

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 `uthesis` 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

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 section²Second, the package `natbib` is now required and loaded 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

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`
- `booktabs`
- `hydoc`
- `listings`
- `lmodern`
- `microtype`

3 Requirements

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

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

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 $\text{T}_{\text{E}}\text{X}$ 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` $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$ 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 \LaTeX default, which is full justification. The UOGS does not generally approve of full justification, but they will accept it in this case since \LaTeX does it properly.
<code>copyright</code>	Includes the copyright page.
<code>numsections</code>	Provides the option of numbered sections.
<code>gsmodern</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 subsection 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>mchem</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.

smallcaps 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.

bound The **bound** 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.

6 Manuscript macros

6.1 General macros

\cleanbreak 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:

```
\chapter[This is the use of the \linebreak...]{This is the use of
the...}
```

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
\etc commands assume that it is desired for these phrases to be italicized and provide
\etal proper punctuation after the latin phase. The code is taken from the Chemstyle
\eg 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.

\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:somernxn}
```

`\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 `\\` to indicate where the equation should be broken. In this reaction, the line will be broken following the reaction arrow (`->` in the code).

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

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. `uothesis` is set up to support this method of working. The inclusion of the `"\% !TEX root =\langle path to root file \rangle"` 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,
gsmodern]{uothesis}

\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\\}
\graddean{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
\formatbib
\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>\langle full name \rangle & \langle member type \rangle \\</code> " (see example below). This list can be of arbitrary length and is formatted using a table. <pre>\committee{Dr. Person 1 & Member \\ Dr. Person 2 & Member \\ Dr. Person 3 & Outside Member \\ Dr. Person 4 & Honorary Member \\}</pre>
<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.

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

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

`\dedication` Optional, small text block.

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:

```
\school{University of Somewhere, City, State}
\school{University of Somewhere Else, City, State}
\school{A State School, City, State}
```

`\degree` List of the education of the author. Each degree has its own `\degree{}` entry. Each entry should be formatted so: $\langle full\ degree\ name \rangle$ in $\langle field \rangle$, $\langle year \rangle$, $\langle school\ name \rangle$. An example is below:

```
\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.}
```

`\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 *exactly* 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 call⁶. 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 BIB_TE_Xcompile log?

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

⁶Yes, this is a little redundant, but it was done this way to avoid any potential conflicts with BIB_TE_X

- 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.)?
- 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} [2010/12/21 v2.4 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\ifcommitteedraft
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\if@dissertation
28 \newif\if@copyright
29 \newif\if@gsmodern
30 \newif\if@numsections
31 \newif\if@contnumb
32 \newif\if@draftimage
```

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

```
33 \DeclareOption{dissertation}{\@dissertationtrue\thesistrue}
34 \DeclareOption{msthesis}{\@dissertationfalse\thesistrue}
35 \DeclareOption{draftimages}{\draftimagetrue\PassOptionsToPackage{draft}{graphicx}}
36 \DeclareOption{draftcopy}{\drafttrue\draftcopytrue\boundtrue}
37 \DeclareOption{committeedraft}{\drafttrue\committeedrafttrue}
38 \DeclareOption{latedraft}{\drafttrue\latedrafttrue}
39 \DeclareOption{copyright}{\@copyrighttrue}
40 \DeclareOption{gsmodern}{\@gsmodertrue}
```

```

41 \DeclareOption{numsections}{\@numsectionstrue}
42 \DeclareOption{amstex}{\amstextrue}
43 \DeclareOption{chemistry}{\chemtrue\amstextrue}
44 \DeclareOption{smallcaps}{\sctrue}
45 \DeclareOption{justified}{\justifiedtrue}
46 \DeclareOption{cheqns}{}
47 \DeclareOption{final}{\draftcopyfalse\draftimagefalse
48 \committeedraftfalse\latedraftfalse\finaltrue}
49 \DeclareOption{lipsum}{\lipsumtrue}
50 \DeclareOption{bound}{\boundtrue}

```

Finally, we process the options.

```
51 \ProcessOptions
```

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

```

52 \ifthesis\else
53 \typeout{warning: Neither msthesis nor dissertation specified}
54 \fi

```

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

```

55 \ifbound
56 \typeout{PAGE FORMAT CHANGED FOR BINDING AND PRINTING}
57 \typeout{This format DOES NOT COMPLY with University of Oregon Guidelines}
58 \typeout{For personal use only!}
59 \fi

```

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

```

60 \iflatedraft\PassOptionsToClass{12pt,draft}{report}\fi
61 \ifcommitteedraft\PassOptionsToClass{12pt,draft}{report}\fi
62 \ifdraftcopy\PassOptionsToClass{10pt,draft}{report}
63 \PassOptionsToClass{draft}{todonotes}\fi
64 \iffinal
65 \ifbound
66 \PassOptionsToClass{12pt,twoside}{report}
67 \else
68 \PassOptionsToClass{12pt}{report}
69 \fi\fi

```

Now we load the L^AT_EXreport class primitive.

```
70 \LoadClass{report}
```

10.2 Required Packages

Call the required packages for uothesis.

```

71 \RequirePackage{float}
72 \RequirePackage{subfig}
73 \RequirePackage[dvipsnames]{xcolor}
74 \RequirePackage{graphicx}
75 \RequirePackage{setspace}
76 \RequirePackage{xspace}
77 \RequirePackage[left,pagewise]{lineno}
78 \RequirePackage{layouts}
79 \RequirePackage[colorinlistoftodos]{todonotes}

```

```

80 \RequirePackage{ragged2e}
81 \captionsetup{labelsep=space}
82 \setlength\RaggedRightRightskip{0pt plus 1cm}
83 \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`.

```

84 \ifchem
85 \RequirePackage[version=3]{mhchem}
86 \fi

```

amstex call amstex packages if option enabled

```

87 \ifamstex
88 \RequirePackage{amsmath,amsthm,amssymb}
89 \fi

```

lipsum call lipsum package if option enabled

```

90 \iflipsum
91 \RequirePackage{lipsum}
92 \fi

```

10.3.1 Draft Only Macros and Options

draftwatermark create draft watermark

```

93 \ifdraft
94 \RequirePackage{draftwatermark}
95 \newcommand{\watermark}[5]{\SetWatermarkAngle{#1}
96 \SetWatermarkLightness{#2}
97 \SetWatermarkFontSize{#3}
98 \SetWatermarkScale{#4}
99 \SetWatermarkText{\uppercase{#5}}}
100 \ifdraftcopy\watermark{45}{0.95}{5cm}{2.5}{Draft}\fi
101 \ifcommitteedraft\watermark{45}{0.95}{5cm}{2.25}{Committee Draft}\fi
102 \iflatedraft\watermark{45}{0.95}{5cm}{2.5}{Review Proof}\fi
103 \fi

```

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

```

104 \ifdraftcopy

```

\ednote Create `\ednote` command.

```

105 \newcounter{ednote}
106 \@addtoreset{ednote}{chapter}
107 \newcommand{\ednote}[1]{\stepcounter{ednote}\todo[color=blue!40,size=\scriptsize,
108 caption={NOTE \arabic{chapter}.\arabic{ednote}: #1},noprepend]%
109 {\bf\hfil N.\arabic{chapter}.\arabic{ednote}\hfil}%
110 {\textbf{\textcolor{blue}{[N.\arabic{chapter}.\arabic{ednote}]}}}}

```

`\here` Create `\here` command.

```
111 \newcommand{\here}{\textcolor{BrickRed}{\blacksquare}}\todo[inline,color=red!40,
112 size=\small,caption={\uppercase{Incomplete Section: Section \arabic{chapter}.
113 \arabic{section}}}{\hfil\textbf{\uppercase{Incomplete Section}}\hfil}}
```

`\needref` create `\needref` command.

```
114 \newcounter{citation}
115 \@addtoreset{citation}{chapter}
116 \newcommand{\needref}[1]{\stepcounter{citation}\todo[color=green!40,
117 size=\scriptsize,caption={CITE \arabic{chapter}.\arabic{citation}: #1]}
118 {\bf\hfil N.\arabic{chapter}.\arabic{citation}\hfil}
119 {\textbf{\textcolor{ForestGreen}{C.\arabic{chapter}.\arabic{citation}}}}}}
```

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.

```
120 \else
121 \newcommand{\ednote}[1]{}
122 \newcommand{\here}{}
123 \newcommand{\needref}{}
124 \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.

```
125 \newcommand{\cleanbreak}{
126 \ifjustified
127 \\\hfil
128 \else
129 \newline
130 \fi}
```

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

`reaction` Modify the reaction counter to fit formatting requirements.

```
131 \ifchem
132 \newcounter{reaction}
133 \renewcommand\thereaction{Formula\ \thechapter.\arabic{reaction}}
134 \@addtoreset{reaction}{chapter}
create new reaction tag
135 \newcommand\reactiontag{\refstepcounter{reaction}\tag{\thereaction}}
```

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

```
136 \newcommand{\chem}[2][[]]{\begin{equation}\cee{#2}%
137 \ifx\@empty#1\@empty\else\label{#1}\fi\reactiontag\end{equation}}
```

```

\Chem Create new Chem environment (enables line breaks)
138 \newcommand{\Chem}[2] [] {\begin{multline}\cee{#2}%
139 \ifx\@empty#1\@empty\else\label{#1}\fi\reactiontag\end{multline}}
140 \fi

141 \newcommand*{\cst@xspace}{\expandafter\xspace}
142 \newcommand*{\cst@latin}{\expandafter\emph}
143 \newcommand*{\etc}{\@ifnextchar.{\cst@etc}{\cst@etc.\cst@xspace}}
144 \newcommand*{\invacuo}{\cst@latin{in vacuo}\cst@xspace}
145 \newcommand*{\etal}{\@ifnextchar.{\cst@etal}{\cst@etal.\cst@xspace}}
146 \newcommand*{\eg}{\cst@eg.}
147 \newcommand*{\ie}{\cst@ie.}
148 \newcommand*{\cst@etal}{\cst@latin{et~al}}
149 \newcommand*{\cst@etc}{\cst@latin{etc}}
150 \newcommand*{\cst@ie}{\cst@latin{i.e}\spacefactor999\relax}}
151 \newcommand*{\cst@eg}{\cst@latin{e.g}\spacefactor999\relax}}

```

10.5 Internal Variables and Commands

```

\normalspace Define a single spacing environment.
152 \newenvironment{normalspace}{\begin{singlesspacing}}{\end{singlesspacing}}

\@mydouble Define special double space environment.
153 \def\@mydouble{\endsinglespace\large\normalsize\setstretch{1.7}}

\@mysinglespace Define second special single space environment.
154 \def\@mysingle{\singlespace\large\normalsize\setstretch{1.7}}

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

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

Define thesis and dissertation strings for abstract page
157 \if@dissertation
158   \ifdraftcopy
159     \gdef\@cappapertype{Dissertation Draft}
160   \else
161     \gdef\@cappapertype{Dissertation}
162   \fi
163 \else
164   \ifdraftcopy
165     \gdef\@cappapertype{Thesis Draft}
166   \else
167     \gdef\@cappapertype{Thesis}
168   \fi
169 \fi
170 \xdef\@upperpapertype{\uppercase{\@cappapertype}}
171 \xdef\@papertype{\lowercase{\@cappapertype}}

```

```

\@draftstring Define draft copy header string.
172 \ifdraftcopy
173   \def\@draftstring{{\sc Draft of} \@draftdate}}
174 \else
175   \def\@draftstring{}
176 \fi

\@disclaimer Define draft copy disclaimer for title pages.
177 \def\@disclaimer{
178   \ifcommitteedraft\textcolor{red}{\textbf{\uppercase{committee draft}}}\fi
179   \iflatedraft\textcolor{red}{\textbf{\uppercase{review proof}}}\fi
180   \ifdraftcopy\textcolor{red}{\textbf{\uppercase{editing draft}}}\fi\\
181   \vspace*{0.5in}
182   \textcolor{red}{\textbf{\uppercase{This is a draft copy for review
183     and editing purposes only!}}}}
184   \vspace*{10pt}
185   \setlength\fbboxsep{10pt}
186   \setlength\fbboxrule{2pt}
187   \framebox[1\columnwidth]{\parbox{0.95\columnwidth}{\textcolor{black}
188     {\textbf{This draft format in no way complies with the University
189     of Oregon Style Graduate School Style Guide for theses or dissertations.
190     This draft may employ 10 point fonts for paper conservation, line numbering
191     for ease of editing, or watermarking and editing notations; all of which violate
192     the Graduate School Style Guide for final documents. See the uothesis.cls
193     documentation for instructions on producing a properly formatted document.}}}}
Define bound disclaimer for copyright page
194 \def\@bounddisclaimer{%
195   \parbox{0.75\textwidth}{\centering
196     \begin{spacing}{0.5}
197     {\tiny This document is for the the personal use of the author and does not comply
198     with the University of Oregon Graduate School. Please contact the University
199     of Oregon Graduate School for information on how to obtain an official copy
200     of this document.}
201     \end{spacing}}\\
202   \vfill\LaTeX
203 }

```

10.6 User Accessible Variables and Commands

10.6.1 Titles

```

\covertitle Define cover title string
204 \def\covertitle#1{\gdef\@covertitle{#1}\gdef\@uppercovertitle{\begin{doublespace}
  \uppercase{#1} \end{doublespace}}}

\abstracttitle Define abstract title string
205 \def\abstracttitle#1{\gdef\@abstracttitle{#1}\gdef\@upperabstracttitle{\uppercase{#1}}}

```

10.6.2 Author Strings

```

\author Define author command
206 \def\author#1{\gdef\@author{#1}\gdef\@upperauthor{\uppercase{#1}}}

```


`\narrowauthor` Define narrow author
207 `\def\narrowauthor#1{\gdef\@narrowauthor{#1}\gdef\@uppernarrowauthor{\uppercase{#1}}}`

10.6.3 School Information and Examination Committee

`\department` Define department
208 `\def\department#1{\gdef\@department{#1}}`

`\narrowdepartment` Define narrow department
209 `\def\narrowdepartment#1{\gdef\@narrowdepartment{#1}}`

`\advisor` Define advisor
210 `\def\advisor#1{\gdef\@advisor{#1}}`

`\chair` Define chair
211 `\def\chair#1{\gdef\@chair{#1}}`

`\cochair` Define cochair for disseration
212 `\newif\if@cochair`
213 `\if@dissertation`
214 `\def\cochair#1{\gdef\@cochair{#1}\@cochairtrue}`
215 `%Define the committee`
216 `\def\committee#1{\gdef\@committee{#1}}`
217 `\fi`

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

10.6.4 Degree and Graduation

`\degreetype` Define degree type
219 `\def\degreetype#1{\gdef\@degree{#1}}`

`\degreemonth` Define degree month
220 `\def\degreemonth#1{\gdef\@degreemonth{#1}}`

`\degreeyear` Define degree year
221 `\def\degreeyear#1{\gdef\@thedegreeyear{#1}}`

10.6.5 Abstract, Dedication, etc...

`\abstract` Define abstract
222 `\long\def\abstract#1{\gdef\@abstract{#1}}`

`\dedication` Define dedication
223 `\newif\if@dedication`
224 `\long\def\dedication#1{\gdef\@dedication{#1}\@dedicationtrue}`

`\acknowledge` Define acknowledgement
225 `\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`.

```
226 \def\@optional#1{\let\what=\expandafter\csname #1
227 \endcsname\ifx\what\relax\else\what\fi}
```

`\sigline`, `\Sigline` Define signature line commands

```
228 \newcommand{\@sigline}[2]{Approved: \rule{#1}{.4pt}\*[-0.25\baselineskip]{#2}}
229 \newcommand{\@Sigline}[1]{Approved: \hrule\vspace*{-\parskip}\vspace*{4pt}{#1}}
```

10.6.7 CV Internal Commands

`\cvoneline` Define single line environment for CV

```
230 \def\cvoneline#1#2{ \*[\baselineskip] {#1}: {#2}}
```

`\cvmultiline` Define multiline environment for CV

```
231 \def\cvmultiline#1#2{
232 \par\vspace{1.5\baselineskip}\noindent
233 {#1}:\*[\baselineskip]\nopagebreak
234 \indent\parbox[b]{5in}{#2}}
```

`\@cvhangindent` define CV hanging indent

```
235 \newlength{\@cvhangindent}
```

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

```
236 \setlength{\@cvhangindent}{\parindent}
237 \addtolength{\@cvhangindent}{1.5em}
238 \long\def\cvpars#1{\par #1}
239 \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 240 \def\birthplace#1{\gdef\@birthplace{#1}}
```

`\birthday` Define birthday

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

`\schools` Define educational history

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

`\degrees` Define the degrees received.

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

`\interests` Define interests

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

`\experience` Define professional experience.

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

`\awards` Define awards. (optional)
246 `\def\award#1{\expandafter\gdef\expandafter\@awards\expandafter{\@awards\cvpars{#1}}}`

`\publications` Define publications. (optional)
247 `\def\publication#1{\expandafter\gdef\expandafter\@publications\expandafter{\@publications\cvp`

10.7 Preliminary page formatting, layout, and settings

Set the text spacing to a little under double spacing.

248 `\setstretch{1.7}`

Set a standard header size

249 `\newcommand{\@normalheaderdims}{`
250 `\textheight 620pt`
251 `\headheight 14pt`
252 `\headsep 14pt}`

Set standard page margins

253 `\ifbound`
254 `\oddsidemargin 0.6in`
255 `\evensidemargin 0.6in`
256 `\textwidth 5.8in`
257 `\footskip 0.5in`
258 `\footnotesep 15pt`
259 `\parindent 24pt`
260 `\topmargin 0in`
261 `\else`
262 `\oddsidemargin 0.25in`
263 `\evensidemargin 0.25in`
264 `\textwidth 6in`
265 `\footskip 0.5in`
266 `\footnotesep 15pt`
267 `\parindent 24pt`
268 `\topmargin 0in`
269 `\fi`
270 `\@normalheaderdims`

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

271 `\def\@fromtopskip#1{`
272 `\@tempdima=#1`
273 `\advance\@tempdima by-1in`
274 `\advance\@tempdima by-\topmargin`
275 `\advance\@tempdima by-\headheight`
276 `\advance\@tempdima by-\headsep`
277 `\advance\@tempdima by-\baselineskip`
278 `\advance\@tempdima by12pt`
279 `\hbox to0pt{\nointerlineskip\vskip\@tempdima}`
280

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

281 `\setcounter{tocdepth}{1}`

Declare a new counter for section numbers

282 `\newcounter{shownumdepth}`

Show section numbers with gsmmodern.

```

283 \if@gsmmodern
284   \setcounter{@shownumdepth}{2}
285 \else

```

Show section numbers with numsection

```

286 \if@numsections
287   \setcounter{@shownumdepth}{2}
288 \else

```

Suppress section numbers in TOC and section headings

```

289   \setcounter{@shownumdepth}{0}
290   \setcounter{secnumdepth}{1}
291 \fi
292 \fi

```

Write the appendix count in the main aux file

```

293 \def\@emit#1{\if@files\immediate\write\@mainaux{#1}\fi}

```

Increase the hyphenation penalty to prevent hyphenation.

```

294 \hyphenpenalty=500000

```

Increase tolerance of wider word spacing in lines.

```

295 \tolerance=5000

```

Increase the widow penalties.

```

296 \widowpenalty=10000

```

Increase the orphan penalties

```

297 \clubpenalty=10000

```

Allow ragged bottom pages

```

298 \raggedbottom

```

10.8 The Title Page Layout

```

\@maketitlepage Define the title page
299 \def\@maketitlepage{
create a new page
300 \newpage
make the page empty
301 \thispagestyle{empty}
if draft mode start numbers here
302 \ifdraftcopy\linenumbers\fi
begin center justification
303 \begin{center}
position title start 0.25 in from top of text block
304 \vspace*{0.25in}
set line spacing to double spacing for title
305 \doublespacing
call uppercovertitle
306 \@uppercovertitle

```

```

set line spacing to single spacing
307 \singlespacing
fill to by line
308 \vfill
set by line and start new line
309 by \*[ \baselineskip]
call upper case author string
310 \@upperauthor\
fill to gs declaration
311 \vfil
if draft mode set disclaimer
312 \ifdraft\@disclaimer\\\fi\vfill
declaration to the graduate school.
313 A \@upperpapertype \*[ \baselineskip]
314 Presented to the \@narrowdepartment \[*
315 and the Graduate School of the
316 University of Oregon \[*
317 in partial fulfillment of the requirements \[*
318 for the degree of \[*
call degree
319 \@degree \*[ \baselineskip]
call degree month
320 \@degreemonth ~\thedegreeyear\
close center justification
321 \end{center}}

```

10.9 The Approval Page

Define the approval signature page

`\@makeapprovepage`

```

322 \def\@makeapprovepage{
create clear page
323 \clearpage
324 \thispagestyle{plain}
place the heading.
325 \@startchapter{\@upperpapertype\ APPROVAL PAGE}
begin single spacing
326 \begin{spacing}{1}
3 ex of vertical space
327 \vspace*{3ex}
suppress indenting in the page
328 \noindent
call author string.
329 Student: \@author\*[ \baselineskip]

```

call the document title.

```
330 Title: \@abstracttitle\*\[\baselineskip]
```

place the GS mandated text

```
331 This \@papertype\ has been accepted and approved
332 in partial fulfillment of the requirements for the
333 \@degree\ degree in the \@narrowdepartment\ by:\*\[\baselineskip]
```

create a table with the names of the examining committee

```
334 \begin{tabular}[t]{p{2.25in} p{3.25in}}
```

call chair string then label

```
335 \@chair & Chair\
```

call cochair string then label if it exists

```
336 \if@cochair
337 \@cochair& Co-chair\
338 \fi
```

call advisor

```
339 \@advisor & Advisor\
```

call committee string

```
340 \@committee\
341 and & \ \ \
342 \@graddean & Vice President for Research
343 and Graduate Studies/ Dean of the Graduate School
```

end tabular environment

```
344 \end{tabular}\*\[\baselineskip]
```

remainder of the text required by GS

```
345 Original approval signatures are on file with the
346 University of Oregon Graduate School.\*\[\baselineskip]
```

degree date

```
347 Degree awarded \@degreemonth ~\thedegreeyear
```

end single spacing

```
348 \end{spacing}}
```

10.10 The Copyright Page

```
\@makecopyrightpage Define the copyright page.
349 \def\@makecopyrightpage{
begin copyright conditional
350 \if@copyright
create clear page
351 \clearpage
352 \thispagestyle{plain}
4 in vertical space
353 \@fromtopskip{5in}
create a centered line with copyright symbol followed by degree year and author
string
354 \ifbound\else\centerline{\copyright ~\thedegreeyear ~\@author}\fi
```

```

vertical fill to bottom of the page if draft mode set disclaimer
355 \ifbound\centering\@bounddisclaimer\\\else\fill\fi\fil
end copyright conditional
356 \fi}

```

10.11 The Abstract Page

```

\@makeabstractpage Define the abstract page.
357 \def\@makeabstractpage{
create clear page
358 \clearpage
359 \pagestyle{plain}
place the heading.
360 \startchapter{\@upperpapertype\ ABSTRACT}
begin single spacing
361 \begin{spacing}{1}
3 ex of vertical space
362 \vspace*{3ex}
suppress indenting in the page
363 \noindent
call author string.
364 \@author\\\*[\baselineskip]
call the degree type.
365 \@degree\\\*[\baselineskip]
call the department name
366 \@department\\\*[\baselineskip]
the date
367 \@degreemonth ~\thedegreeyear\\\*[\baselineskip]
call the document title.
368 Title: \@abstracttitle\\\*[\baselineskip]
369 \parbox[t]{5in}{\raggedright
begin co-chair conditional
370 \if@cochair
signature lines for advisor
371 \@sigline{3.5in}{\hspace*{1.5in}\@advisor, Co-chair}\\\*[\baselineskip]
signature lines for cochair.
372 \@sigline{3.5in}{\hspace*{1.5in}\@cochair, Co-chair}
if no co-chair
373 \else
signature line for advisor.
374 \@sigline{3.5in}{\hspace*{1.5in}\@advisor}

```

```

end co-chair conditional
375 \fi}\}* [2\baselineskip]
376 \end{spacing}
set text block to full justification if option is called
377 \ifjustified\else\RaggedRight\fi
378 \@abstract}

```

10.12 The Acknowledgments Page

```

\@makeackpage Define the acknowledgements page
379 \def\@makeackpage{
create clear page
380 \clearpage
381 \thispagestyle{plain}
set the header.
382 \@startchapter{ACKNOWLEDGEMENTS}
vertical space
383 \vspace*{\baselineskip}
384 \par
begin draft conditional statement
385 \ifcommitteedraft
print disclaimer
386 \begin{center}\@disclaimer\end{center}
else
387 \else
place acknowledgments set text block to full justification if option is called
388 \ifjustified\else\RaggedRight\fi
389 \@acknowledge
begin late draft conditional statement
390 \iflatedraft
vertical fill
391 \vfill
begin center justification
392 \begin{center}
mark as review proof
393 \textcolor{red}{\textbf{\uppercase{review proof}}}\}
end centering
394 \end{center}
end late draft conditional
395 \fi
end draft conditional
396 \fi}

```


10.13 The Dedication Page

```
\@makededpage Define the dedication page
397 \def\@makededpage{
begin dedication conditional
398 \if@dedication
create clear page
399 \clearpage
400 \thispagestyle{plain}
set page to width of dedication
401 \settowidth{\@tempdima}{\@dedication}
begin short dedication conditional
402 \ifcommitteedraft
exclude from the committee draft.
403 \setlength{\@tempdima}{0pt}
end short dedication conditional
404 \fi
begin long dedication conditional
405 \ifdim\@tempdima<\textwidth
4 in vertical space from top of page
406 \@fromtopskip{4in}
set dedication header
407 \@chapterline{}
if dedication longer than 1 line of text
408 \else
3 in vertical space from top of page
409 \@fromtopskip{3in}
set dedication header
410 \@startchapter{}
end long dedication conditional
411 \fi
vertical space
412 \vspace*{\baselineskip}
end of paragraph
413 \par
begin draft conditional
414 \ifcommitteedraft
print disclaimer
415 \begin{center}\@disclaimer\end{center}
else
416 \else
begin center justification
417 \begin{center}
```

```

place the dedication...
418 \@dedication
end center justification
419 \end{center}
vertical fill to center on page
420 \vfill
begin late draft conditional
421 \iflatedraft
begin center justification
422 \begin{center}
set review proof notification
423 \textcolor{red}{\textbf{\uppercase{review proof}}}\
end center justification
424 \end{center}
end late draft conditional
425 \fi
end draft conditional
426 \fi
end dedication conditional
427 \fi}

```

10.14 The Curriculum Vitae

```

\@makevita Define the CV
428 \def\@makevita{
create clear page
429 \clearpage
430 \thispagestyle{plain}
place the heading.
431 \@startchapter{CURRICULUM VITAE}
begin single spacing
432 \begin{singlspacing}
3 ex of vertical space
433 \vspace*{3ex}
call author string.
434 \noindent NAME OF AUTHOR:\quad \@author \vskip\baselineskip
call birthplace string.
435 \noindent PLACE OF BIRTH:\quad \@birthplace \vskip\baselineskip
call birthday string.
436 \noindent DATE OF BIRTH:\quad \@birthdate \vskip\baselineskip
437 \everypar={\hangindent=\@cvhangindent}

```

```

call the educational history string.
438 \noindent GRADUATE AND UNDERGRADUATE SCHOOLS ATTENDED:
439 \@schools
440 \vskip \baselineskip
call the degrees string.
441 \noindent DEGREES AWARDED:
442 \@degrees
443 \vskip \baselineskip
call the interests string.
444 \noindent AREAS OF SPECIAL INTEREST:
445 \@interests
change the paragraph spacing.
446 \everypar={\parskip=0.75\baselineskip
447 \hangindent=\cvhangindent
448 \interlinepenalty=\@M}
call the experience string.
449 \cvitem{PROFESSIONAL EXPERIENCE}{\@experience}
call the awards string.
450 \cvitem{GRANTS, AWARDS AND HONORS}{\@awards}
call the publications string.
451 \cvitem{PUBLICATIONS}{\@publications}
end the alternate paragraph spacing.
452 \par
end single spacing
453 \end{singlespacing}}

```

10.15 Full Draft Front Matter

`\@maketitlepages` Here we call the previously defined pages in their proper order.

```

454 \def\@maketitlepages{
set the page numbering to roman
455 \pagenumbering{roman}
call the pages
456 \@maketitlepage
457 \@makeapprovepage
458 \@makecopyrightpage
459 \@makeabstractpage
460 \@makevita
461 \@makeackpage
462 \@makededpage
begin single spacing before TOC, etc...
463 \begin{singlespacing}
adjust the formatting for the TOC's
464 \clearpage

```

set the page style for non-"toheadings" style TOC, LOF, LOT figures.

```
465 \pagestyle{tocextraheadings}
466 \@tableofcontents
467 \IfFileExists{\jobname.\ext@figure}{\@listoffigures}{\@starttoc{\ext@figure}}
468 \IfFileExists{\jobname.\ext@table}{\@listoftables}{\@starttoc{\ext@table}}
create clear page
469 \clearpage
reset to normal header dimensions
470 \@normalheaderdims
create clear page
471 \clearpage
end single spacing
472 \end{singlespacing}}
```

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.

```
473 \def\@makedraftcover{
page break
474 \clearpage
blank page
475 \thispagestyle{empty}
start line numbers for drafts
476 \linenumbers
begin center justification
477 \begin{center}
02.5 in vertical space
478 \vspace*{0.25in}
call document string in large font
479 {\large \@upperpapertype}\\
begin single spacing
480 \begin{singlespacing}
call the cover title
481 {\large \@covertitle}\\
vertical space
482 \vspace*{\baselineskip}
state the draft date.
483 Draft of \@longdraftdate\\
call the author string.
484 \@author
end single spacing
485 \end{singlespacing}}
```

```

end center justification
486 \end{center}
small font
487 {\small
begin single spacing
488 \begin{singlespacing}
place the abstract header
489 \begin{center}ABSTRACT\end{center}
call the abstract string.
490 \par\@abstract
vertical fill
491 \vfill
begin center justification
492 \begin{center}
suppress indenting
493 \noindent
call disclaimer
494 \@disclaimer\
end center justification
495 \end{center}
end single spacing
496 \end{singlespacing}}
clear page
497 \clearpage}

```

10.17 Typeset the appropriate frontmatter

```

498 \def\maketitle{
499 \ifdraftcopy
500 \iflatedraft
501 \@maketitlepages
502 \else
503 \ifcommitteedraft
504 \@maketitlepages
505 \else
506 \@makedraftcover
507 \pagenumbering{roman}
508 \listoftodos\clearpage
509 \fi
510 \fi
511 \else
512 \@maketitlepages
513 \fi
514 \pagestyle{plain}
515 \ifjustified\else\RaggedRight\fi
516 \pagenumbering{arabic}
517 \setcounter{page}{1}}

```

10.18 General Heading Formatting

page headings

```
518 \def\@footlines#1{\hbox to\textwidth{#1}}
519 \def\@footer{\ifbound
520 \hfill\rm\thepage
521 \else
522 \hfil\rm\thepage\hfil\fi}
```

define the toc chapter and page labels for first page

```
523 \def\ps@toheadings{
524 \def\@oddfoot{\@footlines{\@footer}}
525 \def\@oddhead{}
526 \let\@evenfoot\@oddfoot
527 \let\@evenhead\@oddhead}
```

define the toc chapter and page labels for additional pgs.

```
528 \def\ps@tocextraheadings{
529 \def\@oddfoot{\@footlines{\@footer}}
530 \def\@oddhead{\hbox to\textwidth{Chapter\hfil{Page}}}}
531 \let\@evenfoot\@oddfoot
532 \let\@evenhead\@oddhead
533 \textheight 620pt
534 \headheight 14pt
535 \headsep 14pt}
```

redefine the plain page headers and footers for bound option.

```
536 \def\ps@plain{
537 \def\@oddfoot{\@footlines{\@footer}}
538 \def\@oddhead{}
539 \let\@evenfoot\@oddfoot
540 \let\@evenhead\@oddhead
541 \textheight 620pt
542 \headheight 14pt
543 \headsep 14pt}
```

10.18.1 TOC,TOF, etc...Headers

```
544 \def\@contentspages#1#2{
545 \clearpage
546 \markboth{#1}{#1}
547 \thispagestyle{toheadings}
548 \@startchapter{#2}
549 \vspace*{14pt}
550 \noindent
551 \makebox[\textwidth][l]{#1 \hfill Page}
552 }
553 \def\@tableofcontents{\@contentspages{Chapter}{TABLE OF CONTENTS}
554 \@mysingle\starttoc{toc}\pagestyle{tocextraheadings}}
555 \def\@listoffigures{\@contentspages{Figure}{LIST OF FIGURES}
556 \@mydouble\starttoc{\ext@figure}\pagestyle{tocextraheadings}}
557 \def\@listoftables{\@contentspages{Table}{LIST OF TABLES}
558 \@mydouble\starttoc{\ext@table}\pagestyle{tocextraheadings}}
```

10.19 Table of Contents Formatting

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

```
559 \if@gsmodern
560   \def\numberline#1{\hbox to\@tempdima{\hskip 0.75em #1\hfil}}
561 \else
562   \def\numberline#1{\hbox to\@tempdima{\hfil #1\hskip 0.75em}}
563 \fi
564 \def\@dottedtocline#1#2#3#4#5{
565   \ifnum #1>\c@tocdepth
566 \else
567   \vskip \z@ \@plus.2\p@
568     {\leftskip=#2\relax \rightskip=\@tocrmarg
569 \parfillskip=-\rightskip
570   \parindent=#2\relax \hangindent=1.5em
571 \spacespace\@afterindenttrue
572   \interlinepenalty\@M
573   \leavevmode
574   \@tempdima=#3\relax
575   \advance\leftskip by\@tempdima \null\nobreak
576 \hskip -\leftskip
577   {#4}\nobreak
578   \leaders\hbox{$\m@th
579     \mkern \@dotsep mu\hbox{.}\mkern
580 \@dotsep
581   mu$}\hfill
582   \nobreak
583   \hb@xt@\@pnumwidth{\hfil\normalfont
584 \normalcolor #5}
585   \par}
586 \fi}
587 \def\@sechack{\relax}
588 \def\l@chapter#1#2{
589   \pagebreak[3]\par\vskip\baselineskip
590   \@dottedtocline{0}{0in}{0.5in}{#1}{#2}
591   \nopagebreak\par
592   \gdef\@sechack{\vskip\baselineskip\gdef\@sechack{\relax}}
593 \if@gsmodern
594   \def\l@section{\@sechack\@dottedtocline{1}{0.5in}{0.5in}}
595 \else
596 \if@numsections
597   \def\l@section{
598 \@sechack\@dottedtocline{1}{0.5in}{0.5in}}
599 \else
600   \def\l@section{
601 \@sechack\@dottedtocline{1}{0.75in}{0.5in}}
602 \fi
603 \fi
604 \def\l@figure{\@dottedtocline{0}{0in}{0.5in}}%
605 \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...

```
606 \def\@chapapp{CHAPTER}
607 \renewcommand{\thechapter}{\arabic{chapter}}
608 \def\@makechapterhead#1{{
609 \centering
610 \ifnum \c@secnumdepth>\m@ne
611 \@chapapp{
612 \if@appendices
613 \ifnum 1=\aux@appendices
614 \ifnum 1=\c@chapter\else
615 \typeout{warning:
616 extra appendices; rerun LaTeX}
617 \thechapter
618 \fi
619 \else
620 \thechapter
621 \fi
622 \else
623 \Roman{chapter}
624 \fi
625 \par
626 \vskip 2ex
627 \fi
628 \ifsc\textsc{#1}\else\uppercase{#1}\fi\par\nopagebreak\vskip 4ex}}
629 \def\@makeschapterhead#1{{
630 \@startchapter{\ifsc\textsc{#1}\else\uppercase{#1}\fi}\par
631 \nopagebreak\vskip 4ex}}
632 \def\chapter{
633 \clearpage\global\@topnum\z@
634 \@afterindenttrue\secdef\@chapter\@schapter}
635 \def\@chapter[#1]#2{
636 \stepcounter{chapter}
637 \if@appendices
638 \protected@edef\@currentlabel
639 {\csname p@chapter\endcsname\Alph{chapter}}
640 \else
641 \protected@edef\@currentlabel
642 {\csname p@chapter\endcsname\Roman{chapter}}
643 \fi
644 \typeout{[#1]}
645 \if@appendices
646 \ifnum\c@chapter=1
647 \ifnum\aux@appendices=1
648 \addtocontents{toc}{
649 \protect\pagebreak[3]\protect\vspace{3ex}
650 \protect\nopagebreak\protect\noindent
651 {}\protect\nopagebreak}
652 \else
653 \addtocontents{toc}{
654 \protect\pagebreak[3]\protect\vspace{3ex}
655 \protect\nopagebreak\protect\noindent
```



```

656 {APPENDICES}\protect\nopagebreak}
657 \fi
658 \fi
659 \fi
660 \@emit{\string\global\string\aux@appendices=\number\c@chapter}
661 \ifnum \c@secnumdepth >\m@ne
662 \if@appendices
663 \ifnum\aux@appendices=1
664 \addcontentsline{toc}{chapter}
665 {APPENDIX:
666 \ifsc\textsc{#1}\else\uppercase{#1}\fi}
667 \else\ifnum\aux@appendices > 1
668 \addcontentsline{toc}{chapter}
669 {\protect\number@appendix{\number\c@chapter
670 }\{\Alph{chapter}.}
671 \ifsc\textsc{#1}\else\uppercase{#1}\fi}
672 \fi\fi
673 \else
674 \addcontentsline{toc}{chapter}
675 {\protect\numberline{\Roman{chapter}.}\ifsc\textsc{#1}
676 \else\uppercase{#1}\fi}
677 \fi
678 \fi
679 \chaptermark{\ifsc\textsc{#1}\else\uppercase{#1}\fi.}
680 \if@twocolumn
681 \@topnewpage[\@makechapterhead{\ifsc\textsc{#2}
682 \else\uppercase{#2}\fi}]
683 \else
684 \@makechapterhead{\ifsc\textsc{#2}\else\uppercase{#2}\fi}
685 \@afterheading
686 \fi}
687 \def\@schapter#1{
688 \if@twocolumn
689 \@topnewpage[\@makeschapterhead{\ifsc\textsc{#1}\else
690 \uppercase{#1}\fi}]
691 \else
692 \@makeschapterhead{\ifsc\textsc{#1}\else\uppercase{#1}\fi}
693 \@afterheading
694 \fi}
695 \def\chapter{
696 \clearpage\global\@topnum\z@
697 \@afterindenttrue \secdef\@chapter\@schapter}
698 \def\@chapterline#1{\centerline{#1}}
699 \def\@startchapter#1{\@chapterline{#1}}

```

10.21 Section Headings formatting

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

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

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

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

```

703     \@afterindenttrue
704     \ifdim \@tempskipa <\z@ \@tempskipa -\@tempskipa \@afterindentfalse\fi
705     \if@nobreak
706 \everypar{}
707 \else
708     \addpenalty{\@secpenalty}\addvspace{\@tempskipa}
709 \fi
710 \@ifstar{\@ssect{#2}{#3}{#4}{#5}{#6}}{\@dblarg{
711 \@sect{#1}{#2}{#3}{#4}{#5}{#6}}}}
712 \def\@sect#1#2#3#4#5#6[#7]#8{
713     \if@gsmodern
714     \refstepcounter{#1}
715     \edef\@svsec{\csname the#1\endcsname~~}
716     \else
717 \if@numsections
718     \refstepcounter{#1}
719     \edef\@svsec{\csname the#1\endcsname~~}
720     \else
721     \ifnum #2>\c@@shownumdepth
722     \def\@svsec{}
723 \else
724     \edef\@svsec{\csname the#1\endcsname\hskip 1em }
725 \fi
726     \ifnum #2>\c@secnumdepth\else\refstepcounter{#1}\fi
727     \fi
728 \fi
729 \@tempskipa #5\relax
730 \ifdim \@tempskipa>\z@
731     \if@gsmodern
732     \begingroup
733     \@hangfrom{\bf#6\relax\hskip #3\relax\@svsec{#8}}{
734     \interlinepenalty \@M
735     \endgroup
736     \else
737 \if@numsections
738     \begingroup #6\relax
739     \@hangfrom{#6\relax\hskip #3\relax}{
740 \ifnum #2=1 \bf\else
741 \ifnum #2=3 \it\else\fi\fi
742 \interlinepenalty \@M
743     \ifnum #2=1 \@svsec{#8}\else
744 \ifnum #2=2 \@underbar{#8}\else#8\fi\fi
745     \par}
746     \interlinepenalty \@M
747     \endgroup
748     \else
749     \begingroup #6\relax
750     \@hangfrom{\hskip #3\relax\@svsec}{
751 \ifnum #2=1 \bf\else
752 \ifnum #2=2 \it\else\fi\fi
753 \interlinepenalty \@M
754     \ifnum #2=3 \@underbar{#8} \else #8 \fi
755     \par}
756     \endgroup

```

```

757         \fi
758 \fi
759         \csname #1mark\endcsname{#7}\addcontentsline{toc}{#1}{
760         \ifnum #2>\c@%shownumdepth
761 \else
762 \protect\numberline{\csname the#1\endcsname}
763 \fi#7}
764 \else
765 \def\@svsechd{#6\hskip #3\@svsec #8
766 \csname #1mark\endcsname{#7}\addcontentsline{toc}{#1}{
767 \ifnum #2>\c@%shownumdepth
768 \else
769                                     \protect\numberline{\csname the#1\endcsname}
770 \fi#7}}
771 \fi
772 \@xsect{#5}}
773 \def\@ssect#1#2#3#4#5#6{\@tempskipa #4\relax
774 \ifdim\@tempskipa>\z@
775 \begingroup #5\@hangfrom{\hskip #2}{\interlinepenalty \@M
776 \ifodd #1
777 \ifnum #1 >3 \@underbar{#6} \hfil
778 \else
779                                     \@underbar{#6}
780 \fi
781 \else
782                                     #6
783 \fi \par}\endgroup
784 \else
785 \def\@svsechd{#5\hskip #2\relax {#6}}
786 \fi
787 \@xsect{#4}}

```

10.21.1 Numbering Hierarchies

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

```

788 \if@gsmodern
789 gsmodern sets hierarchy to be numbered C.sec.sub.sub.s
789 \def\section{\@startsection{section}{1}{\z@}{3ex}{2ex}{}}
790 \renewcommand{\thesection}{\thechapter.\arabic{section}.}
791 \def\subsection{\@startsection{subsection}{2}{\z@}{3ex}{2ex}{}}
792 \renewcommand{\thesubsection}{\thesection\arabic{subsection}.}
793 \def\subsubsection{\@startsection{subsubsection}{3}{\z@}{3ex}{2ex}{}}
794 \renewcommand{\thesubsubsection}{\thesubsection\arabic{subsubsection}.}
795 \renewcommand{\theequation}{Equation\ \thechapter.\arabic{equation}.}
796 \else
797 \if@numsections
798 numsections numbers C.sect.
798 \def\section{\@startsection{section}{1}{\z@}{3ex}{2ex}{\centering}}
799 \renewcommand{\thesection}{\thechapter.\arabic{section}.}
800 \def\subsection{\@startsection{subsection}{2}{\z@}{3ex}{2ex}{\centering}}
801 \renewcommand{\thesubsection}{\thechapter.\arabic{subsection}.}
802 \def\subsubsection{\@startsection{subsubsection}{3}{\z@}{2ex}{2ex}{\centering}}

```

```

803 \renewcommand{\thesubsubsection}{  

804 \renewcommand{\theequation}{Equation\ \thechapter.\arabic{equation}.}  

805  

806 \else  

807 \def\section{\@startsection{section}{1}{\z@}{3ex}{2ex}{\centering}}  

808 \def\subsection{\@startsection{subsection}{2}{\z@}{3ex}{2ex}{\centering}}  

809 \def\subsubsection{\@startsection{subsubsection}{3}{\z@}{2ex}{2ex}{}}  

810 \fi  

811 \fi

```

10.22 Bibliography Formatting

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

```

812 \newcommand{\@bibsection}[1]{  

813 \clearpage  

814 \addcontentsline{toc}{chapter}{#1}  

815 \@startchapter{#1}  

816 \singlespacing  

817 \@mysingle  

818 \vspace*{3ex}}

```

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

```

819 \def\thebibliography{  

820 \@bibsection{REFERENCES CITED}\list  

821 {[\arabic{enumi}]}{\labelwidth\z@ \itemindent-\parindent  

822 \leftmargin\parindent  

823 \interlinepenalty\@M  

824 \usecounter{enumi}}  

825 \def\newblock{\hskip .11em plus .33em minus -.07em}  

826 \sloppy  

827 \raggedright  

828 \sfcode'\.=1000\relax  

829 \let\endthebibliography=\endlist  

830 \newcommand{\formatbib}{  

831 \addcontentsline{toc}{chapter}{REFERENCES CITED}  

832 \singlespacing  

833 \renewcommand\bibName{REFERENCES CITED}}

```

10.23 Float Labels

`\thefigure` Formatting for the the floats.

```

834 \def\thefigure{\@arabic\c@figure}  

835 \def\fnm@figure{FIGURE \thefigure}  

836 \def\thetable{\@arabic\c@table}  

837 \def\fnm@table{TABLE \thetable}

```

Table and figure numbering by chapter or continuous

```

838 \if@gsmodern  

839 \else  

840 \def\cl@chapter{\@elt{section}\@elt{footnote}\@elt{equation}}  

841 \fi

```

```

gsmodern sets figures and tables to be numbered C.Fig. and C.Tab.
842 \if@gsmodern
843 \renewcommand{\thefigure}{\thechapter.\arabic{figure}.}
844 \renewcommand{\thetable}{\thechapter.\arabic{table}.}
845 \renewcommand{\theequation}{Equation\ \thechapter.\arabic{equation}.}
846 \fi

```

10.24 Italicized Description Labels

```

\descriptionlabel Setting italics labels
847 \renewcommand{\descriptionlabel}[1]{
848 \hspace{\labelsep}\textit{#1}}

```

10.25 Appendix Formatting

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

```

849 \newif\if@appendices
850 \newcount\aux@appendices
851 \def\number@appendix#1#2{
852 \ifnum 1=\aux@appendices
853 \ifnum 1=#1
854 {\protect\hspace*{0.5in}}
855 \else
856 \numberline{#2}
857 \fi
858 \else
859 \numberline{#2}
860 \fi}
861 \def\appendix{
862 \par
863 \setcounter{chapter}{0}
864 \def\@chapapp{\uppercase{appendix}}
865 \def\thechapter{\Alph{chapter}}
866 \@appendicestrue}

```

10.26 Correction of Spacing Problems

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

```

\@savdim
867 \ifx\@savdim\undefined
868 \let\@savdim\@savsk
869 \newskip\@savsk
870 \fi

```

```

\@bsphack
871 \def\@bsphack{\relax
872 \ifmode
873 \else
874 \@savsk\lastskip
875 \@savsf
876 \ifhmode

```

```

877 \spacefactor
878 \else
879 \lastpenalty\@savdim\prevdepth\removelastskip%
880 \fi
881 \fi}

```

`\@esphack`

```

882 \def\@esphack{\relax
883   \ifmode
884   \else\ifvmode
885     \penalty\if@nobreak\@M
886     \else\if@inlabel\@M
887     \else\if@noskipsec\@M
888     \else\@savs f
889     \fi
890   \fi
891   \fi
892   \prevdepth\@savdim\vskip\@savsk
893   \else
894   \spacefactor\@savs f\relax
895   \ifdim\@savsk>z@\ignorespaces
896   \fi
897   \fi
898   \fi}

```

10.27 Environment Refinements

`\@begintheorem`

```

899 \def\@begintheorem#1#2#3{\noindent
900 \list{}{\rightmargin=\leftmargin
901 \itemindent=\leftmargin}
902 \item[\underline{#1\ #2}#3]\hskip
903 0pt\par\nobreak\ignorespaces}

```

`\@begintheorem`

```

904 \def\@begintheorem#1#2{
905 \@begintheorem{#1}{#2}{}}

```

`\@opargbegintheorem`

```

906 \def\@opargbegintheorem#1#2#3{
907 \@begintheorem{#1}{#2}{ (#3)}}

```

`\@qed`

```

908 \def\@qed{\unskip\nobreak
909 \hfil\penalty50\hskip1em\null\nobreak\hfil
910 \qedsymbol\parfillskip\z@\finalhyphendemerits0\par}}

```

`\@endtheorem`

```

911 \def\@endtheorem{\expandafter
912 \ifx\csname qedsymbol\endcsname\relax
913 \else\@qed\fi\endlist}

```

qedbox

```
914 \def\qedbox{{\mathsurround\z@\Box$}}
915 \let\labelitemi=\labelitemii
916 \let\labelitemii=\labelitemiii
917 \let\labelitemiii=\labelitemiv
918 \catcode'\*=11
919 \let\itemize*=\enumerate
920 \let\enditemize*=\endenumerate
921 \@makeother\*
922 \let\@itemize=\itemize
```

\itemize

```
923 \def\itemize{
924 \typeout{Warning: Itemize
925 deprecated by Grad. School}
926 \global\let\itemize=\@itemize
927 \itemize}
```

quote*

```
928 \newenvironment{quote*}
929 {\list{}{\rightmargin\leftmargin}
930 \item\relax}
931 {\endlist}
```

quote

```
932 \renewenvironment{quote}
933 {\begin{quote*}\singleline\it\footnotesize}
934 {\end{quote*}}
```

10.28 Reference Pages

\pagesref

```
935 \newif\if@pagesspecial
936 \newcommand{\pagesref}[5]{
937 \@pagesspecialtrue
938 \expandafter\ifx\csname r@#1\endcsname\relax
939 \@pagesspecialfalse\else\fi
940 \expandafter\ifx\csname r@#2\endcsname\relax
941 \@pagesspecialfalse\else\fi
942 \if@pagesspecial
943 \@tempcnta=\pageref{#1}
944 \@tempcntb=\pageref{#2}
945 \ifnum\@tempcnta=\@tempcntb\else\@pagesspecialfalse\fi
946 \if@pagesspecial
947 \ifnum\@tempcnta=\c@page
948 {#5}
949 \else
950 \mbox{{#3}\pageref{#1}}
951 \fi
952 \fi
953 \fi
954 \if@pagesspecial
```

```

955 \else
956 \mbox{{#4}\pageref{#1}--\pageref{#2}}
957 \fi}}

```

`\pages`

```

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

```

</class>

11 Change History

2.5	General: Major restructuring of the CV area to allow for a more LaTeX-like experience. Borrowing code ideas from alternate physics LaTeX Code.	18	v2.0d	port 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		General: Refined editing tools to only appear in editing mode and not cause errors during final typesetting.	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	v2.0e	General: Created <code>draftimages</code> option, which sets the <code>includegraphics</code> command in <code>graphicx</code> to "draft" mode.	1
v2.0b	General: Removed outdated <code>caption.cls</code> support. Cleaning up the error codes during the compile.	1	v2.0f	General: Started cleaning up the comments and logic hierarchies. Using Tabs not spaces for nesting.	1
v2.0c	General: Updated <code>draftcopy</code> 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 sup-		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 <code>chemstyle</code>). <code>gsmodern</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.	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. <code>allow</code> 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
v2.0i	General: Created the option <code>contnumbering</code> : Provides option of having the figure and tables numbered continuously or by chapter.	v2.0o	General: Brought abstract and approval pages into compliance with new graduate student formatting guidelines.	1
v2.0j	General: Fixed numbering issues with appendices. Corrected coding for gsmoern to be the hierarchical level numbering. Implemented overfull hbox marking in all draft modes.	v2.0p	General: Fixed comments from graduate student thesis editor. Corrected Appendix bug (somebody tied the appendix marker to the back flyleafâ€¦). Got the page number placement sorted out. .	1
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	v2.1	General: Tweaked gsmoern, numsection, and default numbering schemes for sections, tables and figures.	1
		v2.2	General: Made flush left text the default for the text block. Added "justified" option for full justified (LaTeX default) text block. Adjusted the default indent to 24pt as per the GS recommendation. .	1
		v2.3	General: added "amstex" and "chemistry" options. <code>amstex</code> loads the ams packages <code>amsthm</code> , <code>amsmath</code> , and <code>amssymb</code> packages in the appropriate order as indicated by the ams-tex manual.	
v2.0l	General: Added new environments <code>chem</code> and <code>Chem</code> based on a combination of amsmath equation			

chemistry loads mhchem and creates new environments for long chemical equations as well as the "reaction" environment.	1	format	1
v2.4		\cleanbreak: Corrected a potential error here when the command is used with the ragged right text block.	14
\@makeabstractpage: Added RaggedRight option to abstract.	24	v2.5	
\@makeackpage: Added RaggedRight option to acknowledgements.	24	General: A significant rewrite of the CV handling.	9
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, allowing the printing and 3 hole punching of documents. A disclaimer is placed on the copyright page indicating that the document is for personal use and is not to be confused with the official formatting (i.e. final with bound off). First version in .dtx		Added formatbib	36
		changed the awards command, and turned it into a 1 entry macro.	9
		changed the degrees command, and turned it into a 1 entry macro.	9
		changed the experience command, and turned it into a 1 entry macro.	9
		changed the publications command, and turned it into a 1 entry macro.	9
		changed the schools command, and turned it into a 1 entry macro.	9

12 Index

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.

Symbols	\@bibsection .. <u>812</u> , 820	\@currentlabel 638, 641
\@begintheorem ...	\@birthdate ... 241, 436	\@cvhangindent
.... <u>899</u> , 905, 907	\@birthplace .. 240, 435 <u>235</u> , 437, 447
\@Sigline 229	\@bounddisclaimer ..	\@dblarg 710
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