk` command is provided in such cases. It does not provide margin note, only the text marker in the document body and the entry into the list of todo's that appears in the draft mode. `\rfmk` also functions in draft modes, inserting a dummy `\cite` command in the text which results in the default missing citation place holder for the bibtex style being used.

`\here` `\here` places a square in the text body and a red "here" in the margin. It is intended to mark incomplete sections and will place an "incomplete section" note in the draft copy notes page.

6.3 Chemistry macros (`chemistry`)

These commands use a combination of `mhchem` and `amsmath` calls to create two new environments, `chem` and `Chem`. These reactions can be cross referenced using the `rxn` prefix in `\eqref{}`.

```
\eqref{rxn:somerxn}
```

`\chem` `\chem` is for short equations (no more than 1 column width) and uses `mhchem` and standard AMS `equation` environments. It is used so:

```
\chem[rxn:firstrxn]{MT2X4}
```

`\Chem` The second environment is `\Chem`, which is for long reactions. This environment uses `amsmath multiline` environments which allow the use of `\backslash` to indicate where the equation should be broken. In this reaction, the line will be broken following the reaction arrow (`\rightarrow` in the code).

```
\Chem[rxn:secondrxn]{[(\c{math}{(2+\delta)}Se \cdot \c{e}{Cr} \cdot \c{e}{Cu} \cdot \c{e}{Cr} \cdot \c{dot}{\c{e}{\c{math}{(2+\delta)}Se}}) ] -> [\SI{600}{\celsius}][\text{amorphous melt}]\ CuCr2Se4 \c{math}{(\text{Fd3m, } \langle 111 \rangle_{SL})} + Se ^ }
```

`\chemarray` The `\chemarray` environment is for multiple equations that are desired to have a single reference number as in multistep reactions. Like `\Chem`, the `\\"` argument is used to separate lines but the `&` command can also be used to define alignment points within each equation. The `{rl}` argument indicates the alignment of each column created by the `&` commands. In this case right justification for the left hand column and left justification for the right column.

```
\chemarray[rxn:thirdrxn]{rl}{CuCl + 2CrCl3 + OLA \text{(excess)} &-> [\ce{Ar}] [\SI{150}{\celsius}] CuCr(OLA)_x \\ Se + OLA \text{(excess)} &-> [\ce{Ar}] [\SI{330}{\celsius}] Se(OLA)_x \text{reactiontag} \\ CuCr(OLA)_x + Se(OLA)_x &-> [\ce{Ar}, \ \SI{200}{\celsius}, \ \SI{2}{\hour}] [\ce{Ar}, \ \SI{200}{\celsius}, \ \text{SIRange}{0.5}{2}{\hour}] \text{spinel}\ce{(OLA)_x}}
```

7 Manuscript organization

It is suggested that you use some scheme for breaking up your document both for ease of editing and for debugging purposes. The method that has been suggested in the past is to break up the manuscript into a header or root file and a series of dependent tex files that contain one chapter each contained in a directory folder. These dependent tex files can then be included or excluded by using `\include{}` commands. `uohesis` is set up to support this method of working. The inclusion of the "`\% !TEX root =<path to root file>`" command will aid in this. The manuscript header example provided demonstrates one possible scheme for splitting of documents. The different components of the header and will be provided in the next section.

7.1 Manuscript header example

```
\documentclass[dissertation, justified, copyright, draftimages, final, numbers, sort&compress, gsmmodern]{uohesis}

\usepackage[english, UKenglish]{babel}
\input{custom_cmds.tex}

THEESIS FRONT MATTER

TITLES.
\covertitle{Document Title As it will appear on\\ the cover page}
\abstracttitle{Document Title: As it will appear on the abstract page}

AUTHOR
\author{Your Name Here}

DEPARTMENT
\narrowdepartment{Short Dept. Name}
```

```

\department{Full name of department}

DEGREE INFORMATION
\degreetype{Doctor of Philosophy}
\degreemonth{Month}
\degreeyear{XXXX}

COMMITTEE INFORMATION
\advisor{Advisor's name}
\chair{Chair's name}
\committee{Member 1 & Inside\\
           Member 2 & Inside\\
           Member 3 & Outside\\
           Member 4 & Honorary\\}
\gradean{Richard Linton}

CURRICULUM VITAE
\include{thesis_cv}

ACKNOWLEDGEMENTS
\include{thesis_acknowledgements}

DEDICATION (optional)
\include{thesis_dedication}

ABSTRACT
\include{thesis_abstract}

Main Document
\begin{document}
\maketitle

CHAPTERS
\include{introduction}
\include{chapter_2}

APPENDICES
\appendix
\include{tappendix_1}

REFERENCES
\bibliographystyle{unsrtnat}
\bibliography{bib}
\end{document}

```

Note that the various components of the document are kept separate with `\include` commands. The exception is the `\input` command used for the `custom_cmds.tex`. The difference comes from the fact that `\input` is treated as part of the header file itself and is processed in line with the rest of the code. The `\import` command takes the output of the target file and adds that, resulting in pages breaks after each `\include`. This is handy, as the style manual requires that each chapter starts on a new page.

8 Manuscript meta-data

Please note that in all cases the below macro's are *macro's* and not *environments*. As an example, most L^AT_EX classes have a `\begin{abstract}... \end{abstract}` environment that is used to handle the abstract text. This is not the case with this class, the method used for handling the front-matter requires that these elements be passed to L^AT_EX as strings in the macro's: `\abstract{...}`.

8.1 Main information

<code>\covertitle</code>	<code>\covertitle{}</code> is the title that will appear on the title page of the document. It requires hard coding of the line breaks, using " <code>\\"</code> ", to comply with the inverted pyramid style of the graduate school ³ .
<code>\abstracttitle</code>	<code>\abstracttitle{}</code> is the title form for anywhere the title appears as in line text. Do NOT use line breaks in the abstract title.
<code>\author</code>	The full name of the author as it appears on the UO records.
<code>\narrowdepartment</code>	Some departments have an officially designated "short" name. If you are in one of these departments, this should go here and will be used in the appropriate locations in the document.
<code>\department</code>	This is the official name of the students department.
<code>\degreetype</code>	Take the abbreviation of the degree that the document is for and expand it to its full name, e.g. Doctor of Philosophy, Master of Arts, Science, etc.
<code>\degreemonth</code>	Month of graduation, either December, March, June, or August.
<code>\degreeyear</code>	The year that the dissertation or thesis will be defended.
<code>\advisor</code>	Full name of the research advisor
<code>\chair</code>	Full name of the committee chair
<code>\cochair</code>	Full name of the committee cochair, if applicable.
<code>\committee</code>	A list of the examining committee following the form: " <code><full name>&<member type>\\"</code> " (see example below). This list can be of arbitrary length and is formatted using a table. <code>\committee{Dr. Person 1 & Member\\ Dr. Person 2 & Member\\ Dr. Person 3 & Outside Member\\ Dr. Person 4 & Honorary Member\\}</code>
<code>\graddean</code>	The full name of the current dean of the University of Oregon Graduate School.

8.2 Chapter-like meta-data

Chapter-like meta-data are large blocks of text. These can be placed in the header file or they can be replaced with `\include{}` arguments and kept elsewhere to keep the header compact. The example header uses the latter option.

<code>\abstract</code>	Fully formatted abstract, as you turned in to the University of Oregon Graduate School. There are size restrictions placed on this document, 350 words and 150 words for the dissertation and the thesis respectively ⁴
<code>\acknowledge</code>	Optional, the style guide ⁵ indicates that this should be no more than 2 pages.
<code>\dedication</code>	Optional, small text block.

³Thesis and Dissertation Style and Policy Manual (v. Fall 2010), Pg. 22

⁴Thesis and Dissertation Style and Policy Manual (v. Fall 2010), Pg. 24

⁵Thesis and Dissertation Style and Policy Manual (v. Fall 2010), Pg. 25

8.3 The Curriculum Vitae

\birthplace	The birth place of the author
\birthday	author's birthday
\school	List of the schools attended by the author, with their city and state of location. Each school is on its own \school{} entry:
	<pre>\school{University of Somewhere, City, State} \school{University of Somewhere Else, City, State} \school{A State School, City, State}</pre>
\degree	List of the education of the author. Each degree has its own \degree{} entry. Each entry should be formatted so: <i>(full degree name)</i> in <i>(field)</i> , <i>(year)</i> , <i>(school name)</i> . An example is below:
	<pre>\degree{Doctor of Philosophy in submersible basketry, 2010, University of Somewhere} \degree{Master of Something in something important, 2005, University of Somewhere Else} \degree{Bachelor of Something in something completely different, 2002, A State School.}</pre>
\interests	A comma delimited list of interests.
\position	Work history related to the authors research, as with \school{} and \degree{}, one entry per macro call.
\award	Awards and honors, one per call to the macro as with \school{}, \degree{}, and \position{}.
\publication	This section should be formatted the same way as \schools{}, etc. The actual entries must be formatted <i>exactly</i> the same as the References Cited section of the document. The easiest way to do this is to take a bibtex file with the authors publications, and create a .bib file for that using the same bibtex style and then copy and pasting it into this section each \bibitem{} being placed inside a \publication{} macro call ⁶ . Bibdesk will do this by using one of the optional copy formats under file as should JabRef.

9 Trouble Shooting and FAQ's

First, every attempt has been made to make this package as general and stable as is possible. That said, bugs happen so please report them. *Before* reporting them however, there are somethings that you can do to trouble shoot. It is suggested that you try to answer each of these questions yourself before you contact the maintainer:

- What does your compile log say? Are there any errors?
- Are there any errors in your BiBT_{EX}compile log?
- Can you replicate the problem with a minimal example, i.e. A basic code chunk in a chapter with your header?
- Can you typeset just the front-matter (abstract, cv, etc.)?

⁶Yes, this is a little redundant, but it was done this way to avoid any potential conflicts with BiBT_{EX}

- Do you have any extra packages installed?
- Have you checked to see if your problem is caused by a specific package or combination of packages?
- Are you calling any packages that are already called by the class (section 3 of this document)?

10 Implementation

10.1 Preamble

First comes the preliminary declarations, the L^AT_EX version that is needed, what the class file provides, etc.

```
1 <*class>
2 \ProvidesClass{uothesis} [2012/02/08 v2.5.6 Submission to
3 University of Oregon Graduate School]
```

Next, we print out some identifying text in the output window.

```
4 \typeout{UO Thesis Class}
5 \typeout{}
6 \typeout{Based on the UO Thesis macros by Bart Massey, et al.}
7 \typeout{Currently maintained by Michael D. Anderson}
8 \typeout{Accepted by the University of Oregon Graduate School}
9 \typeout{for general use with Masters Thesis <date goes here>}
10 \typeout{Accepted by the University of Oregon Graduate School}
11 \typeout{for general use with PhD Dissertations <date goes here>}
12 \typeout{}
```

And then list the files being called by the .tex file.

```
13 \listfiles
```

Here we declare the draft option flags and conditionals for the code.

```
14 \newif\ifthesis
15 \newif\ifdraftcopy
16 \newif\ifcommitedraft
17 \newif\iflatedraft
18 \newif\ifdraftimage
19 \newif\ifdraft
20 \newif\iffinal
21 \newif\ifsc
22 \newif\iflipsum
23 \newif\ifjustified
24 \newif\ifamstex
25 \newif\ifchem
26 \newif\ifbound
27 \newif\ifnatbib
28 \newif\ifnotables
29 \newif\ifnofigures
30 \newif\if@dissertation
31 \newif\if@copyright
32 \newif\if@gsmmodern
33 \newif\if@numsections
34 \newif\if@contnumb
35 \newif\if@draftimage
```

Now we declare the class options and assign the flags for each option.

```
36 \DeclareOption{dissertation}{\@dissertationtrue\thesistrue\natbibtrue}
37 \DeclareOption{msthesis}{\@dissertationfalse\thesistrue}
38 \DeclareOption{draftimages}{\draftimagetrue\PassOptionsToPackage{draft}{graphicx}}
39 \DeclareOption{draftcopy}{\drafttrue\draftcopytrue\bountrue}
40 \DeclareOption{commitedraft}{\drafttrue\commitedrafttrue}
```

```

41 \DeclareOption{latedraft}{\drafttrue\latedrafttrue}
42 \DeclareOption{copyright}{\@copyrighttrue}
43 \DeclareOption{gsmmodern}{\@gsmmoderntrue}
44 \DeclareOption{numsections}{\@numsectionstrue}
45 \DeclareOption{amstex}{\amstextrue}
46 \DeclareOption{chemistry}{\chemtrue\amstextrue}
47 \DeclareOption{smallcaps}{\sctrue}
48 \DeclareOption{justified}{\justifiedtrue}
49 \DeclareOption{nofigures}{\nofigurestrue}
50 \DeclareOption{notables}{\notablestrue}
51 \DeclareOption{cheqns}={}
52 \DeclareOption{final}{\draftcopyfalse\draftimagefalse
53 \committeedraftfalse\latedraftfalse\finaltrue}
54 \DeclareOption{lipsum}{\lipsumtrue}
55 \DeclareOption{bound}{\boundtrue}
56 \DeclareOption{natbib}{\natbibtrue}
57 \DeclareOption*{\PassOptionsToPackage{\CurrentOption}{natbib}}

```

Finally, we process the options.

```
58 \ProcessOptions
```

Now we check that a document type has been indicated in the .tex file.

```

59 \ifthesis\else
60 \typeout{warning: Neither mthesis nor dissertation specified}
61 \fi

```

If the bound option is indicated in the .tex file, we need to warn the user.

```

62 \ifbound
63 \typeout{PAGE FORMAT CHANGED FOR BINDING AND PRINTING}
64 \typeout{This format DOES NOT COMPLY with University of Oregon Guidelines}
65 \typeout{For personal use only!}
66 \fi

```

Now we pass options to the report class primitive based on the options declared in the .tex file.

```

67 \iflatedraft\PassOptionsToClass{12pt,draft}{report}\fi
68 \ifcommitteedraft\PassOptionsToClass{12pt,draft}{report}\fi
69 \ifdraftcopy\PassOptionsToClass{10pt,draft}{report}
70 \PassOptionsToClass{draft}{todonotes}\fi
71 \iffinal
72 \ifbound
73 \PassOptionsToClass{12pt,twoside}{report}
74 \else
75 \PassOptionsToClass{12pt}{report}
76 \fi\fi

```

Now we load the L^AT_EXreport class primitive.

```
77 \LoadClass{report}
```

10.2 Required Packages

Call the required packages for uothesis.

```

78 \RequirePackage{float}
79 \RequirePackage{subfig}

```

```

80 \RequirePackage[dvipsnames]{xcolor}
81 \RequirePackage{graphicx}
82 \RequirePackage{setspace}
83 \RequirePackage{xspace}
84 \RequirePackage[left,pagewise]{lineno}
85 \RequirePackage{layouts}
86 \RequirePackage[colorinlistoftodos]{todonotes}
87 \RequirePackage{ragged2e}
88 \captionsetup{labelsep=space}
89 \setlength{\RaggedRightRightskip}{0pt plus 1cm}
90 \setlength{\RaggedRightParindent}{0.4in}

```

10.3 Document-wide Macros and Options

package options conditionals (document wide)

chem Here we define the result of calling the `chemistry` option. We call `chemstyle` and `mhchem`.

```

91 \ifchem
92 \RequirePackage[version=3]{mhchem}
93 \fi

```

amstex call amstex packages if option enabled

```

94 \ifamstex
95 \RequirePackage{amsmath,amsthm,amssymb}
96 \fi

```

lipsum call lipsum package if option enabled

```

97 \iflipsum
98 \RequirePackage{lipsum}
99 \fi

```

natbib call natbib package if enabled, which is the default setting

```

100 \ifnatbib
101 \RequirePackage{natbib}
102 \fi

```

10.3.1 Draft Only Macros and Options

draftwatermark create draft watermark

```

103 \ifdraft
104 \RequirePackage{draftwatermark}
105 \newcommand{\watermark}[5]{\SetWatermarkAngle{#1}
106 \SetWatermarkLightness{#2}
107 \SetWatermarkFontSize{#3}
108 \SetWatermarkScale{#4}
109 \SetWatermarkText{\uppercase{#5}}}
110 \ifdraftcopy\watermark{45}{0.95}{5cm}{2.5}{Draft}\fi
111 \ifcommittee\watermark{45}{0.95}{5cm}{2.25}{Committee Draft}\fi
112 \iflateral\watermark{45}{0.95}{5cm}{2.5}{Review Proof}\fi
113 \fi

```

Here we create the editing markup commands. These are based off of the \todo command.

```

114 \ifdraftcopy
115 \RequirePackage[colorlinks=true,breaklinks=true]{hyperref}

\ednote Create \ednote command.
116   \newcounter{ednote}
117 \addtoreset{ednote}{chapter}
118   \newcommand{\ednote}[1]{\stepcounter{ednote}\todo[color=blue!40,size=\scriptsize,
119 caption={NOTE \arabic{chapter}.\arabic{ednote}: #1},noprepend]%
120 {\bf\hfil N.\arabic{chapter}.\arabic{ednote}\hfil}%
121 {\textbf{\textcolor{blue}{[N.\arabic{chapter}.\arabic{ednote}]}}}}

\here Create \here command.
122 \newcommand{\here}{\textcolor{BrickRed}{$\blacksquare$}\todo[color=red!40,
123 size=\small,caption={\uppercase{Incomplete Section: Section \arabic{chapter}.%
124 \arabic{section}}}\hfil\textbf{\uppercase{Incomplete Section}}\hfil}]

\needref create \needref command.
125 \newcounter{citation}
126 \newcounter{citationbychapter}
127 \addtoreset{citationbychapter}{chapter}
128   \newcommand{\needref}[1]{\stepcounter{citation}\stepcounter{citationbychapter}\todo[%
129 size=\scriptsize,caption={CITE \arabic{chapter}.\arabic{citation}: #1}]%
130 {\bf C.\arabic{chapter}.\arabic{citation}}%
131 {\textbf{\textcolor{ForestGreen}{[C.\arabic{chapter}.\arabic{citation}]}}}}
```

\rfmk create \rfmk command.

```

132   \newcommand{\rfmk}{\stepcounter{citation}\stepcounter{citationbychapter}%
133 {\addcontentsline{tdo}{todo}{\protect\colorbox{green!40}{\textcolor{green!40}{o}}}\ Missing
134 {\textcolor{red}{\ensuremath{\text{\texttt{\^text{[REF: C.\arabic{chapter}.\arabic{citationbychapter]}}}}}}}}
```

If the draft mode is not enabled we need to remove commands so that they don't cause errors. This is done by setting them to be empty if \ifdraft comes back as false.

```

135 \else
136   \newcommand{\ednote}[1]{}
137 \newcommand{\here}{}
138 \newcommand{\needref}{}
139 \newcounter{citation}
140 \newcommand{\rfmk}{\stepcounter{citation}{\textcolor{red}{\cite{dummy_\arabic{citation}}}}}
141 \fi
```

10.4 General Macros and Environments

\cleanbreak A new command for clean line breaks in TOC, TOF, TOT. The version of the command paired with the RaggedRight option doesn't work particularly well. It is intended more for using the L^AT_EX default of having a full justification in the text block.

```

142 \newcommand{\cleanbreak}{%
143 \ifjustified
144 \\\\hfil}
```

```

145 \else
146 \newline
147 \fi}

```

new chemical equation environments. (modified from mhchem documentation, pg. 10-11) create reaction counter

reaction Modify the reaction counter to fit formatting requirements.

```

148 \ifchem
149 \newcounter{reaction}
150 \renewcommand\thereaction{Formula\ \thechapter.\arabic{reaction}}
151 \addtoreset{reaction}{chapter}
create new reaction tag
152 \newcommand\reactiontag{\refstepcounter{reaction}\tag{\thereaction}}

```

\chem Create new chem environment (doesn't use line breaks)

```

153 \newcommand{\chem}[2][]{\begin{equation}\ce{#2}%
154 \ifx\empty\empty\else\label{#1}\fi\reactiontag\end{equation}}

```

\chemarray Create new chemarray environment (allows for multiple equations with one reference and number). Requires \reactiontag to be placed explicitly in the equation.

```

155 \newcommand{\chemarray}[3][]{\begin{equation}\begin{array}{#2}\ce{#3}%
156 \end{array}\ifx\empty\empty\else\label{#1}\fi\reactiontag\end{equation}}

```

\Chem Create new Chem environment (enables line breaks)

```

157 \newcommand{\Chem}[2][]{\begin{multline}\ce{#2}%
158 \ifx\empty\empty\else\label{#1}\fi\reactiontag\end{multline}}
159 \fi
160 \newcommand*{\cst@xspace}{\expandafter\xspace}
161 \newcommand*{\cst@latin}{\expandafter}
162 \newcommand*{\etc}{\@ifnextchar.{\cst@etc}{\cst@etc.\cst@xspace}}
163 \newcommand*{\invacuo}{\cst@latin{in vacuo}\cst@xspace}
164 \newcommand*{\etal}{\@ifnextchar.{\cst@etal}{\cst@etal.\cst@xspace}}
165 \newcommand*{\eg}{\cst@eg.}
166 \newcommand*{\ie}{\cst@ie.}
167 \newcommand*{\cst@etal}{\cst@latin{et-al}}
168 \newcommand*{\cst@etc}{\cst@latin{etc}}
169 \newcommand*{\cst@ie}{\cst@latin{i.e}\spacefactor999\relax}
170 \newcommand*{\cst@eg}{\cst@latin{e.g}\spacefactor999\relax}

```

10.5 Internal Variables and Commands

\normalspace Define a single spacing environment.

```
171 \newenvironment{normalspace}{\begin{spacing}}{\end{spacing}}
```

\@mydouble Define special double space environment.

```
172 \def\@mydouble{\end{spacing}\large\normalsize\setstretch{1.7}}
```

\@mysingle Define second special single space environment.

```
173 \def\@mysingle{\single\large\normalsize\setstretch{1.7}}
```

```

\@mysinglespace Define third special single space environment.
174 \def\@mybibsingle{\singlespace\large\normalsize\setstretch{1}}


\@draftdate Define draftdate: YYYY/MM/DD
175 \def\@draftdate{{\the\year/\two@digits{\the\month}/\two@digits{\the\day}}}

\@longdraftdate Define longdraftdate: Day, Month, YYYY
176 \def\@longdraftdate{\today}

Define thesis and dissertation strings for abstract page
177 \if@dissertation
178   \ifdraftcopy
179     \gdef\@cappapertype{Dissertation Draft}
180   \else
181     \gdef\@cappapertype{Dissertation}
182   \fi
183 \else
184   \ifdraftcopy
185     \gdef\@cappapertype{Thesis Draft}
186   \else
187     \gdef\@cappapertype{Thesis}
188   \fi
189 \fi
190 \xdef\@upperpapertype{\uppercase{\@cappapertype}}
191 \xdef\@papertype{\lowercase{\@cappapertype}}


\@draftstring Define draft copy header string.
192 \ifdraftcopy
193   \def\@draftstring{{\sc Draft of} \@draftdate}
194 \else
195   \def\@draftstring{}
196 \fi


\@disclaimer Define draft copy disclaimer for title pages.
197 \def\@disclaimer{
198   \ifcommitedraft\textcolor{red}{\textbf{\uppercase{committee draft}}}\fi
199   \ifluffedraft\textcolor{red}{\textbf{\uppercase{review proof}}}\fi
200   \ifdraftcopy\textcolor{red}{\textbf{\uppercase{editing draft}}}\fi\\
201   \vspace*{0.5in}
202   \textcolor{red}{\textbf{This is a draft copy for review}}
203   \textcolor{red}{\textbf{and editing purposes only!}}
204   \vspace*{10pt}
205   \setlength\fboxsep{10pt}
206   \setlength\fboxrule{2pt}
207   \framebox[1\columnwidth]{\parbox{0.95\columnwidth}{\textcolor{black}{This draft format in no way complies with the University}}
208   \textcolor{black}{of Oregon Style Graduate School Style Guide for theses or dissertations.}}
209   \textcolor{black}{This draft may employ 10 point fonts for paper conservation, line numbering}
210   \textcolor{black}{for ease of editing, or watermarking and editing notations; all of which violate}
211   \textcolor{black}{the Graduate School Style Guide for final documents. See the uothesis.cls}
212   \textcolor{black}{documentation for instructions on producing a properly formatted document.}}}}

```

Define bound disclaimer for copyright page

```

214 \def\@bounddisclaimer{%
215 \parbox{0.75\textwidth}{\centering
216 \begin{spacing}{0.5}
217 {\tiny This document is for the personal use of the author and does not comply
218 with the University of Oregon Graduate School. Please contact the University
219 of Oregon Graduate School for information on how to obtain an official copy
220 of this document.}
221 \end{spacing}}\%
222 \vfill\LaTeX
223 }
```

10.6 User Accessible Variables and Commands

10.6.1 Titles

\covertitle	Define cover title string
	224 \def\covertitle#1{\gdef\@covertitle{\gdef\@uppercovertitle{\begin{doublespace} $\text{uppercase}\{#1\}$ \end{doublespace}}}}
\abstracttitle	Define abstract title string
	225 \def\abstracttitle#1{\gdef\@abstracttitle{\gdef\@upperabstracttitle{\text{uppercase}\{#1\}}}}

10.6.2 Author Strings

\author	Define author command
	226 \def\author#1{\gdef\@author{\gdef\@upperauthor{\text{uppercase}\{#1\}}}}
\narrowauthor	Define narrow author
	227 \def\narrowauthor#1{\gdef\@narrowauthor{\gdef\@uppernarrowauthor{\text{uppercase}\{#1\}}}}

10.6.3 School Information and Examination Committee

\department	Define department
	228 \def\department#1{\gdef\@department{\#1}}
\narrowdepartment	Define narrow department
	229 \def\narrowdepartment#1{\gdef\@narrowdepartment{\#1}}
\advisor	Define advisor
	230 \def\advisor#1{\gdef\@advisor{\#1}}
\chair	Define chair
	231 \def\chair#1{\gdef\@chair{\#1}}
\cochair	Define cochair for dissertation
	232 \newif\if@cochair
	233 \if@dissertation
	234 \def\cochair#1{\gdef\@cochair{\#1}\@cochairtrue}
	235 %Define the committee
	236 \def\committee#1{\gdef\@committee{\#1}}
	237 \fi

```
\graddean Define the dean  
238 \def\graddean#1{\gdef\@graddean{#1}}
```

10.6.4 Degree and Graduation

```
\degreetype Define degree type  
239 \def\degreetype#1{\gdef\@degree{#1}}  
  
\degreemonth Define degree month  
240 \def\degreemonth#1{\gdef\@degreemonth{#1}}  
  
\degreeyear Define degree year  
241 \def\degreeyear#1{\gdef\@degreeyear{#1}}
```

10.6.5 Abstract, Dedication, etc...

```
\abstract Define abstract  
242 \long\def\abstract#1{\gdef\@abstract{#1}}  
  
\dedication Define dedication  
243 \newif\if@dedication  
244 \long\def\dedication#1{\gdef\@dedication{#1}\@dedicationtrue}  
  
\acknowledge Define acknowledgement  
245 \long\def\acknowledge#1{\gdef\@acknowledge{#1}}
```

10.6.6 Signature Page Internal Commands

```
\@optional Define the optional argument: c.f. David Solomon's "The Advanced TeXbook",  
ISBN: 0-387-94556-3, p. 120-150. This macro is used to expand a name iff it is  
defined. Note that it is invoked as \@optional{foo} to expand \foo.  
246 \def\@optional#1{\let\what=\expandafter\csname #1  
247 \endcsname\ifx\what\relax\else\what\fi}
```

```
\sigline, \Sigline Define signature line commands  
248 \newcommand{\@sigline}[2]{Approved: \rule{#1}{.4pt}\vspace{-0.25\baselineskip}{#2}}  
249 \newcommand{\@Sigline}[1]{Approved: \hrule\vspace{-\parskip}\vspace{4pt}{#1}}
```

10.6.7 CV Internal Commands

```
\cvoneline Define single line environment for CV  
250 \def\cvoneline#1#2{ \vspace{#1}{#2}}
```

```
\cvmultiline Define multiline environment for CV  
251 \def\cvmultiline#1#2{  
252 \par\vspace{1.5\baselineskip}\noindent  
253 {#1}:\vspace{#1}\noindent\nopagebreak  
254 \vspace{#1}\parbox[b]{5in}{#2}}
```

```
\@cvhangindent define CV hanging indent  
255 \newlength{\@cvhangindent}
```

Set the hanging indent length and deal with paragraph alignments within the CV.

```
256 \setlength{@cvhangindent}{\parindent}
257 \addtolength{@cvhangindent}{1.5em}
258 \long\def\cvpars#1{\par #1}
259 \long\def\cvitem#1#2{\par\vspace{1.5\baselineskip}\noindent{#1}:\nopagebreak\par #2}
```

10.6.8 CV commands

CV Variables Define birthplace

```
\birthplace 260 \def\birthplace#1{\gdef@birthplace{#1}}
```

\birthday Define birthday

```
261 \def\birthday#1{\gdef@birthdate{#1}}
```

\schools Define educational history

```
262 \def\school#1{\expandafter\gdef\expandafter@\schools\expandafter{\@schools\cvpars{#1}}}
```

\degrees Define the degrees received.

```
263 \long\def\degree#1{\expandafter\gdef\expandafter@\degrees\expandafter{\@degrees\cvpars{#1}}}
```

\interests Define interests

```
264 \def\interests#1{\expandafter\gdef\expandafter@\interests\expandafter{\@interests\cvpars{#1}}}
```

\experience Define professional experience.

```
265 \def\position#1{\expandafter\gdef\expandafter@\experience\expandafter{\@experience\cvpars{#1}}}
```

\awards Define awards. (optional)

```
266 \def\award#1{\expandafter\gdef\expandafter@\awards\expandafter{\@awards\cvpars{#1}}}
```

\publications Define publications. (optional)

```
267 \def\publication#1{\expandafter\gdef\expandafter@\publications\expandafter{\@publications\cvpars{#1}}}
```

10.7 Preliminary page formatting, layout, and settings

Set the text spacing to a little under double spacing.

```
268 \setstretch{1.7}
```

Set a standard header size

```
269 \newcommand{@normalheaderdims}{%
270 \textheight 620pt
271 \headheight 14pt
272 \headsep 14pt}
```

Set standard page margins

```
273 \ifbound
274 \oddsidemargin 0.6in
275 \evensidemargin 0.6in
276 \textwidth 5.8in
277 \footskip 0.5in
278 \footnotesep 15pt
279 \parindent 24pt
280 \topmargin 0in
```

```

281 \else
282 \oddsidemargin 0.25in
283 \evensidemargin 0.25in
284 \textwidth 6in
285 \footskip 0.25in
286 \footnotesep 15pt
287 \parindent 24pt
288 \topmargin 0in
289 \fi
290 \normalheaderdims

```

Set vertical space net (relative to the top of the page).

```

291 \def\@fromtopskip#1{
292 \@tempdima=#1
293   \advance\@tempdima by-1in
294   \advance\@tempdima by-\topmargin
295   \advance\@tempdima by-\headheight
296   \advance\@tempdima by-\headsep
297   \advance\@tempdima by-\baselineskip
298   \advance\@tempdima by12pt
299   \hbox{to0pt{}}\nointerlineskip\vskip\@tempdima}
300

```

Setting section numbering for numbered and unnumbered sections. Include sections in the TOC

```

301 \setcounter{tocdepth}{1}

```

Declare a new counter for section numbers

```

302 \newcounter{@shownumdepth}

```

Show section numbers with gsmmodern.

```

303 \if@gsmmodern
304   \setcounter{@shownumdepth}{2}
305 \else

```

Show section numbers with numsection

```

306 \if@numsections
307   \setcounter{@shownumdepth}{2}
308 \else

```

Suppress section numbers in TOC and section headings

```

309   \setcounter{@shownumdepth}{0}
310   \setcounter{secnumdepth}{1}
311 \fi
312 \fi

```

Write the appendix count in the main aux file

```

313 \def\@emit#1{\if@filesw\immediate\write\@mainaux{#1}\fi}

```

Increase the hyphenation penalty to prevent hyphenation.

```

314 \hyphenpenalty=500000

```

Increase tolerance of wider word spacing in lines.

```

315 \tolerance=5000

```

Increase the widow penalties.

```

316 \widowpenalty=10000

```

Increase the orphan penalties

317 \clubpenalty=10000

Allow ragged bottom pages

318 \raggedbottom

10.8 The Title Page Layout

```
\@maketitlepage Define the title page
319 \def\@maketitlepage{
create a new page
320 \newpage
make the page empty
321 \thispagestyle{empty}
if draft mode start numbers here
322 \ifdraft\linenumbers\fi
begin center justification
323 \begin{center}
position title start 0.25 in from top of text block
324 \vspace*{0.25in}
set line spacing to double spacing for title
325 \doublespacing
call uppercovertitle
326 \uppercovertitle
set line spacing to single spacing
327 \singespacing
fill to by line
328 \vfill
set by line and start new line
329 by \\*[{\baselineskip}]
call upper case author string
330 \upperauthor\\
fill to gs declaration
331 \vfil
if draft mode set disclaimer
332 \ifdraft\@disclaimer\\fi\vfill
declaration to the graduate school.
333 A \upperpapertype \\*[{\baselineskip}]
334 Presented to the \narrowdepartment \\*
335 and the Graduate School of the
336 University of Oregon \\*
337 in partial fulfillment of the requirements \\
338 for the degree of \\
call degree
339 \degree \\*[{\baselineskip}]
```

```

call degree month
340 \@degreemonth ~\thegreeeyear\\
close center justification
341 \end{center}}

```

10.9 The Approval Page

Define the approval signature page

```

\@makeapprovpage
342 \def\@makeapprovpage{
create clear page
343 \clearpage
344 \thispagestyle{plain}
place the heading.
345 \startchapter{\@upperpapertype\ APPROVAL PAGE}
begin single spacing
346 \begin{spacing}{1}
3 ex of vertical space
347 \vspace*{3ex}
suppress indenting in the page
348 \noindent
call author string.
349 Student: \@author\*\[\baselineskip]
call the document title.
350 Title: \@abstracttitle\*\[\baselineskip]
place the GS mandated text
351 This \@papertype\ has been accepted and approved
352 in partial fulfillment of the requirements for the
353 \@degree\ degree in the \@narrowdepartment\ by:\*\[\baselineskip]
create a table with the names of the examining committee
354 \begin{tabular}[t]{p{2.25in} p{3.25in}}
call chair string then label
355 \@chair & Chair\\
call cochair string then label if it exists
356 \if@cochair
357 \@cochair& Co-chair\\
358 \fi
call advisor
359 \@advisor & Advisor\\
call committee string
360 \@committee\\
361 and & \\ \\
362 \@graddean & Vice President for Research \& Innovation/ Dean of the Graduate School

```

```

end tablular environment
363 \end{tabular}\*\[\baselineskip]
remainder of the text required by GS
364 Original approval signatures are on file with the
365 University of Oregon Graduate School.\*\[\baselineskip]
degree date
366 Degree awarded \@degreemonth ~\thedegreeyear
end single spacing
367 \end{spacing}

```

10.10 The Copyright Page

```

\@makecopyrightpage Define the copyright page.
368 \def\@makecopyrightpage{
begin copyright conditional
369 \if@copyright
create clear page
370 \clearpage
371 \thispagestyle{plain}
4 in vertical space
372 \fromtopskip{5in}
create a centered line with copyright symbol followed by degree year and author
string
373 \ifbound\else\centerline{\copyright ~\thedegreeyear ~\author}\fi
vertical fill to bottom of the page if draft mode set disclaimer
374 \ifbound{\centering\@bounddisclaimer}\else\vfill\fi\vfil
end copyright conditional
375 \fi}

```

10.11 The Abstract Page

```

\@makeabstractpage Define the abstract page.
376 \def\@makeabstractpage{
create clear page
377 \clearpage
378 \pagestyle{plain}
place the heading.
379 \startchapter{\upperpapertype\ ABSTRACT}
begin single spacing
380 \begin{spacing}{1}
3 ex of vertical space
381 \vspace*{3ex}
suppress indenting in the page
382 \noindent

```

```

call author string.
383 \@author\\*\[\baselineskip]
call the degree type.
384 \@degree\\*\[\baselineskip]
call the department name
385 \@department\\*\[\baselineskip]
the date
386 \@degreemonth ~\thedegreeyear\\*\[\baselineskip]
call the document title.
387 Title: \@abstracttitle\\*\[\baselineskip]
388 \parbox[t]{5in}{\raggedright
begin co-chair conditional
389 \if@cochair
signature lines for advisor
390 \@sigline{3.5in}{\hspace*{1.5in}\@advisor, Co-chair}\\*\[\baselineskip]
signature lines for cochair.
391 \@sigline{3.5in}{\hspace*{1.5in}\@cochair, Co-chair}
if no co-chair
392 \else
signature line for advisor.
393 \@sigline{3.5in}{\hspace*{1.5in}\@advisor}
end co-chair conditional
394 \fi}\\*[2\baselineskip]
395 \end{spacing}
set text block to full justification if option is called
396 \ifjustified\else\RaggedRight\fi
397 \@abstract}

```

10.12 The Acknowledgments Page

```

\@makeackpage Define the acknowledgements page
398 \def\@makeackpage{
create clear page
399 \clearpage
400 \thispagestyle{plain}
set the header.
401 \@startchapter{ACKNOWLEDGEMENTS}
vertical space
402 \vspace*{\baselineskip}
403 \par
begin draft conditional statement
404 \ifcommitteedraft
print disclaimer
405 \begin{center}\@disclaimer\end{center}

```

```

else
406 \else
place acknowledgments set text block to full justification if option is called
407 \ifjustified\else\RaggedRight\fi
408 \@acknowledge
begin late draft conditional statement
409 \iflatedraft
vertical fill
410 \vfill
begin center justification
411 \begin{center}
mark as review proof
412 \textcolor{red}{\textbf{\uppercase{review proof}}}\\
end centering
413 \end{center}
end late draft conditional
414 \fi
end draft conditional
415 \fi}

```

10.13 The Dedication Page

```

\@makededpage Define the dedication page
416 \def\@makededpage{
begin dedication conditional
417 \if@dedication
create clear page
418 \clearpage
419 \thispagestyle{plain}
set page to width of dedication
420 \settowidth{\@tempdima}{\@dedication}
begin short dedication conditional
421 \ifcommitteedraft
exclude from the committee draft.
422 \setlength{\@tempdima}{0pt}
end short dedication conditional
423 \fi
begin long dedication conditional
424 \ifdim\@tempdima<\textwidth
4 in vertical space from top of page
425 \fromtopskip{4in}
set dedication header
426 \chapterline{}}

```

```

if dedication longer than 1 line of text
427 \else
3 in vertical space from top of page
428 \@fromtopskip{3in}
set dedication header
429 \@startchapter{}
end long dedication conditional
430 \fi
vertical space
431 \vspace*{\baselineskip}
end of paragraph
432 \par
begin draft conditional
433 \ifcommitteedraft
print disclaimer
434 \begin{center}\@disclaimer\end{center}
else
435 \else
begin center justification
436 \begin{center}
place the dedication...
437 \@dedication
end center justification
438 \end{center}
vertical fill to center on page
439 \vfill
begin late draft conditional
440 \iflatedraft
begin center justification
441 \begin{center}
set review proof notification
442 \textcolor{red}{\textbf{\uppercase{review proof}}}}\\
end center justification
443 \end{center}
end late draft conditional
444 \fi
end draft conditional
445 \fi
end dedication conditional
446 \fi}

```

10.14 The Cirriculum Vitae

```
\@makevita Define the CV
 447 \def\@makevita{
create clear page
 448 \clearpage
 449 \thispagestyle{plain}
place the heading.
 450 \startchapter{CURRICULUM VITAE}
begin single spacing
 451 \begin{singespacing}
3 ex of vertical space
 452 \vspace*{3ex}
call author string.
 453 \noindent NAME OF AUTHOR:\quad \author \vskip\baselineskip
call birthplace string.
 454 %%\noindent PLACE OF BIRTH:\quad \birthplace \vskip\baselineskip
call birthday string.
 455 %%\noindent DATE OF BIRTH:\quad \birthdate \vskip\baselineskip
 456 \everypar={\hangindent=\@cvhangindent}
call the educational history string.
 457 \noindent GRADUATE AND UNDERGRADUATE SCHOOLS ATTENDED:
 458 \@schools
 459 \vskip \baselineskip
call the degrees string.
 460 \noindent DEGREES AWARDED:
 461 \@degrees
 462 \vskip \baselineskip
call the interests string.
 463 \noindent AREAS OF SPECIAL INTEREST:
 464 \@interests
change the paragraph spacing.
 465 \everypar={\parskip=0.75\baselineskip
 466 \hangindent=\@cvhangindent
 467 \interlinepenalty=\@M}
call the experience string.
 468 \cvitem{PROFESSIONAL EXPERIENCE}{\@experience}
call the awards string.
 469 \cvitem{GRANTS, AWARDS AND HONORS}{\@awards}
call the publications string.
 470 \cvitem{PUBLICATIONS}{\@publications}
end the alternate paragraph spacing.
 471 \par
end single spacing
 472 \end{singespacing}
```

10.15 Full Draft Front Matter

```
\@maketitlepages Here we call the previously defined pages in their proper order.  
473 \def\@maketitlepages{  
set the page numbering to roman  
474 \pagenumbering{roman}  
call the pages  
475 \@maketitlepage  
476 \@makeapprovpage  
477 \@makecopyrightpage  
478 \@makeabstractpage  
479 \@makevita  
480 \@makeackpage  
481 \@makededpage  
begin single spacing before TOC, etc...  
482 \begin{singespacing}  
adjust the formatting for the TOC's  
483 \clearpage  
set the page style for non- "tocheadings" style TOC, LOF, LOT figures.  
484 \@tableofcontents  
485 \ifnofigures\else  
486 \IfFileExists{\jobname.\ext@figure}{\@listoffigures}{\@starttoc{\ext@figure}}  
487 \fi  
488 \ifnotables\else  
489 \IfFileExists{\jobname.\ext@table}{\@listoftables}{\@starttoc{\ext@table}}  
490 \fi  
create clear page  
491 \clearpage  
reset to normal header dimensions  
492 \@normalheaderdims  
create clear page  
493 \clearpage  
end single spacing  
494 \end{singespacing}
```

10.16 Working Draft Front Matter

```
\@makedraftcover Here we call the previously defined pages with the exception of using the draft  
cover instead of the Full cover and the omission of the table of contents.  
495 \def\@makedraftcover{  
page break  
496 \clearpage  
blank page  
497 \thispagestyle{empty}  
start line numbers for drafts  
498 \linenumbers
```

```

begin center justification
499 \begin{center}
02.5 in vertical space
500 \vspace*{0.25in}
call document string in large font
501 {\large \@upperpapertype} \\
begin single spacing
502 \begin{singlespacing}
call the cover title
503 {\large \@covertitle} \\
vertical space
504 \vspace*{\baselineskip}
state the draft date.
505 Draft of \@longdraftdate \\
call the author string.
506 \@author
end single spaceing
507 \end{singlespacing}
end center justification
508 \end{center}
small font
509 {\small
begin single spacing
510 \begin{singlespacing}
place the abstract header
511 \begin{center}ABSTRACT\end{center}
call the abstract string.
512 {\footnotesize \par\@abstract}
vertical fill
513 \vfill
begin center justification
514 \begin{center}
suppress indenting
515 \noindent
call disclaimer
516 \@disclaimer\\
end center justification
517 \end{center}
end single spacing
518 \end{singlespacing}}
clear page
519 \clearpage

```

10.17 Typeset the appropriate frontmatter

```
520 \def\maketitle{  
521 \ifdraftcopy  
522 \inflatedraft  
523 @maketitlepages  
524 \else  
525 \ifcommitedraft  
526 @maketitlepages  
527 \else  
528 @makedraftcover  
529 \pagenumbering{roman}  
530 \listoftodos\clearpage  
531 \tableofcontents  
532 \ifnofigures\else  
533 \IfFileExists{\jobname.\ext@figure}{\@listoffigures}{\@starttoc{\ext@figure}}  
534 \fi  
535 \ifnotables\else  
536 \IfFileExists{\jobname.\ext@table}{\@listoftables}{\@starttoc{\ext@table}}  
537 \fi  
538 \fi  
539 \fi  
540 \else  
541 @maketitlepages  
542 \fi  
543 \pagestyle{plain}  
544 \ifjustified\else\RaggedRight\fi  
545 \pagenumbering{arabic}  
546 \setcounter{page}{1}}
```

10.18 General Heading Formatting

page headings

```
547 \def\@footlines#1{\hbox{to}\textwidth{#1}}  
548 \ifbound  
549 \def\@footer{\hfill\rm\thepage}  
550 \else  
551 \def\@footer{\hfil\rm\thepage\hfil}  
552 \fi
```

define the toc chapter and page labels for first page

```
553 \def\ps@tocheadings{  
554 \def\@oddfoot{\@footlines{\@footer}}  
555 \def\@oddhead{}  
556 \let\@evenfoot\@oddfoot  
557 \let\@evenhead\@oddhead}
```

define the toc, tof, and lot labels for additional pgs.

```
558 \def\ps@tocextraheadings{  
559 \def\@oddfoot{\@footlines{\@footer}}  
560 \def\@oddhead{{\hbox{to}\textwidth{Chapter\hfil{Page}}}}  
561 \def\@evenfoot\@oddfoot  
562 \def\@evenhead{{\hbox{to}\textwidth{Chapter\hfil{Page}}}}  
563 \textheight 620pt  
564 \headheight 14pt  
565 \headsep 14pt}
```

```

566 \def\ps@lcoextraheadings{%
567 \def\@oddfoot{\@footlines{\@footer}}
568 \def\@oddhead{{\hbox to\textwidth{Figure\hfil{Page}}}}
569 \def\@evenfoot\@oddfoot
570 \def\@evenhead{{\hbox to\textwidth{Figure\hfil{Page}}}}
571 \textheight 620pt
572 \headheight 14pt
573 \headsep 14pt}
574 \def\ps@lotextraheadings{%
575 \def\@oddfoot{\@footlines{\@footer}}
576 \def\@oddhead{{\hbox to\textwidth{Table\hfil{Page}}}}
577 \def\@evenfoot\@oddfoot
578 \def\@evenhead{{\hbox to\textwidth{Table\hfil{Page}}}}
579 \textheight 620pt
580 \headheight 14pt
581 \headsep 14pt}
redefine the plain page headers and footers for bound option.
582 \def\ps@plain{%
583 \def\@oddfoot{\@footlines{\@footer}}
584 \def\@oddhead{}%
585 \let\@evenfoot\@oddfoot
586 \let\@evenhead\@oddhead
587 \textheight 620pt
588 \headheight 14pt
589 \headsep 14pt}

```

10.18.1 TOC,TOF, etc... Headers

```

590 \def\@tableofcontents{%
591 \clearpage
592 \markboth{Chapter}{Chapter}
593 \thispagestyle{tocheadings}
594 \@startchapter{TABLE OF CONTENTS}
595 \vspace*{14pt}
596 \noindent
597 \makebox[\textwidth][1]{Chapter \hfill Page}
598 \pagestyle{tocextraheadings}\@mysingle\@starttoc{toc}%
599 \def\@listoffigures{%
600 \clearpage
601 \markboth{Figure}{Figure}
602 \thispagestyle{tocheadings}
603 \@startchapter{LIST OF FIGURES}
604 \vspace*{14pt}
605 \noindent
606 \makebox[\textwidth][1]{Figure \hfill Page}
607 \pagestyle{lofextraheadings}\@mydouble\@starttoc{\ext@figure}%
608 \def\@listoftables{%
609 \clearpage
610 \markboth{Table}{Table}
611 \thispagestyle{tocheadings}
612 \@startchapter{LIST OF TABLES}
613 \vspace*{14pt}
614 \noindent
615 \makebox[\textwidth][1]{Table \hfill Page}

```

```
616 \pagestyle{lotextraheadings}\@mydouble\@starttoc{\ext@table}
```

10.19 Table of Contents Formatting

Here we set up the formatting for the TOC, TOF, etc...

```
617 \if@gsmodern
618   \def\numberline#1{\hbox to\@tempdima{\hskip 0.75em #1\hfil}}
619 \else
620   \def\numberline#1{\hbox to\@tempdima{\hfil #1\hskip 0.75em}}
621 \fi
622 \def\@dottedtocline#1#2#3#4#5{
623   \ifnum #1>\c@tocdepth
624 \else
625     \vskip \z@ \oplus.2\p@
626     {\leftskip=#2\relax \rightskip=\@tocrmarg
627 \parfillskip=-\rightskip
628       \parindent=#2\relax \hangindent=1.5em
629 \singlespace\@afterindenttrue
630       \interlinepenalty\@M
631       \leavevmode
632       \@tempdima=#3\relax
633       \advance\leftskip by\@tempdima \null\nobreak
634 \hskip -\leftskip
635       {#4}\nobreak
636       \leaders\hbox{$\m@th
637         \mkern \dotsep mu\hbox{.}\mkern
638 \dotsep
639         mu$}\hfill
640       \nobreak
641       \hb@xt@\opnumwidth{\hfil\normalfont
642 \normalcolor #5}
643       \par}
644 \fi}
645 \def\@sechack{\relax}
646 \def\l@chapter#1#2{
647   \pagebreak[3]\par\vskip\baselineskip
648   \@dottedtocline{0}{0in}{0.5in}{#1}{#2}
649   \nopagebreak\par
650   \gdef\@sechack{\vskip\baselineskip\gdef\@sechack{\relax}}
651 \if@gsmodern
652   \def\l@section{\@sechack\@dottedtocline{1}{0.5in}{0.5in}}
653 \else
654 \if@numsections
655   \def\l@section{
656     \gdef\@sechack\@dottedtocline{1}{0.5in}{0.5in}}
657 \else
658   \def\l@section{
659     \gdef\@sechack\@dottedtocline{1}{0.75in}{0.5in}}
660 \fi
661 \fi
662 \def\l@figure{\@dottedtocline{0}{0in}{0.5in}}%
663 \def\l@table{\@dottedtocline{0}{0in}{0.5in}}
```

10.20 The Chapter Headings Formatting

\@chapapp Here we define the chapter heading format and all the conditionals for appendices etc...

```
664 \def\@chapapp{CHAPTER}
665 \renewcommand{\thechapter}{\arabic{chapter}}
666 \def\@makechapterhead#1{{
667 \centering
668 \ifnum \c@section>\m@ne
669 \@chapapp{}
670 \if@appendices
671 \ifnum 1=\aux@appendices
672 \ifnum 1=\c@chapter\else
673 \typeout{warning:
674 extra appendices; rerun LaTeX}
675 \thechapter
676 \fi
677 \else
678 \thechapter
679 \fi
680 \else
681 \Roman{chapter}
682 \fi
683 \par
684 \vskip 2ex
685 \fi
686 \ifsc\textsc{#1}\else\uppercase{#1}\fi\par\nopagebreak\vskip 4ex}}
687 \def\@makeschapterhead#1{{
688 \startchapter{\ifsc\textsc{#1}\else\uppercase{#1}\fi}\par
689 \nopagebreak\vskip 4ex}}
690 \def\chapter{
691 \clearpage\global\@topnum\z@
692 \@afterindenttrue\secdef\@chapter\@schapter}
693 \def\@chapter[#1]{\stepcounter{chapter}
694 \protected@edef\@currentlabel
695 {\csname p@chapter\endcsname\Alph{chapter}}}
696 \if@appendices
697 {\csname p@chapter\endcsname\Roman{chapter}}
698 \else
699 \protected@edef\@currentlabel
700 {\csname p@chapter\endcsname\Roman{chapter}}
701 \fi
702 \typeout{[#1]}
703 \if@appendices
704 \ifnum\c@chapter=1
705 \ifnum\aux@appendices=1
706 \addtocontents{toc}{%
707 \protect\pagebreak[3]\protect\vspace{3ex}
708 \protect\nopagebreak\protect\noindent
709 {}}\protect\nopagebreak
710 \else
711 \addtocontents{toc}{%
712 \protect\pagebreak[3]\protect\vspace{3ex}
713 \protect\nopagebreak\protect\noindent}
```

```

714 {APPENDICES}\protect\nopagebreak}
715 \fi
716 \fi
717 \fi
718 @emit{\string\global\string\aux@appendices=\number\c@chapter}
719 \ifnum \c@secnumdepth >\m@ne
720 \if@appendices
721 \ifnum\aux@appendices=1
722 \addcontentsline{toc}{chapter}
723 {APPENDIX:
724 \ifsc{textsc{\#1}}\else\uppercase{\#1}\fi}
725 \else\ifnum\aux@appendices > 1
726 \addcontentsline{toc}{chapter}
727 {\protect\number@appendix{\number\c@chapter
728 }{\Alph{chapter}.}}
729 \ifsc{textsc{\#1}}\else\uppercase{\#1}\fi}
730 \fi\fi
731 \else
732 \addcontentsline{toc}{chapter}
733 {\protect\numberline{\Roman{chapter}.}}\ifsc{textsc{\#1}}
734 \else\uppercase{\#1}\fi}
735 \fi
736 \fi
737 \chaptermark{\ifsc{textsc{\#1}}\else\uppercase{\#1}\fi.}
738 \if@twocolumn
739 @topnewpage[\@makechapterhead{\ifsc{textsc{\#2}}
740 \else\uppercase{\#2}\fi}]
741 \else
742 @makechapterhead{\ifsc{textsc{\#2}}\else\uppercase{\#2}\fi}
743 @afterheading
744 \fi}
745 \def@schapter#1{
746 \if@twocolumn
747 @topnewpage[\@makeschapterhead{\ifsc{textsc{\#1}}\else
748 \uppercase{\#1}\fi}]
749 \else
750 \@makeschapterhead{\ifsc{textsc{\#1}}\else\uppercase{\#1}\fi}
751 @afterheading
752 \fi}
753 \def\chapter{
754 \clearpage\global@topnum\z@
755 @afterindenttrue \secdef@chapter@schapter}
756 \def@chapterline#1{\centerline{\#1}}
757 \def@startchapter#1{\@chapterline{\#1}}

```

10.21 Section Headings formatting

\@underbar Here we define the code for a package specific underlining environment.

```
758 \def@\underbar#1{{\$\setbox0=\hbox{\#1}\dp0=0pt\underline{\box0}\$}}
```

\@startsection Here we define the section command with all its associated conditionals.

```
759 \def@\startsection#1#2#3#4#5#6{\if@noskipsec \leavevmode \fi
760 \par \tempskipa #4\relax
```

```

761      \@afterindenttrue
762      \ifdim \tempskipa < \z@ \tempskipa - \tempskipa \@afterindentfalse\fi
763      \if@nobreak
764 \everypar{ }
765 \else
766      \addpenalty{\secpenalty}\addvspace{\tempskipa}
767 \fi
768 \@ifstar{\@sect{\#2}{\#3}{\#4}{\#5}{\#6}}{\@dblarg{
769 \@sect{\#1}{\#2}{\#3}{\#4}{\#5}{\#6}}}
770 \def\@sect{\#1\#2\#3\#4\#5\#6[\#7]\#8{
771      \if@gsmodern
772          \refstepcounter{\#1}
773          \edef\svsec{\csname the\#1\endcsname\sim\sim}
774      \else
775 \if@numsections
776          \refstepcounter{\#1}
777          \edef\svsec{\csname the\#1\endcsname\sim\sim}
778      \else
779          \ifnum #2>\c@shownumdepth
780              \def\svsec{ }
781 \else
782              \edef\svsec{\csname the\#1\endcsname\hskip 1em }
783 \fi
784          \ifnum #2>\c@secnumdepth\else\refstepcounter{\#1}\fi
785 \fi
786 \fi
787      \tempskipa \relax
788      \ifdim \tempskipa > \z@
789          \if@gsmodern
790              \begingroup
791                  \changefrom{\bf\relax\hskip #3\relax}{\bf\svsec\#8}
792                  \interlinepenalty \OM
793              \endgroup
794          \else
795 \if@numsections
796              \begingroup \relax
797                  \changefrom{\#6\relax\hskip #3\relax}{%
798 \ifnum #2=1 \bf\else
799 \ifnum #2=3 \it\else\fi\fi
800 \interlinepenalty \OM
801             \ifnum #2=1 \svsec\#8\else
802 \ifnum #2=2 \underbar{\#8}\else\#8\fi\fi
803             \par}
804             \interlinepenalty \OM
805             \endgroup
806         \else
807             \begingroup \relax
808                 \changefrom{\hskip #3\relax\svsec}{%
809 \ifnum #2=1 \bf\else
810 \ifnum #2=2 \it\else\fi\fi
811 \interlinepenalty \OM
812             \ifnum #2=3 \underbar{\#8}\else \#8 \fi
813             \par}
814             \endgroup

```

```

815           \fi
816 \fi
817     \csname #1mark\endcsname{\#7}\addcontentsline{toc}{#1}{
818       \ifnum #2>\c@shownumdepth
819 \else
820 \protect\numberline{\csname the#1\endcsname}
821 \fi#7}
822 \else
823 \def\@svsechd{\#6\hskip #3\@svsec #8
824 \csname #1mark\endcsname{\#7}\addcontentsline{toc}{#1}{
825 \ifnum #2>\c@shownumdepth
826 \else
827           \protect\numberline{\csname the#1\endcsname}
828 \fi#7}
829 \fi
830 \@xsect{\#5}
831 \def\@ssect#1#2#3#4#5#6{\@tempskipa #4\relax
832 \ifdim\@tempskipa>z@%
833 \begingroup #5\@hangfrom{\hskip #2}{\interlinepenalty \OM
834 \ifodd #1
835 \ifnum #1 >3 \@underbar{\#6} \hfil
836 \else
837           \@underbar{\#6}
838 \fi
839 \else
840           #6
841 \fi \par}\endgroup
842 \else
843 \def\@svsechd{\#5\hskip #2\relax {\#6}}
844 \fi
845 \@xsect{\#4}}

```

10.21.1 Numbering Hierarchies

\section Here we define the numbering hierarchy for the various numbering modes.

```

846 \if@gsmmodern
gsmmodern sets hierarchy to be numbered C.sec.sub.sub.s
847 \def\section{\@startsection{section}{1}{\z@}{3ex}{2ex}{}}
848 \renewcommand{\thesection}{\thechapter.\arabic{section}.}
849 \def\subsection{\@startsection{subsection}{2}{\z@}{3ex}{2ex}{}}
850 \renewcommand{\thesubsection}{\thesection\arabic{subsection}.}
851 \def\subsubsection{\@startsection{subsubsection}{3}{\z@}{3ex}{2ex}{}}
852 \renewcommand{\thesubsubsection}{\thesubsection\arabic{subsubsection}.}
853 \renewcommand{\theequation}{Equation\ \thechapter.\arabic{equation}.}
854 \else
855 \if@numsections
numsections numbers C.sect.
856 \def\section{\@startsection{section}{1}{\z@}{3ex}{2ex}{\centering}}
857 \renewcommand{\thesection}{\thechapter.\arabic{section}.}
858 \def\subsection{\@startsection{subsection}{2}{\z@}{3ex}{2ex}{\centering}}
859 \renewcommand{\thesubsection}{}
860 \def\subsubsection{\@startsection{subsubsection}{3}{\z@}{2ex}{2ex}{\centering}}

```

```

861 \renewcommand{\thesubsubsection}{}
862 \renewcommand{\theequation}{Equation\ \thechapter.\arabic{equation}.}
863
864 \else
865 \def\section{\@startsection{section}{1}{\z@}{3ex}{2ex}{\centering}}
866 \def\subsection{\@startsection{subsection}{2}{\z@}{3ex}{2ex}{\centering}}
867 \def\subsubsection{\@startsection{subsubsection}{3}{\z@}{2ex}{2ex}{\centering}}
868 \fi
869 \fi

```

10.22 Bibliography Formatting

\@bibsection Here we create the bibsection command from a chapter and add an entry to the TOC.

```

870 \newcommand{\@bibsection}[1]{
871 \clearpage
872 \addcontentsline{toc}{chapter}{#1}
873 \@startchapter{#1}
874 \ifnum \c@citation > 0
875 \centering
876 \setlength\fboxsep{10pt}
877 \setlength\fboxrule{2pt}
878 \begin{center}
879 \framebox[1\columnwidth]{\parbox{0.95\columnwidth}{\textcolor{red}{%
880 \centering\textbf{There are unresolved citation issues!} \\*%
881 Number of unresolved citations: \arabic{citation}.} \\*%
882 }}}
883 \end{center}
884 \fi
885 \singlespacing
886 @mybibsingle
887 \vspace*{3ex}}

```

\thebibliography Here we build the bibliography using the bibsection command.

```

888 \def\thebibliography#1{
889 \@bibsection{REFERENCES CITED}\list
890 {[ \arabic{enumi}]}{\labelwidth\z@ \itemindent-\parindent
891 \leftmargin\parindent
892 \interlinepenalty\QM
893 \usecounter{enumi}}
894 \def\newblock{\hspace{.11em} plus .33em minus -.07em}
895 \sloppy
896 \raggedright
897 \sfcode`.=1000\relax}
898 \let\endthebibliography=\endlist
899 %%\newcommand{\formatbib}{%
900 %% \addcontentsline{toc}{chapter}{REFERENCES CITED}
901 %% \renewcommand\bibname{REFERENCES CITED}}
902 \AtEndOfClass{\renewcommand\bibname{REFERENCES CITED}}

```

10.23 Float Labels

\thefigure Formatting for the the floats.

```

903 \def\thefigure{\@arabic\c@figure}
904 \def\fnum@figure{FIGURE \thefigure.}
905 \def\thetable{\@arabic\c@table}
906 \def\fnum@table{TABLE \thetable}

Table and figure numbering by chapter or continuous

907 \if@gsmodern
908 \else
909 \def\cl@chapter{\@elt{section}\@elt{footnote}\@elt{equation}}
910 \fi

gsmodern sets figures and tables to be numbered C.Fig. and C.Tab.

911 \if@gsmodern
912 \renewcommand{\thefigure}{\thechapter.\arabic{figure}.}
913 \renewcommand{\thetable}{\thechapter.\arabic{table}.}
914 \renewcommand{\theequation}{Equation\ \thechapter.\arabic{equation}.}
915 \fi

```

10.24 Italicized Description Labels

\descriptionlabel Setting italics labels

```

916 \renewcommand{\descriptionlabel}[1]{
917 \hspace{\labelsep}\textit{#1}}

```

10.25 Appendix Formatting

\appendix Define the appendix and set up the formatting for the chapter heading.

```

918 \newif\if@appendices
919 \newcount\aux@appendices
920 \def\number@appendix#1#2{
921 \ifnum 1=\aux@appendices
922 \ifnum 1=#1
923 {\protect\hspace*{0.5in}}
924 \else
925 \numberline{#2}
926 \fi
927 \else
928 \numberline{#2}
929 \fi}
930 \def\appendix{
931 \par
932 \setcounter{chapter}{0}
933 \def\@chapapp{\uppercase{appendix}}
934 \def\thechapter{\Alph{chapter}}
935 \c@appendicestrue}

```

10.26 Correction of Spacing Problems

... Not really sure what this code does. It is legacy form an earlier version.

```

\@savdim
936 \ifx\@savdim\undefined
937 \let\@savdim\@savsk

```

```

938 \newskip\@savsk
939 \fi

\@bsphack
940 \def\@bsphack{\relax
941 \ifmmode
942 \else
943 \@savsk\lastskip
944 \@savesf
945 \ifhmode
946 \spacefactor
947 \else
948 \lastpenalty@savdim\prevdepth\removelastskip%
949 \fi
950 \fi}

\@esphack
951 \def\@esphack{\relax
952 \ifmmode
953 \else\ifvmode
954 \penalty\if@nobreak\@M
955 \else\if@inlabel\@M
956 \else\if@noskipsec\@M
957 \else\@savesf
958 \fi
959 \fi
960 \fi
961 \prevdepth@savdim\vskip\@savsk
962 \else
963 \spacefactor@savesf\relax
964 \ifdim\@savsk>\z@\ignorespaces
965 \fi
966 \fi
967 \fi}

```

10.27 Environment Refinements

```

\@@begintheorem
968 \def\@@begintheorem#1#2#3{\noindent
969 \list{}{\rightmargin=\leftmargin
970 \itemindent=\leftmargin}
971 \item[\underline{#1} #2]#3\hskip
972 0pt\par\nobreak\ignorespaces}

\begintheorem
973 \def\begintheorem#1#2{
974 \@@begintheorem{#1}{#2}{}}
```

\@opargbegintheorem

```

975 \def\@opargbegintheorem#1#2#3{
976 \@@begintheorem{#1}{#2}{ (#3)}}
```

```

\@qed
977 \def\@qed{{\unskip\nobreak
978 \hfil\penalty50\hskip1em\null\nobreak\hfil
979 \qedsymbol\parfillskip\z@\finalhyphendemerits0\par}}


\@endtheorem
980 \def\@endtheorem{\expandafter
981 \ifx\csname qedsymbol\endcsname\relax
982 \else\@qed\fi\endlist}

qedbox
983 \def\qedbox{{\mathsurround\z@\Box$}}
984 \let\labelitemi=\labelitemii
985 \let\labelitemii=\labelitemiii
986 \let\labelitemiii=\labelitemiv
987 \catcode`*=11
988 \let\itemize*=\enumerate
989 \let\enditemize*=\endenumerate
990 \makeother*
991 \let\@itemize=\itemize

\itemize
992 \def\itemize{
993 \typeout{Warning: Itemize
994 deprecated by Grad. School}
995 \global\let\itemize=\@itemize
996 \itemize}

quote*
997 \newenvironment{quote*}
998 {\list{}{\rightmargin\leftmargin}
999 \item\relax}
1000 {\endlist}

quote
1001 \renewenvironment{quote}
1002 {\begin{quote*}\setstretch{1.7}}
1003 {\end{quote*}}

```

10.28 Reference Pages

```

\pagesref
1004 \newif\if@pagesspecial
1005 \newcommand{\pagesref}[5]{
1006   \if@pagesspecialtrue
1007     \expandafter\ifx\csname r@\#1\endcsname\relax
1008       \if@pagesspecialfalse\else\fi
1009     \expandafter\ifx\csname r@\#2\endcsname\relax
1010       \if@pagesspecialfalse\else\fi
1011     \if@pagesspecial
1012       \tempcnta=\pageref{#1}
1013       \tempcntb=\pageref{#2}

```

```

1014 \ifnum\@tempcnta=\@tempcntb\else\@pagesspecialfalse\fi
1015 \if@pagesspecial
1016 \ifnum\@tempcnta=\c@page
1017 {#5}
1018 \else
1019 \mbox{{\#3}\pageref{#1}}
1020 \fi
1021 \fi
1022 \fi
1023 \if@pagesspecial
1024 \else
1025 \mbox{{\#4}\pageref{#1}--\pageref{#2}}
1026 \fi}

```

\pages

```

1027 \newcommand{\pages}[2]{\pagesref{#1}{#2}}
1028 {p.\hspace*{0.2em}}{pp.\hspace*{0.2em}}{this page}

```

</class>

11 Change History

2.5	v2.0c
General: Major restructuring of the CV area to allow for a more LaTeX-like experience. Borrowing code ideas from alternate physics LaTeX Code. 19, 20	General: Updated draftcopy option. Added new features and tuned others. Added the <code>ednote</code> command (mooched from the 1.0 example documents) with some modifications. Added the <code>HERE</code> command (mooched from the 1.0 example documents) with some modifications. Added the <code>needref</code> command. Added support for draft option in graphics package (figures show bounding boxes rather than figures in draftcopy mode). <code>varioref</code> support corrected. 1
v1.0	
General: Everything previous to 2009/07/24 1	
v2.0a	
General: Initial work started. Considering all previous versions "1.0." Cleaning up comments updating out dated package used and added packages to provide new functionality. Removed support for "tech report." Removed <code>normalspace</code> command, will use <code>setspace</code> options from now on. Updated the chair and advisor listings to be more general. Corrected a formatting issue on the signature page 1	
v2.0b	
General: Removed outdated caption.cls support. Cleaning up the error codes during the compile. 1	
v2.0d	
	General: Refined editing tools to only appear in editing mode and not cause errors during final typesetting. 1
v2.0e	
	General: Created draftimages option, which sets the <code>includegraphics</code> command in graphicx to "draft" mode. 1
v2.0f	
	General: Started cleaning up the comments and logic hierarchies. Using Tabs not spaces for nest-

ing.	1	all draft modes.	1
v2.0g		General: Corrected comments from the UO graduate school. Title Page: Title double spaced. No hyphenation throughout (using hyphenation penalties). Suppressed widows and orphans. CV: Rolled Grants into Awards and Honors . TOC: Set the "Chapter" column heading to appear on extra TOC pages. Corrected References to be single spaced with 1 line between each entry. Correct References problem with TOC, spacing, and formatting. (found to be a conflict with chemstyle). <code>gsmmodern</code> set to be bold sections rather than underlined to prevent obscuring subscripts.	1
v2.0h		General: Corrected comments from UO graduate school: Corrected chapter number spacing in TOC/TOT/TOF. Corrected fonts to force 12pt on final draft. Various improvements and new features: Implemented <code>cleanbreak</code> command for TOC/TOT/TOF linebreaks. Implemented <code>smallcaps</code> option for which allows small caps in the titles for use with subscripts. Refined various modes (Draft, Committee draft, etc.) added red disclaimers to all drafts implemented line numbers on draft modes added ams math files to default loading. Implemented <code>final</code> option to turn all draft modes off for dead sure.	1
v2.0i		General: Created the option <code>contnumbering</code> : Provides option of having the figure and tables numbered continuously or by chapter.	1
v2.0j		General: Fixed numbering issues with appendices. Corrected coding for <code>gsmmodern</code> to be the hierarchical level numbering. Implemented overfull hbox marking in	
v2.0k		General: Corrected conditional appendix formatting to account for the formatting difference between a singular appendix and multiple appendices. Implemented watermarking on the various draft environments. Employed <code>draftwatermark.cls</code> : Currently only places watermarks on the first page... may change this in the future. Implemented Layouts package in draft mode only: Places a schematic of the page layout after the draft copy cover	1
v2.0l		General: Added new environments <code>chem</code> and <code>Chem</code> based on a combination of amsmath equation environments and mhchem calls. <code>chem</code> is for use in short equations and uses amsmath equation environments. <code>Chem</code> is for use in long equations requiring linebreaks and uses amsmath multiline environments. Also added <code>rxn</code> : tag for cross referencing. allow for the use of typical ref commands or <code>eqref</code> from amsmath which produced parentheses	1
v2.0m		General: Reworked the editing markup to use the todonotes package. Now adds a list of editing marks and the pages before the document in draft mode.	1
v2.0n		General: Added support for lorem ipsum dummy text through the "lipsum" option in the document header. Cleaned up psuedocode.	1
v2.0o		General: Brought abstract and approval pages into compliance with new graduate student formatting guidelines.	1
v2.0p		General: Fixed comments from graduate student thesis editor. Corrected Appendix bug (somebody tied the appendix marker to the	

back flyleaf). Got the page number placement sorted out. . .	<u>1</u>	document is for personal use and is not to be confused with the of- ficial formatting (i.e. final with bound off). First version in .dtx format	<u>1</u>
v2.1		\cleanbreak: Corrected a potential error here when the command is used with the ragged right text block.	<u>15</u>
General: Tweaked gsmmodern, num- section, and default numbering schemes for sections, tables and figures.	<u>1</u>	v2.5	
v2.2		General: A significant rewrite of the CV handling.	<u>10</u>
General: Made flush left text the de- fault for the text block. Added "justified" option for full justified (LaTeX default) text block. Ad- justed the default indent to 24pt as per the GS recommendation.	<u>1</u>	Added formatbib	<u>38</u>
v2.3		changed the awards command, and turned it into a 1 entry macro.	<u>10</u>
General: added "amstex" and "chem- istry" options. amstex loads the ams packages amsthm, ams- math, and amssymb packages in the appropriate order as in- dicated by the ams-tex manual. chemistry loads mhchem and cre- ates new environments for long chemical equations as well as the "reaction" environment.	<u>1</u>	changed the degrees command, and turned it into a 1 entry macro.	<u>10</u>
v2.4		changed the experience command, and turned it into a 1 entry macro.	<u>10</u>
\@makeabstractpage: Added RaggedRight option to ab- stract.	<u>25</u>	changed the publications com- mand, and turned it into a 1 entry macro.	<u>10</u>
\@makeackpage: Added RaggedRight option to acknowledgements. . .	<u>26</u>	changed the schools command, and turned it into a 1 entry macro.	<u>10</u>
General: added bound option for formatting the document as for printing/binding. Currently this only handles 1 sided printing based on the previous dissertation class. Also ties the bound mode to the draft mode, al- lowing the printing and 3 hole punching of documents. A dis- claimer is placed on the copy- right page indicating that the		v2.5.1	
v2.5.1		General: Added natbib if statement	<u>12</u>
\@makeabstract: Added RaggedRight option to abstract.	<u>242, 397, 512</u>	Added natbib option	<u>12</u>
\@begintheorem:	<u>968, 974, 976</u>	Added new single space command for the bibliography	<u>20</u>
\@beginproof:	<u>968, 974, 976</u>	Removed formatbib command and chaned single space call. .	<u>38</u>
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\@endproof:	<u>968, 974, 976</u>	v2.5.3	
\@endquotation:	<u>968, 974, 976</u>	General: Corrected block quotes .	<u>40</u>
\@endquotation:	<u>968, 974, 976</u>	v2.5.4	
\@endquotation:	<u>968, 974, 976</u>	General: Corrected formatting in ex- tra tof and lot pages	<u>31</u>

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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.

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