

# The uiucthesis2014 class \*

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(Adapted from version 2.25, 2005/03/25 by Peter Czoschke

Updated in 2007 by Tim Head.)

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## Abstract

Load the uiucthesis2014 class for use with L<sup>A</sup>T<sub>E</sub>X2e to produce a document that should conform to the format described in *Handbook for Graduate Students Preparing to Deposit*[1]. (Actually I have checked the requirements from a grad college webpage[2]. I believe this template complies, but there is no guarantee.)

## 1 The User Interface

This section describes how to use the uiucthesis2014 class to produce a thesis satisfying the format requirements of the Grad College at UIUC. I assume that you are familiar with L<sup>A</sup>T<sub>E</sub>X, and highly recommend that anyone attempting to use L<sup>A</sup>T<sub>E</sub>X to produce a thesis have access to a copy of the L<sup>A</sup>T<sub>E</sub>X book[3].

Note that I haven't graduated yet and so I haven't taken this template through the ultimate test, which is to actually submit a thesis that uses it. I believe this template does conform to the graduate college requirement, but I am, *in no way* guaranteeing it conforms to anything.

Also, I'm writing my thesis right now as well. I don't plan to make any more changes to this template until I graduate. Hence, if you send me an e-mail right now asking to change some detail that you'd think looks better, you're likely to either not get a response or receive a somewhat polite "Wait until January..." type of response. If you firmly believe this template does not conform to the graduate college requirements, be very precise and I might look at it. It's just the way it is right now, I'm afraid...

### 1.1 Using uiucthesis2014

To write a thesis, you load the UIUC thesis definitions by loading the uiucthesis2014 class at the beginning of your L<sup>A</sup>T<sub>E</sub>X document with the `\documentclass` command. For example,

---

\*This file has version number v2.25b, last revised 2014/05/02.

---

`\documentclass[edeposit,fullpage]{uiucthesis2014}`

---

<code>[draftthesis]</code>	The <code>uiucthesis2014</code> class provides a number of options. The <code>[draftthesis]</code> option causes each page to have a header proclaiming the document to be a draft copy, along with the current time and date. It also omits the copyright page and prints out any marginal notes added with the <code>\note</code> macro. The <code>[fancy]</code> style option produces slightly fancier chapter headings. The <code>[fullpage]</code> style option makes the margins as small as the format requirements allow and uses double-spacing for the text. Because wide text columns are generally considered harder on the reader this is not the default, but is provided as an option because people seem to want it. The <code>[fancy]</code> and <code>[fullpage]</code> options are incompatible—choose one or the other.
<code>[fancy]</code>	
<code>[fullpage]</code>	
<code>[proquest]</code>	The <code>[proquest]</code> option is meant to be used when you are ready to deposit your thesis. For doctorates, the Grad College requires the submission of a specially formatted abstract for the ProQuest publication service. To produce this abstract, include the <code>[proquest]</code> option and reprocess your file. Everything in your $\text{\LaTeX}$ document will be ignored except the contents of the <code>abstract</code> environment, which are printed out in the format required. Once the option is removed from the <code>\documentclass</code> command, you can reprocess your thesis as normal (the auxiliary files should be intact). To use this option, the name of your thesis advisor needs to be specified with the <code>\advisor</code> command (see below).
<code>[edeposit]</code>	Use the <code>[edeposit]</code> option if you are depositing your thesis electronically. The title page used to be different, but the requirement appears to have been harmonized since. The page numbering is slightly different since the committee approval form is not included with your thesis. (The page numbering change is currently the only difference of the <code>edeposit</code> option. You must specify your committee members with the <code>\committee</code> command (see below).
<code>[offcenter]</code>	The <code>[offcenter]</code> option adds 1/2 inch to the left margin of all pages and takes away 1/2 inch to the text width, leaving a 1.5in left margin and a 1in right margin. I believe this setting satisfies the pre-2009 requirement by the grad college to have a 1.5in margin for binding. It should also allow you more room for binding if you need it. The new requirement is a minimum 1in margin all around and the <code>[fullpage]</code> option without the <code>[offcenter]</code> option should achieve this goal.  This can now be done to allow some extra space there for binding purposes, or if you use the <code>[fancy]</code> option, to allow for more space for the chapter numbers at the left side of the page. In past versions of <code>uiucthesis2014</code> (the name used was simply <code>uiucthesis</code> ), the <code>[fancy]</code> option did this by default. This version uses symmetric margins by default, even with the <code>[fancy]</code> option. If you have a lot of chapters (i.e., more than 9), your chapter numbers may spill into the 1 inch margin required by the Grad College without using this option.
<code>[centerchapter]</code>	Normally, the chapter headings are all left-justified on the opening page of each chapter. These headings can all be centered by using the <code>[centerchapter]</code> option for the class. This option is not recommended for use with the <code>[fancy]</code> option.

## 1.2 The Title Page

The `\maketitle` command is redefined so that it creates a title page with the correct format for a thesis at UIUC.

<code>\phdthesis</code>	Use the <code>\phdthesis</code> or <code>\msthesis</code> to set the correct thesis type. If your thesis
<code>\otherdoctorate</code>	isn't for a "Ph.D." or "M.S.", you can specify your degree with either
<code>\msthesis</code>	<code>\otherdoctorate{&lt;degree name&gt;}{&lt;abbreviation&gt;}</code> or
<code>\othermasters</code>	<code>\othermasters{&lt;degree name&gt;}{&lt;abbreviation&gt;}</code> .
<code>\department</code>	For example, specifying <code>\phdthesis</code> is equivalent to giving the command
<code>\college</code>	<code>\otherdoctorate{Doctor of Philosophy}{Ph.D.}</code> .
	The default thesis type is <code>\phdthesis</code> . Set your department with
	<code>\department{&lt;department&gt;}</code> . This defines the field your degree will be in, so
	leave out "Department of." The default department is "Computer Science". De-
	fine your college with <code>\college{&lt;college&gt;}</code> . The default is college is "Graduate
	College"; you shouldn't need to change it.
<code>\schools</code>	Use <code>\schools{&lt;school list&gt;}</code> to list the previous degrees you have received and
	the schools that you received them from. Separate multiple degrees with <code>\\</code> .
<code>\degreeyear</code>	Use <code>\degreeyear{&lt;year&gt;}</code> to define the year in which you will receive your
	degree. The default is the current year.
<code>\advisor</code>	Use <code>\advisor{&lt;advisor name&gt;}</code> or <code>\adviser{&lt;advisor name&gt;}</code> to specify the
<code>\adviser</code>	name of your advisor. This is needed to produce the ProQuest abstract (see the
	<code>[proquest]</code> option above). You only need to submit a ProQuest abstract if you
	are a doctoral candidate.
<code>\committee</code>	Use <code>\committee{&lt;committee members&gt;}</code> to specify the members of your com-
	mittee and their titles as you want them to appear on the title page. Separate
	members with <code>\\</code> . This is needed for all forms of thesis submission. To respect the
	graduate college guidelines, you must use the full title of each committee mem-
	bers. The committee chair should appear first with the designation ",chair". Your
	thesis adviser should appear second with the title ",Director of Research". See
	the graduate college website for details.
<code>\volume</code>	The <code>\volume</code> macro provides nominal support for very long theses that must be
	broken up into multiple volumes. Use <code>\volume{&lt;number&gt;}</code> to specify the volume
	number (a single arabic numeral). All this macro does is place the word VOLUME
	with the number you specify on the title page. You have to take care of what
	appears in each volume. The easiest way to do this is to create two separate
	source files, one for each volume.

Here's how to produce an example similar to that in [1].

---

```

\begin{document}

\title{Coffee Consumption of Graduate Students \\
      Trying to Finish Dissertations}
\author{Juan Valdez}
\department{Food Science}
\schools{B.A., University of Columbia, 1981\\
        A.M., University of Illinois at Urbana-Champaign, 1986}
\phdthesis
\advisor{Java Jack}

```

```

\degreeyear{1994}
\committee{Professor Prof Uno, Chair\\Professor Prof Dos, Director of Research\\Assistant Pr
\maketitle

```

---

### 1.3 Front Matter

<code>\frontmatter</code>	Typically, a thesis might have an Abstract, a Dedication, some Acknowledgments, and a Preface before the Table of Contents. Use the <code>\frontmatter</code> command to start this preliminary section of the thesis. The <code>\frontmatter</code> command sets the page number of the next page to roman numeral iii (or ii if the <code>[edeposit]</code> option is used). (The title page is page i, and the certificate of committee approval, the “red-bordered form,” is page ii.)
<code>abstract</code>	The abstract should appear in the <code>abstract</code> environment. Normally, this just produces another chapter with <code>\chapter*{\abstractname}</code> , where <code>\abstractname</code> is “Abstract” (see User Customization below), but if the <code>[proquest]</code> option is specified, then the contents of this environment are used for the ProQuest abstract.
<code>dedication</code>	A dedication page can be printed with the <code>dedication</code> environment. This produces a separate page with the dedication centered horizontally and vertically, with the text in italics.  After this front matter comes the Table of Contents, List of Tables, List of Figures, etc. Use the standard L <sup>A</sup> T <sub>E</sub> X commands <code>\tableofcontents</code> , <code>\listoftables</code> , <code>\listoffigures</code> , etc., to generate them. In the <code>uiucthesis2014</code> format these lists are all single spaced.
<code>sympollist</code> <code>sympollist*</code>	Optionally, these tables can be followed by a List of Abbreviations and/or List of Symbols. Introduce these with the <code>\chapter</code> command. To aid in making these lists, the <code>sympollist</code> and <code>sympollist*</code> environments are defined in <code>uiucthesis2014</code> . These environments produce a two-column list as illustrated below. By default the left column is 1 inch wide but can be specified with an optional argument. In the starred environment, the left column is left-justified, otherwise it is centered. See the example below.

Here’s an example of what the front matter of a typical thesis looks like. First comes the Abstract and the Dedication, both of which are optional.

---

```

\frontmatter

% Create an abstract that can also be used for the ProQuest abstract.
% Note that ProQuest truncates their abstracts at 350 words.
\begin{abstract}
This is a comprehensive study of caffeine consumption by graduate
students at the University of Illinois who are in the very final
stages of completing their doctoral degrees. A study group of six
hundred doctoral students\ldots.
\end{abstract}

% Create a dedication in italics with no heading, centered vertically
% on the page.

```

```

\begin{dedication}
To Father and Mother.
\end{dedication}

```

```

% Create an Acknowledgements page, many departments require you to
% include funding support in this.
\chapter*{Acknowledgments}

```

This project would not have been possible without the support of many people. Many thanks to my adviser, Lawrence T. Strongarm, who read my numerous revisions and helped make some sense of the confusion. Also thanks to my committee members, Reginald Bottoms, Karin Vegas, and Cindy Willy, who offered guidance and support. Thanks to the University of Illinois Graduate College for awarding me a Dissertation Completion Fellowship, providing me with the financial means to complete this project. And finally, thanks to my husband, parents, and numerous friends who endured this long process with me, always offering support and love.

```

% The thesis format requires the Table of Contents to come
% before any other major sections, all of these sections after
% the Table of Contents must be listed therein (i.e., use \chapter,
% not \chapter*). Common sections to have between the Table of
% Contents and the main text are:
%
% List of Tables
% List of Figures
% List Symbols and/or Abbreviations
% etc.

```

```

\tableofcontents
\listoftables
\listoffigures
\iffalse
<example>
\fi

```

---

If you want a List of Symbols or Abbreviations, you can do so as follows:

---

```

% Create a List of Abbreviations. The left column
% is 1 inch wide and left-justified
\chapter{List of Abbreviations}

```

```

\begin{symbolist*}
\item[CA] Caffeine Addict.
\item[CD] Coffee Drinker.
\end{symbolist*}

```

```

% Create a List of Symbols. The left column
% is 0.7 inch wide and centered

```

```

\chapter{List of Symbols}

\begin{symbolist}[0.7in]
\item[ $\tau$ ] Time taken to drink one cup of coffee.
\item[ $\mu$ g] Micrograms (of caffeine, generally).
\end{symbolist}

```

---

## 1.4 Main Matter

`\mainmatter` Begin the main body of your thesis with the `\mainmatter` command. It resets the page number to arabic numeral 1. You can now use any of the commands defined by the book document class to write your thesis.

In the following example, each of the chapters has been broken out into separate files that are inserted into this main file with the `\include` command. This allows the thesis to be proofed quickly while it is being revised with the `\includeonly` command. To provide an example of what the chapter headings look like, one chapter has been explicitly coded. (Try recompiling the example file with the `[fancy]` option instead of `[fullpage]` to see the effect.)

---

```

\mainmatter
Sample chapter to test margins
\chapter{This world}
\section{Of the Nature of Flatland}

```

I call our world Flatland, not because we call it so, but to make its nature clearer to you, my happy readers, who are privileged to live in Space.

Imagine a vast sheet of paper on which straight Lines, Triangles, Squares, Pentagons, Hexagons, and other figures, instead of remaining fixed in their places, move freely about, on or in the surface, but without the power of rising above or sinking below it, very much like shadows--only hard with luminous edges--and you will then have a pretty correct notion of my country and countrymen. Alas, a few years ago, I should have said "my universe:" but now my mind has been opened to higher views of things.

In such a country, you will perceive at once that it is impossible that there should be anything of what you call a "solid" kind; but I dare say you will suppose that we could at least distinguish by sight the Triangles, Squares, and other figures, moving about as I have described them. On the contrary, we could see nothing of the kind, not at least so as to distinguish one figure from another. Nothing was visible, nor could be visible, to us, except Straight Lines; and the necessity of this I will speedily demonstrate.

Place a penny on the middle of one of your tables in Space; and leaning over it, look down upon it. It will appear a circle.

But now, drawing back to the edge of the table, gradually lower your eye (thus bringing yourself more and more into the condition of the inhabitants of Flatland), and you will find the penny becoming more and more oval to your view, and at last when you have placed your eye exactly on the edge of the table (so that you are, as it were, actually a Flatlander) the penny will then have ceased to appear oval at all, and will have become, so far as you can see, a straight line.

The same thing would happen if you were to treat in the same way a Triangle, or a Square, or any other figure cut out from pasteboard. As soon as you look at it with your eye on the edge of the table, you will find that it ceases to appear to you as a figure, and that it becomes in appearance a straight line. Take for example an equilateral Triangle--who represents with us a Tradesman of the respectable class. Figure 1 represents the Tradesman as you would see him while you were bending over him from above; figures 2 and 3 represent the Tradesman, as you would see him if your eye were close to the level, or all but on the level of the table; and if your eye were quite on the level of the table (and that is how we see him in Flatland) you would see nothing but a straight line.

When I was in Spaceland I heard that your sailors have very similar experiences while they traverse your seas and discern some distant island or coast lying on the horizon. The far-off land may have bays, forelands, angles in and out to any number and extent; yet at a distance you see none of these (unless indeed your sun shines bright upon them revealing the projections and retirements by means of light and shade), nothing but a grey unbroken line upon the water.

Well, that is just what we see when one of our triangular or other acquaintances comes towards us in Flatland. As there is neither sun with us, nor any light of such a kind as to make shadows, we have none of the helps to the sight that you have in Spaceland. If our friend comes closer to us we see his line becomes larger; if he leaves us it becomes smaller; but still he looks like a straight line; be he a Triangle, Square, Pentagon, Hexagon, Circle, what you will--a straight Line he looks and nothing else.

You may perhaps ask how under these disadvantageous circumstances we are able to distinguish our friends from one another: but the answer to this very natural question will be more fitly and easily given when I come to describe the inhabitants of Flatland. For the present let me defer this subject, and say a word or two about the climate and houses in our country.

How does this relate to coffee? We direct the reader to \cite{Trembly98}, \cite{Childish07},

\include{1-introduction}

```

\include{2-related}
\include{3-model}
\include{4-predictions}

\chapter{Conclusions}

We conclude that graduate students like coffee.
\iffalse
<example>
\fi

```

---

## 1.5 Reference Matter

`\appendix` To switch from the body of your thesis to the reference material at the end, you should use the standard L<sup>A</sup>T<sub>E</sub>X `\appendix` command. In `uiucthesis2014`, there is also a starred version of this command that eliminates the lettering of the appendices (use if you have a single appendix). Note that if you use `\appendix*` along with the `[fancy]` option, you may want to put “Appendix:” at the beginning of the chapter title.

---

```

\appendix*

\include{Appendix.tex}

```

---

## 1.6 Back Matter

`\backmatter` The last few chapters in your thesis should not have chapter numbers, but should be listed in the Table of Contents. These chapters include the Bibliography and the Index. L<sup>A</sup>T<sub>E</sub>X’s `\backmatter` command accomplishes this.

`\bibliography` Use the standard L<sup>A</sup>T<sub>E</sub>X bibliography commands to create your bibliography. Most people will use Bib<sub>T</sub>E<sub>X</sub> to do this. (See [3]). For those in the sciences, you may want to check out the `cite` package (it’s pretty standard), which will produce numerical citations that are sorted and compressed. You can also use the `natbib` package. Both of these packages can do either bracketed citations or superscript citations.

---

```

\backmatter

\bibliographystyle{apalike}
\bibliography{thesisbib}

\end{document}

```

---

## 2 User Customization

`\drafthead` If you don’t like the header that the `[draftthesis]` option creates, you can redefine the `\drafthead` command so that it produces whatever text you want.



<code>\thesisspacing</code>	The uiucthesis2014 class loads <code>setspace</code> for the line spacing commands. See the documentation in that package for more information on the commands it provides. By default, uiucthesis2014 uses one and a half line spacing, or double spacing if the <code>[fullpage]</code> option is specified. If you're unhappy with that, you can override it by redefining the <code>\thesisspacing</code> command.
<code>\nocopyrightpage</code>	Unless the <code>[draftthesis]</code> option is used, a page with the copyright notice is printed before the title page. If you don't want this page to appear, even in the final version, put the <code>\nocopyrightpage</code> macro somewhere in the preamble.
<code>\toclabels</code>	Some departments require the Table of Contents, List of Tables and List of Figures to have a "Page" heading over the page numbers on the first page. This can be accomplished by putting the <code>\toclabels</code> command somewhere before the <code>\tableofcontents</code> command. (NOTE: if you put the <code>\tableofcontents</code> command in a separate file that you <code>\include</code> in the main file, the <code>\toclabels</code> command must also be in that file.)
<code>\chaptertitlefont</code>	These macros contain the font declarations for the corresponding sectioning levels and can be redefined to suit your aesthetic desires. Use <code>\renewcommand</code> to do this in the preamble.
<code>\sectiontitlefont</code>	
<code>\subsectiontitlefont</code>	The <code>\chapternumberfont</code> macro is really most applicable when the <code>[fancy]</code> option is used. It specifies the font declaration used for the chapter number set in the left margin next to the title. Otherwise it specifies the font used to print the words "Chapter #" at the top of each chapter's opening page. Use <code>\renewcommand</code> to redefine this macro in the preamble.
<code>\subsubsectiontitlefont</code>	
<code>\chapternumberfont</code>	
<code>\chaptertitleheight</code>	<code>\chaptertitleheight</code> is the amount of space allotted for the chapter title at the top of the page. You can redefine it using <code>\setlength</code> in the preamble.
<code>\bibname</code>	<code>\bibname</code> is a standard L <sup>A</sup> T <sub>E</sub> X macro that contains the title of the reference section at the end of your thesis; "References" by default. Use <code>\renewcommand</code> to redefine it in the preamble.
<code>\abstractname</code>	Like above, but for the abstract. By default, "Abstract".
other "name"s	Similarly, the titles for the Table of Contents, List of Figures, and List of Tables are stored in the macros <code>\contentsname</code> , <code>\listfigurename</code> , and <code>\listtablename</code> , respectively. Their default values are the names in the previous sentence. There are also the macros <code>\chaptername</code> , <code>\appendixname</code> , <code>\indexname</code> , <code>\partname</code> , <code>\tablename</code> , and <code>\figurename</code> that contain the appellations for chapter and appendix headings (not applicable with the <code>[fancy]</code> option), the index, parts, tables, and figures. Their default values are Chapter, Appendix, Index, Part, Table, and Figure, respectively. All of these macros can be redefined in the preamble with <code>\renewcommand</code> . These macros are all part of the standard L <sup>A</sup> T <sub>E</sub> X formalism, they are just included here for the reader's convenience. For example, some departments require chapter headings to be in all caps, which can be done by changing the <code>\chaptername</code> macro to be CHAPTER.
<code>\note</code>	This command inserts a marginal note just like <code>\marginpar</code> with two distinctions: First, the note is single-spaced in a smaller type for compactness. Second, it is only printed when the <code>[draftthesis]</code> option is used. Since marginal notes are not allowed in the final draft, the <code>\note</code> command is recommended over the <code>\marginpar</code> command.

### 3 Backwards Compatibility

Compatibility with previous versions of `uiucthesis2014` are supported. Previously it was implemented as a package rather than a class, in which case you opened the document with:

---

```
\documentclass[oneside,...]{book}
\usepackage[...]{uiucthesis2014}
```

---

To provide backwards-compatibility, a style file is provided that has the same functionality of the class file described herein. Similarly, (really) old versions of `uiucthesis2014` used the `preliminary` and `thesis` environments, which are now deprecated but backwards-compatibility support is still provided.

### 4 Other Issues

#### 4.1 Paper Size and PDF Files

The default paper size for most  $\text{\LaTeX}$  distributions is A4, which is slightly different the 8.5 x 11 size for letter paper in the U.S. The Graduate College requires theses to be letter paper size. In addition, many departments want soft copies of the thesis in PDF format. Unfortunately, the program used to convert the dvi file to PDF format (`dvipdfm` on my computer, which is a Windows machine with  $\text{\TeX}$  installed on it) often produces PDF files in A4 format, even if `letterpaper` is specifically specified in the your  $\text{\TeX}$ source file. If you're having this problem, either run the PDF conversion utility from the command line with the right flag — for example, `dvipdfm -p letter` on my computer — or change the default paper size in the config file for your PDF conversion utility, which will then fix this problem permanently. On my computer, this can be done by going to the `dvipdfm\config` subdirectory off of the main  $\text{\TeX}$ installation directory (usually `C:\texmf`). In this directory is a file called `config` that has a line for the default paper size.

#### 4.2 Reference Lists at the Chapter Level

The `cite` package includes a style file `chapterbib.sty` that can be used to do a list of references for each chapter instead of just one big list at the end of the thesis. I've not used this style before so you're on your own if you want to do this, but I think it is rather straightforward....

### 5 Implementation

This section shows the implementation of the `uiucthesis2014` class. Unless you are interested in the details of how `uiucthesis2014` works, you probably don't need to read it.

## 5.1 Compatibility

Provide compatibility with older versions of L<sup>A</sup>T<sub>E</sub>X.

```
\@ifundefined
1 \expandafter\ifx\csname @ifundefined\endcsname\relax
2 \def\@ifundefined#1{%
3 \expandafter\ifx\csname#1\endcsname\relax
4 \expandafter\@firstoftwo
5 \else
6 \expandafter\@secondoftwo
7 \fi}
8 \fi

\MakeUppercase
9 \@ifundefined{MakeUppercase}{\let\MakeUppercase=\uppercase}{}
```

## 5.2 Option Processing

```
10 \newif\if@thesisdraft \@thesisdraftfalse
11 \newif\if@thesisfancy \@thesisfancyfalse
12 \newif\if@fullpage \@fullpagefalse
13 \newif\if@largecaps \@largecapsfalse
14 \newif\if@proquest \@proquestfalse
15 \newif\if@edeposit \@edepositfalse
16 \newif\if@thesisoffcenter \@thesisoffcenterfalse
17 \newif\if@centerchapter \@centerchapterfalse

18 \DeclareOption{draftthesis}{\@thesisdrafttrue}
19 \DeclareOption{fancy}{\@thesisfancytrue}
20 \DeclareOption{fullpage}{\@fullpagetrue}
21 \DeclareOption{proquest}{\@proquesttrue}
22 \DeclareOption{toclabels}{\AtBeginDocument{\toclabels}}
23 \DeclareOption{edeposit}{\@edeposittrue}
24 \DeclareOption{offcenter}{\@thesisoffcentertrue}
25 \DeclareOption{centerchapter}{\@centerchaptertrue}
```

The [largecaps] option causes the title and author’s name to be use a “large caps” font on the title page. Otherwise, uiucthesis2014 just converts them to uppercase and uses the normal fonts. The difference is that the spacing between the characters in the large caps font is tuned for setting type in all caps.

The large caps font is *not a standard font*, and so it will not exist unless you have installed it.

```
26 \DeclareOption{largecaps}{\@largecapstrue}
```

Load the book class with the [oneside] and [letterpaper] options

```
27 <class>\DeclareOption*{\PassOptionsToClass{\CurrentOption}{book}}
28 <class>\PassOptionsToClass{letterpaper,oneside}{book}
29 \ProcessOptions
30 <class>\LoadClass{book}
```

If the [proquest] option is used, turn off output to auxiliary files so that the thesis doesn't have to be recompiled again to get all the references correct. Also double-space the ProQuest abstract and use the full page.

```
31 \if@proquest
32   \nofiles      % don't overwrite the .aux files
33   \def\makeindex{}
34   \@thesisfancyfalse
35   \@fullpagetrue
36 \fi
```

If the [draftthesis] option was specified, define the \drafthead macro.

```
37 \ifthesisdraft
38   \newcount\timehh\newcount\timemm
39   \timehh=\time \divide\timehh by 60
40   \timemm=\time \count255=\timehh \multiply\count255 by -60
41   \advance\timemm by \count255
42   \def\drafthead{\slshape Draft of \today\ at
43   \ifnum\timehh<10 0\fi\number\timehh\,.\, \ifnum\timemm<10 0\fi\number\timemm}%
44 \fi
```

Define the \toclabels command which prints the headings in the Table of Contents, List of Figures and List of Tables.

```
45 \newcommand{\toclabels}{%
46   \addtocontents{toc}{\vspace*{-\baselineskip}\hfill Page\endgraf}%
47   \addtocontents{lof}{\vspace*{-\baselineskip}\hfill Figure\endgraf}%
48   \addtocontents{lot}{\vspace*{-\baselineskip}\hfill Table\endgraf}}
```

### 5.3 Title Page

\title Override the standard definitions of \title and \author to also define uppercased versions.

```
49 \def\mkuptitle#1{\gdef\@Utitle{#1}}
50 \def\title#1{\gdef\@title{#1}\MakeUppercase{\protect\mkuptitle{#1}}}
51 \def\mkupauthor#1{\gdef\@Uauthor{#1}}
52 \def\author#1{\gdef\@author{#1}\MakeUppercase{\protect\mkupauthor{#1}}}
```

\phdthesis Macros to set title page elements.

```
\msthesis 53 \def\phdthesis{\def\@degree{Doctor of Philosophy}
\otherdoctorate 54   \def\degree{Ph.D.}
\othermasters 55   \def\@thesistitle{DISSERTATION}
\department 56   \def\@committeename{Doctoral Committee:}
\college 57   }
\schools 58 \def\msthesis{\def\@degree{Master of Science}
\degreeyear 59   \def\degree{M.S.}
\committee 60   \def\@thesistitle{THESIS}
\volume 61   \def\@committeename{Master's Committee:}
62   }
63 \newcommand{\otherdoctorate}[2]{\def\@degree{#1}
64   \def\degree{#2}
65   \def\@thesistitle{DISSERTATION}
66   \def\@committeename{Doctoral Committee:}}
```

```

67     }
68 \newcommand{\othermasters}[2]{\def\@degree{#1}
69     \def\degree{#2}
70     \def\@thesisname{THESIS}
71     \def\@committeename{Master's Committee:}
72     }
73 \def\department#1{\def\@dept{#1}}
74 \def\college#1{\def\@college{#1}}
75 \def\schools#1{\def\@schools{#1}}
76 \def\degreeyear#1{\def\@degreeyear{#1}}
77 \newcommand{\committee}[1]{\gdef\@committee{#1}}
78 \newcommand*{\volume}[1]{\gdef\thesis@volume{VOLUME~#1}}
79 \newcommand*{\thesis@volume}{}
80 \if@edeposit
81     \gdef\@committee{%
82 <class>      \ClassError{uiucthesis2014}{A committee must be specified for e-deposit dissertations.
83 <package>    \PackageError{uiucthesis2014}{A committee must be specified for e-deposit dissertat
84     {Use \protect\committee\space with members separated by \protect\\'s.}}
85 \fi

\copyrightnotice Define the copyright notice as a macro so that the user can change it if desired.
86 \def\copyrightnotice{\copyright~\@degreeyear~by \@author. All rights reserved.}

\nocopyrightpage The printing of the copyright page can also be turned off with the \nocopyrightpage
command (must come before \maketitle):
87 \newif\if@thesisrpage \@thesisrpagetrue
88 \let\nocopyrightpage\@thesisrpagefalse
89 \if@thesisdraft\nocopyrightpage\fi

    Set the default title page elements.
90 \phdthesis
91 \department{Computer Science}
92 \college{Graduate College}
93 \def\@schools{}
94 \def\@degreeyear{\number\year}

\maketitle Redefine book's \maketitle command to produce the titlepage in the correct
format.
95 \renewcommand\maketitle{

Print the copyright page if we're supposed to.
96     \if@thesisrpage
97         \newpage
98         \thispagestyle{empty}
99         \null\vfill
100        \centerline{\copyrightnotice}%
101        \vskip 3ex % skip to visually center copyright notice
102        \vfill
103    \fi

```

Now start a new page for the title page. It is single-spaced.

```

104 \newpage
105 \thispagestyle{empty}%
106 \enlargethispage{1in}%
107 \begingroup
108 \def\baselinestretch{1}

```

Check what size font we are using for the text and select a smaller size appropriately.

```

109 \ifnum \@ptsize=2
110     \@normalsize
111     \newcommand{\thesis@small}{\small}
112 \else
113     \large
114     \newcommand{\thesis@small}{\@normalsize}
115 \fi

```

We have to be careful to get the vertical position right. The easiest way to do this seems to be to just set `\topmargin`, `\headheight`, and `\headsep` for this page.

```

116 \headheight=0pt \headsep=0pt
117 \topmargin=0in

```

Adjust the horizontal spacing so that the title page is centered on the page even if the rest of the document isn't. I'm not sure when `\textwidth` changes take place, so instead we calculate the correct `\oddsidemargin` to center the text column.

```

118 \@tempdima=\paperwidth
119 \advance\@tempdima by -\textwidth
120 \divide\@tempdima by 2
121 \advance\@tempdima by -1in
122 \oddsidemargin=\@tempdima
123 \let\evensidemargin=\oddsidemargin
124

```

Create the title page. Different spacing is used depending on whether the `[edeposit]` option is specified. Include the committee and the paragraph at the bottom of the page for e-deposit theses, as required by the Grad College.

```

125 \newdimen\thesis@dim
126 \if@edeposit
127     \thesis@dim=1.5in
128 \else
129     \thesis@dim=1.5in
130 \fi
131 \newdimen\ct@dim
132 \newdimen\cn@dim
133 \ct@dim=\oddsidemargin
134 \advance\ct@dim by -0.3125in
135 \cn@dim=\oddsidemargin
136 \advance\cn@dim by -0.6875in
137 \if@largecaps
138     \def\lc@selectfont{\fontshape{lc}\selectfont}%
139 \else

```

```

140      \def\lc@selectfont{%
141      \fi
142      \begin{center}
143      \if@edeposit
144        \vbox to 1in{}
145      \else
146        \vbox to 1in{}
147      \fi
148      \vbox to \thesis@dim{%
149        {\lc@selectfont\@Utitle}
150        \if@thesisdraft
151          \\\[12pt]
152          \drafthead
153          \fi
154          \vfil}%
155      \vbox to 1.5in{%
156        {\lc@selectfont BY}\\\[12pt]
157        {\lc@selectfont\@Uauthor}\\\[12pt]
158        \vfil}%
159      \vbox to 0.5in{\thesis@volume\vfil}
160      \vbox to 2.0in{%
161        {\lc@selectfont \@thesisname}\\\[12pt]
162        Submitted in partial fulfillment of the requirements\\
163        for the degree of \@degree\ in \@dept\\
164        in the \@college\ of the\\
165        University of Illinois at Urbana-Champaign, \@degreeyear\vfil}
166      \vskip -2ex
167      \vbox to 0.35in{
168        Urbana, Illinois}
169      \end{center}
170      \begin{flushleft}
171        \vbox to 0.3in{
172          \hspace{-\ct@dim}\@committeename\\
173          \hspace{-\cn@dim}\begin{tabular}{l}\@committee\end{tabular}\vfil
174        \end{flushleft}
175      \newpage
176      \endgroup
177 }

```

## 5.4 Front Matter

`\frontmatter` Redefine `\frontmatter` so that it sets the page number to 2 or 3, depending on whether or not the `[edeposit]` option is given.

```

178 \let\thesis@frontmatter=\frontmatter
179 \def\frontmatter{%
180   \thesis@frontmatter
181   \if@edeposit
182     \setcounter{page}{2}
183   \else

```

```

184         \setcounter{page}{3}
185     \fi}

```

## 5.5 Table of Contents

`\contentsname` Use “Table of Contents” instead of “Contents”.

```

186 \renewcommand\contentsname{Table of Contents}

```

`\l@chapter` This code is a modified version of the code in the 1996/05/26 release of `classes.dtx` that produces leader dots between the chapter name and the page number.

This macro formats the entries in the table of contents for chapters. It is very similar to `\l@part`

First we make sure that if a pagebreak should occur, it occurs *before* this entry. Also a little whitespace is added and a group begun to keep changes local.

```

187 \renewcommand*\l@chapter[2]{%
188     \ifnum \c@tocdepth > \m@ne
189         \addpenalty{-\@highpenalty}%
190         \vskip 1.0em \@plus 0.2em \@minus 0.2em

```

The macro `\numberline` requires that the width of the box that holds the part number is stored in L<sup>A</sup>T<sub>E</sub>X’s scratch register `\@tempdima`. Therefore we put it there. We begin a group, and change some of the paragraph parameters. These are different from the defaults for the standard report or book class.

```

191     \setlength\@tempdima{1.5em}
192     \begingroup
193         \leftskip \z@ \rightskip \@tocrmarg \parfillskip -\rightskip
194         \parindent \z@

```

Then we leave vertical mode and switch to a bold font.

```

195         \leavevmode \bfseries

```

Because we do not use `\numberline` here, we have to do some fine tuning ‘by hand’, before we can set the entry. We discourage but not disallow a pagebreak immediately after a chapter entry. We use leaders between the chapter title and the page number, unlike the standard report or book class.

```

196         \advance\leftskip\@tempdima
197         \hskip -\leftskip
198         #1\nobreak
199         \leaders\hbox{$\m@th\mkern\@dotsep mu\hbox{.}\mkern\@dotsep mu$}
200         \hfil \nobreak\hbox to\@pnumwidth{\hss #2}\par
201         \penalty\@highpenalty
202     \endgroup
203 \fi}

```

`\tableofcontents` We want the Table of Contents to be single-spaced, so we save the original definition, and then arrange it so that the new `\tableofcontents` calls `\singlespacing` before calling the original definition. Then set the flag mentioned above.

```

204 \let\thesis@tableofcontents=\tableofcontents
205 \def\tableofcontents{\singlespacing\thesis@tableofcontents}

```



`\listoftables` Similarly, redefine `\listoftables` and `\listoffigures` so that they use single spacing.

```
206 \let\thesis@listoftables=\listoftables
207 \def\listoftables{\newpage%
208   \addcontentsline{toc}{chapter}{\listtablename}%
209   {\singlespacing\thesis@listoftables}}
210 \let\thesis@listoffigures=\listoffigures
211 \def\listoffigures{\newpage%
212   \addcontentsline{toc}{chapter}{\listfigurename}%
213   {\singlespacing\thesis@listoffigures}}
```

## 5.6 Other Frontmatter

`abstract` The `abstract` environment is special because its contents are also used for the ProQuest abstract, which we need the advisor's name for:

`\adviser` Two versions of this macro are provided due to the ambiguity of the spelling of  
`\advisor` the word "advisor".

```
214 \newcommand*{\advisor}[1]{\gdef\@advisor{#1}}
215 \newcommand*{\adviser}[1]{\gdef\@advisor{#1}}
```

If the `[proquest]` option was specified, erase the definition for `\maketitle` since we don't want a title page, and print an error if the advisor's name is not specified. Then define the `abstract` environment to create the ProQuest abstract and then end the document.

```
216 \def\abstractname{Abstract}
217 \if@proquest
218   \def\maketitle{}
219   \def\@advisor{%
220     \ClassError{uiucthesis2014}{An advisor must be specified for the ProQuest abstract}%
221     \PackageError{uiucthesis2014}{An advisor must be specified for the ProQuest abstract}%
222     {Use \protect\advisor\space to specify a name}}
223   \newenvironment{abstract}{%
224     \newpage
225     \pagestyle{empty}
226     \setcounter{page}{1}
227     \begin{singlespace}\begin{center}
228       \@Utitle\\[\baselineskip]
229       \@author, \degree\\
230       Department of \@dept\\
231       University of Illinois at Urbana-Champaign, \@degreeyear\\
232       \@advisor, Adviser\\[\baselineskip]
233     \end{center}\end{singlespace}\par\noindent\ignorespaces
234   }{
235     \newpage
236     \aftergroup\enddocument
237     \aftergroup\endinput
238   }
```

If we are doing normal processing (no `[proquest]` option), simply define the `abstract` environment to start a regular chapter.

```
239 \else
240 \newenvironment{abstract}{\chapter*{\abstractname}}{}
241 \fi
```

**dedication** The `dedication` environment just starts a new page and prints the dedication in the center in italics.

```
242 \newenvironment{dedication}{
243     \newpage
244     \leavevmode\vfill
245     \begin{center}
246     \itshape
247     }{
248     \end{center}
249     \vskip 3ex
250     \vfill
251     \newpage
252 }
```

**sybollist** The `sybollist` environments can be used to create a list of symbols or abbrevia-  
**sybollist\*** tions. The starred version left-justifies the left column (good for lists of abbrevia-  
 tions) whereas the unstarred version centers the contents of the left column (good  
 for lists of symbols).

```
253 \newenvironment*{sybollist}[1][1in]{
254     \begin{list}{}{\singlespacing
255     \setlength{\leftmargin}{#1}
256     \setlength{\labelwidth}{#1}
257     \addtolength{\labelwidth}{-\labelsep}
258     \setlength{\topsep}{0in}}%
259     \def\makelabel##1{\hfil##1\hfil}%
260     }{
261     \end{list}}
262 \newenvironment*{sybollist*}[1][1in]{
263     \begin{sybollist}[#1]
264     \def\makelabel##1{##1\hfil}}
265     {\end{sybollist}}
```

## 5.7 Chapter Headings

Text of chapter title must match exactly with text in Table of Contents. We support both plain chapter headings and “fancy” chapter headings.

**\chapternumberfont** Define the font used for chapter numbers in fancy chapter headings. If you’re using scalable PostScript fonts, you might want to override it, for example:

```
\renewcommand\chapternumberfont{
    \fontseries{bx}\fontsize{72}{72}\selectfont}
```

```

266 \if@thesisfancy
267   \font\cminch=cminch at 60pt
268   \newcommand\chapternumberfont{\cminch}
269 \else
270   \newcommand\chapternumberfont{\huge\bfseries}
271 \fi

\chaptertitlefont Define the font used for chapter titles.
272 \newcommand\chaptertitlefont{\Huge\bfseries}

\@chapter This macro is called when we have a numbered chapter. When secnumdepth is
larger than -1 and, in the book class, \@mainmatter is true, we display the chapter
number. We also inform the user that a new chapter is about to be typeset by
writing a message to the terminal. This definition is the same as that in book.cls
except that it makes different entries in the table of contents for fancy chapter
heads.

273 \def\@chapter[#1]#2{%
274   \ifnum \c@secnumdepth >\m@ne
275     \if@mainmatter
276       \refstepcounter{chapter}%
277       \typeout{\@chapapp\space\thechapter.}%
278       \if@thesisfancy
279         \addcontentsline{toc}{chapter}%
280           {\protect\numberline{\thechapter}#1}%
281       \else
282         \addcontentsline{toc}{chapter}%
283           {\@chapapp\ \thechapter\quad #1}%
284       \fi
285     \else
286       \addcontentsline{toc}{chapter}{#1}%
287     \fi
288   \else
289     \addcontentsline{toc}{chapter}{#1}%
290   \fi

  After having written an entry to the table of contents we store the (alternative)
  title of this chapter with \chaptermark and add some white space to the lists of
  figures and tables.

291   \chaptermark{#1}%
292   \addtocontents{lof}{\protect\addvspace{10\p@}}%
293   \addtocontents{lot}{\protect\addvspace{10\p@}}%

  Then we call upon \@makechapterhead to format the actual chapter title. We
  have to do this in a special way when we are in twocolumn mode in order to
  have the chapter title use the entire \textwidth. In one column mode we call
  \@afterheading, which takes care of suppressing the indentation.

294   \if@twocolumn
295     \@topnewpage[\@makechapterhead{#2}]%
296   \else

```

```

297 \makechapterhead{#2}%
298 \afterheading
299 \fi}

```

For fancy chapter headings, compute the correct height to use for the chapter number. I want the chapter number to be centered on the first line of the chapter title. If  $a$  is the height of the chapter number and  $b$  is the height of the chapter title, then if we set the chapter number in a box of height  $b + (a - b)/2 = (a + b)/2$  then it aligns correctly.

We arrange for this value to be computed at the beginning of the document in case the user loads a style file that changed the default fonts.

In addition, we want the chapter titles to have the same vertical placement on the page, regardless whether the chapter is numbered or not. We compute the distance we have to skip for chapters without numbers to accomplish this and store it in `\thesis@chapskip`.

```

300 \newskip\thesis@chapskip
301 \AtBeginDocument{%
302 \newdimen\chapternumberheight
303 \begingroup
304 \chapternumberfont
305 \setbox255=\hbox{A}
306 \if@thesisfancy
307 \global\thesis@chapskip=\ht255
308 \else
309 \global\thesis@chapskip=\baselineskip
310 \fi
311 \dimen255=\ht255
312 \chaptertitlefont
313 \setbox255=\hbox{A}
314 \advance\dimen255 by \ht255
315 \if@thesisfancy
316 \global\advance\thesis@chapskip by -\ht255
317 \global\divide\thesis@chapskip by 2
318 \global\advance\thesis@chapskip by 10\p@
319 \else
320 \global\advance\thesis@chapskip by 20\p@
321 \fi
322 \divide\dimen255 by 2
323 \global\chapternumberheight=\dimen255
324 \endgroup}

```

`\chaptertitleheight` The amount of space allotted for the chapter titles is stored in `\chaptertitleheight`. In this manner, the chapter text always appears at the same vertical place for each chapter, even if the title spills over into multiple lines.

```

325 \newlength{\chaptertitleheight}
326 \if@thesisfancy
327 \setlength{\chaptertitleheight}{1.5in}
328 \else

```

```

329 \setlength{\chaptertitleheight}{1.85in}
330 \fi

```

**\@makechapterhead** The macro `\@chapter` uses `\@makechapterhead<text>` to format the heading of the chapter. This is a modified version of the standard `\@makechapterhead`. It sets the chapter heading in single spacing, and it handles the fancy heading style. The whole heading is placed in a `\vbox` so that it is confined to the spacing allotted to it as defined in `\chaptertitleheight`.

```

331 \def\@makechapterhead#1{%
332   \vbox to \chaptertitleheight{
333     \def\baselinestretch{1}\@normalsize
334     \parindent \z@ \raggedright \normalfont
335     \if@centerchapter
336       \centering
337     \fi
338     \ifnum \c@secnumdepth >\m@ne
339       \if@mainmatter
340         \thesis@chapskip=\z@
341         \if@thesisfancy
342           \vspace*{10\p@}%
343           \leavevmode\llap{\vbox to \chapternumberheight{\hbox{%
344             \chapternumberfont\thechapter\,}\vss}}}%
345         \else
346           {\chapternumberfont \@chapapp\space \thechapter}
347         \par\nobreak
348         \vskip 20\p@
349       \fi
350     \fi
351     \fi
352     \interlinepenalty\@M
353     \vspace*{\thesis@chapskip}%
354     \chaptertitlefont #1
355     \vfil
356   }%
357   \par\nobreak%
358 }

```

**\@makeschapterhead** The macro `\@schapter` uses `\@makeschapterhead<text>` to format the heading of the chapter. It is similar to `\@makechapterhead` except that it never has to print a chapter number.

```

359 \def\@makeschapterhead#1{%
360   \vbox to \chaptertitleheight{
361     \def\baselinestretch{1}\@normalsize
362     \parindent \z@ \raggedright \normalfont
363     \if@centerchapter
364       \centering
365     \fi
366     \interlinepenalty\@M
367     \vspace*{\thesis@chapskip}

```

```

368     \chaptertitlefont #1
369     \vfil
370 }%
371 \par\nobreak%
372 }

```

## 5.8 Lower Level Headings

`\sectiontitlefont` These macros contain the font declarations for the sectioning titles.

```

\subsectiontitlefont 373 \newcommand{\sectiontitlefont}{\Large\bfseries}
\subsubsectiontitlefont 374 \newcommand{\subsectiontitlefont}{\large\bfseries}
375 \newcommand{\subsubsectiontitlefont}{\normalsize\bfseries}

```

`\section` We redefine the lower level headings to set their titles ragged right. We don't have

`\subsection` to change sectioning commands below `subsubsection` because they produce run-in

`\subsubsection` headings.

```

376 \renewcommand\section{\@startsection {section}{1}{\z@}%
377   {-3.5ex \@plus -1ex \@minus -.2ex}%
378   {2.3ex \@plus .2ex}%
379   {\raggedright\normalfont\sectiontitlefont}}
380 \renewcommand\subsection{\@startsection{subsection}{2}{\z@}%
381   {-3.25ex \@plus -1ex \@minus -.2ex}%
382   {1.5ex \@plus .2ex}%
383   {\raggedright\normalfont\subsectiontitlefont}}
384 \renewcommand\subsubsection{\@startsection{subsubsection}{3}{\z@}%
385   {-3.25ex \@plus -1ex \@minus -.2ex}%
386   {1.5ex \@plus .2ex}%
387   {\raggedright\normalfont\subsubsectiontitlefont}}

```

## 5.9 Appendices

`\appendix` Redefine the `\appendix` macro so that it can take a star if unlettered appendices are desired.

```

388 \let\thesis@appendix\appendix
389 \renewcommand\appendix{\thesis@appendix\@ifstar{\gdef\thechapter{}}{}}

```

## 5.10 Bibliography

`\bibname` UIUC Thesis format says that if references are cited as “[1]” then one of the terms “References,” “List of References,” or “Literature Cited” should be used instead of “Bibliography.”

```

390 \renewcommand\bibname{References}

```

`thebibliography` The standard definition of `thebibliography` environment issues the `\chapter*` command, which does not make the necessary entry to the TOC. Here the environment is redefined so that the unstarred version is used instead. In addition, the environment is also single-spaced for aesthetics. These modifications are done at the

beginning of the document since some packages (natbib in particular) change the definition of thebibliography environment.

```

391 \AtBeginDocument{\let\thesis@thebib\thebibliography
392   \let\thesis@endbib\endthebibliography
393   \def\thebibliography{\begingroup\singlespacing%
394     \chapter{\bibname}%
395     \let\chapter@gobbletwo%
396     \thesis@thebib}
397   \def\endthebibliography{\thesis@endbib\endgroup}}
```

## 5.11 Index

**theindex** The index is single spaced and a line is added to the Table of Contents.

```

398 \let\thesis@theindex=\theindex
399 \def\theindex{\addcontentsline{toc}{chapter}{\indexname}%
400   \begingroup\singlespacing\thesis@theindex}
401 \let\thesis@endtheindex=\endtheindex
402 \def\endtheindex{\thesis@endtheindex\endgroup}
```

## 5.12 Page Layout

First we set the vertical layout. Adjust the height of the text column so that it takes up the full height of an 8.5 by 11 inch page.

```

403 \topmargin=0pt
404 \advance \topmargin by -\headheight
405 \advance \topmargin by -\headsep
406 \textheight 8.9in
```

Next, set the horizontal layout.

The standard for technical papers seems to be to use extremely wide columns of text, and then to increase the spacing between lines to compensate for the long lines. Unfortunately, because so many papers are typeset this way, the format has become self-propagating.

The [fullpage] option sets one-inch margins.

```

407 \if@fullpage
408   \setlength{\textwidth}{\paperwidth}
409   \addtolength{\textwidth}{-2in}
410   \settopoint\textwidth
411 \fi
```

In the old version of uiucthesis2014, (past versions used the name uiucthesis) the “fancy” thesis style used an asymmetric page layout, shifting the text column slightly over to the right to leave room for the chapter number to the left of the chapter title. This layout is still used if the [offcenter] option is given, otherwise symmetric margins are used.

```

412 \setlength{\@tempdima}{\paperwidth}
413 \addtolength{\@tempdima}{-\textwidth}
414 \setlength{\oddsidemargin}{.5\@tempdima}
```

```

415 \addtolength{\oddsidemargin}{-1in}
416 \if@thesisoffcenter
417   \addtolength{\oddsidemargin}{0.5in}
418   \addtolength{\textwidth}{-0.5in}
419   \reversemarginpar
420 \fi

```

Set `\marginparwidth`, leaving 24pt for the right margin. Note that you're not allowed to actually use a marginal paragraph this close to the edge in the final version of a thesis, but it is still handy for leaving notes to yourself in the draft (with the `\note` command, see below).

```

421 \setlength{\marginparwidth}{\oddsidemargin}
422 \addtolength{\marginparwidth}{1in}
423 \addtolength{\marginparwidth}{-\marginparsep}
424 \addtolength{\marginparwidth}{-24pt}

```

Use the same margins for even and odd pages. Use the L<sup>A</sup>T<sub>E</sub>X macro `\settopoint` to truncate arithmetic errors.

```

425 \@settopoint\oddsidemargin
426 \@settopoint\marginparwidth
427 \setlength{\evensidemargin}{\oddsidemargin}

```

### 5.13 Making Notes

`\note` You can leave yourself marginal notes using the `\note{<text>}` macro. If the final draft is being printed (i.e., no `[draftthesis]` option) then these notes are not printed.

```

428 \if@thesisdraft
429   \newcommand{\note}[1]{\marginpar{\def\baselinestretch{1}\small\raggedright #1}}
430 \else
431   \newcommand{\note}[1]{}
432   \let\thesis@marginpar\marginpar
433   \def\marginpar{%
434     \ClassWarning{uiucthesis2014}{Margin paragraphs fall outside the allowed margins\M
435     \PackageWarning{uiucthesis2014}{Margin paragraphs fall outside the allowed marg
436       for UIUC Theses, use \protect\note\space instead of \protect\marginpar.}%
437     \thesis@marginpar}
438 \fi

```

### 5.14 Page Numbering

Page numbers must be in one of three places, and must appear in the same place on *every page*, including chapter openings.

To accommodate the draft heading, we redefine the plain page style.

`\ps@plain`

```

439 \def\ps@plain{%
440   \let\@mkboth\@gobbletwo
441   \if@thesisdraft

```



```

442 \def\@oddhead{\drafthead\hfil}
443 \else
444 \let\@oddhead\@empty
445 \fi
446 \let\@evenhead\@oddhead
447 \def\@oddfoot{\reset@font\hfil\thepage\hfil}%
448 \let\@evenfoot\@oddfoot
449 }

```

`\ps@headings` The “headings” page style is also supported. The heading at the top will be within the 1 inch margin that you are supposed to allow, however. If the `[draftthesis]` option is given, there is probably not enough room for both the chapter number and title, so just print the number in that case.

```

450 \if@twoside
451 \def\ps@headings{%
452 \if@thesisdraft
453 \def\@oddhead{\drafthead\hfil\slshape\rightmark}
454 \def\@evenhead{\slshape\leftmark\hfil\drafthead}
455 \else
456 \def\@oddhead{\hfil\slshape\rightmark}
457 \def\@evenhead{\slshape\leftmark\hfil}
458 \fi
459 \def\@oddfoot{\reset@font\hfil\thepage\hfil}%
460 \let\@evenfoot\@oddfoot
461 \let\@mkboth\markboth
462 \if@thesisdraft
463 \def\chaptermark##1{%
464 \markboth {\MakeUppercase{%
465 \ifnum \c@secnumdepth >\m@ne
466 \if@mainmatter
467 \@chapapp\ thechapter%
468 \fi
469 \fi}}{}}
470 \else
471 \def\chaptermark##1{%
472 \def\@chaphead{\MakeUppercase{%
473 \ifnum \c@secnumdepth >\m@ne
474 \if@mainmatter
475 \if@thesisfancy
476 \thechapter.~~%
477 \else
478 \@chapapp\ thechapter.~~%
479 \fi
480 \fi
481 \fi
482 ##1}}%
483 \markboth{\@chaphead}{\@chaphead}}
484 \fi
485 \def\sectionmark##1{%

```

```

486     \markright {\MakeUppercase{%
487         \ifnum \c@secnumdepth >\z@
488             \thesection. \ %
489         \fi
490     ##1}}}}
491 \else
492 \def\ps@headings{%
493     \if@thesisdraft
494         \def\@oddhead{\drafthead\hfil\slshape\rightmark}
495     \else
496         \def\@oddhead{\hfil\slshape\rightmark\hfil}
497     \fi
498     \let\@evenhead\@oddhead
499     \def\@oddfoot{\reset@font\hfil\thepage\hfil}%
500     \let\@evenfoot\@oddfoot
501     \let\@mkboth\markboth
502     \if@thesisdraft
503         \def\chaptermark##1{%
504             \markright {\MakeUppercase{%
505                 \ifnum \c@secnumdepth >\m@ne
506                     \if@mainmatter
507                         \@chapapp\ \thechapter%
508                     \fi
509                 \fi}}}
510     \else
511         \def\chaptermark##1{%
512             \markright {\MakeUppercase{%
513                 \ifnum \c@secnumdepth >\m@ne
514                     \if@mainmatter
515                         \if@thesisfancy
516                             \thechapter.~~%
517                         \else
518                             \@chapapp\ \thechapter.~~%
519                         \fi
520                     \fi
521                 \fi
522                 ##1}}}
523     \fi
524 }
525 \fi

```

Set the default page style to (our new definition of) plain.

```
526 \pagestyle{plain}
```

`\chapter` Redefine `\chapter` to not do `\thispagestyle{empty}` because even chapter openings should have page numbers in UIUC theses.

```

527 \renewcommand\chapter{\if@openright\cleardoublepage\else\clearpage\fi
528     \@mkboth{}{}
529     \thispagestyle{plain}
530     \global\@topnum\z@

```

```

531 \afterindentfalse
532 \secdef\@chapter\@schapter}

```

## 5.15 Body Formatting

`\thesisspaceing` The `\thesisspaceing` command is called to switch to the default line spacing for the thesis. The thesis format requirements require at least line and a half spacing. The `uiucthesis2014` class by default uses `\onehalfspacing`, or `\doublespacing` if the `[fullpage]` option is in effect.

```

533 \def\thesisspaceing{\if@fullpage\doublespacing\else\onehalfspacing\fi}

```

At this point, we're ready to set up the actual formatting for the front matter of the thesis. We use roman page numbers. Also, arrange so that `\thesisspaceing` gets called when the document begins. We don't just call it here because that wouldn't give the user a chance to override it.

```

534 \pagenumbering{roman}
535 \AtBeginDocument{\thesisspaceing}

```

## 5.16 Compatibility

`preliminary` The old `uiucthesis2014` style defined a `preliminary` environment for the front matter. This isn't needed with this style, so we redefine it to call `\frontmatter` for compatibility's sake.

```

536 \def\preliminary{\frontmatter}
537 \let\endpreliminary=\relax

```

`thesis` Similarly, the old `uiucthesis2014` style defined a `thesis` environment that has been superceded by the `\mainmatter` command. We define it here for backward compatibility.

```

538 \def\thesis{\mainmatter}
539 \let\endthesis=\relax

```

## References

- [1] *Handbook for Graduate Students Preparing to Deposit*. Graduate College, University of Illinois at Urbana-Champaign, 2004
- [2] *Grad College webpage with thesis requirements*. <http://www.grad.illinois.edu/graduate-college-thesis-requirements>
- [3] Leslie Lamport. *L<sup>A</sup>T<sub>E</sub>X: A Document Preparation System*. Addison-Wesley, 1994.