

The `fsuthesis` Class*

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1 Introduction

The `fsuthesis` class may be used to generate Theses and Dissertations in the format required by the Florida State University Graduate School as described by the document *Guidelines & Requirements for Electronic Theses, Treatises and Dissertations*, 2019–2020 edition (revised September 2019). This class extends the standard L^AT_EX document class `report.cls`, adding elements and re-formatting as required to comply with FSU’s standards.

Official changes to this class file will be reflected in the first two elements of the version number. Any local changes to this file may be tracked by incrementing the third element of the version number (see the `\ProvidesClass` macro above in this document’s source code).

Dependencies: In addition to the primary L^AT_EX packages, this class requires the external package `ifpdf`, which ships with most distributions of L^AT_EX.

2 What Has Gone Before

The first FSU L^AT_EX style file was based on macros from Stanford University, modified to comply with FSU standards by Meteorology professor Jon Ahlquist. Mimi Burbank, until her retirement from the Supercomputer Computations Research Institute (SCRI), maintained another set of macros for campus-wide use. Subsequent updates were provided by Wickus Nienaber, a Ph.D. student in Computer Science, and Jack Tyndall, a staff member with the Graduate School.

Started in 2009, this version is an entirely new re-write by Bret Whissel, presently with the FSU Information Technology Services department’s Linux Enterprise Applications and Systems Group. Corrections and improvements should be directed to his attention at `bwhissel@fsu.edu`.

*This document corresponds to `fsuthesis v4.3.0`, dated 2022/03/25.

3 Option Registration

`hardcopy` In addition to the options provided by the standard `report` class, this class provides four supplemental options: `hardcopy`, `expanded`, `chapterleaders`, and `copyright`.
`expanded`
`chapterleaders`
`copyright`

The `hardcopy` option will increase the size of the margin along the binding-edge. If the standard option `twoside` is also given, then the binding-edge will be shifted for even and odd pages, and the standard option `openright` will be forced.

The `expanded` option increases the spacing of baselines. This requires many subtle tweaks in standard `report` definitions, as vertical spacing at chapter headings and other places becomes irregular and must be accounted for.

The `chapterleaders` option causes the display of leader dots in the *Table of Contents* for chapter headings, which would otherwise be suppressed. This could be nice for people who request that section/sub-section headings in the ToC be suppressed.

The `copyright` option includes a copyright notice on the title page of the document, using the author's name and defense year to generate the line.

```
\if@hardcopy  Declaring the document options merely sets appropriate flags, which we define
\if@expanded here. We deal with the options later.
\ifch@pleaders 1 \newif\if@hardcopy
\ifc@pyright   2 \newif\if@expanded
               3 \newif\ifch@pleaders
               4 \newif\ifc@pyright
```

The rest of this section is boiler-plate for handling the options and passing standard options on to the `report` class for handling. The final step is to load the `report` class, so that we may continue to override its features here. Then we load the `ifpdf` package since we will need it down the road.

```
5 \DeclareOption{hardcopy}{\@hardcopytrue}
6 \DeclareOption{expanded}{\@expandedtrue}
7 \DeclareOption{chapterleaders}{\ch@pleaderstrue}
8 \DeclareOption{copyright}{\c@pyrighttrue}
9 \DeclareOption*{\PassOptionsToClass{CurrentOption}{report}}
10 \ProcessOptions \relax
11 \LoadClass{report}
12 \RequirePackage{ifpdf}
```

4 Establishing Page Margins

Now we'll set up page margins that FSU expects. In general, the *Guidelines & Requirements for Electronic Theses, Treatises and Dissertations* requires that text margins be 1 inch on all sides, with the page number being 3/4 inch from the bottom.

`\headheight` We do not use running headers, but should someone turn them on, we set them to appear (illegally) in the area above the page body. The `\topmargin` is calculated relative to the default 1-inch page origin, assuming `\voffset=0pt`.

```
13 \setlength{\headheight}{\topskip}
14 \setlength{\headsep}{1.5\baselineskip}
15 \setlength{\topmargin}{-\headheight}
16 \addtolength{\topmargin}{-\headsep}
```

`\textheight` We set the `\textheight` to accommodate a fixed number of lines whose heights are defined by `\baselineskip`. (This parameter is established by the document font size selection.) We want the page body to occupy the entire vertical space, less the top and bottom margins. The *Guidelines* specify that the page number should be 3/4-inch from the bottom. Once we've established the actual text height established by some integral number of lines, we'll set `\footskip` to absorb any additional space.

```
17 \setlength{\@tempdima}{\paperheight}
18 \addtolength{\@tempdima}{-2.075in} % 2in plus a little fudge
19 \divide\@tempdima\baselineskip
20 \@tempcnta=\@tempdima
21 \setlength\textheight{\@tempcnta\baselineskip}
```

Now that the text height has been calculated, we fix the `\footskip` setting to take up the slack, setting it 3/4 inch from the page bottom.

```
22 \setlength{\footskip}{\paperheight}
23 \addtolength{\footskip}{-1.8in} % 0.75in with a little fudge
24 \addtolength{\footskip}{-\textheight}
```

`\textwidth` Accounting for the required margins, standard 8.5x11" paper allows a maximum \LaTeX `\textwidth` of 6.5 inches. The horizontal margins are derived from this column width, so with the following code, if a narrower papersize is selected (e.g., A4), the margins will be narrower.

`\oddsidemargin`

`\evensidemargin`

```
25 \setlength{\textwidth}{6.5in}
26 \setlength{\@tempdima}{\paperwidth}
27 \addtolength{\@tempdima}{-2in}
28 \addtolength{\@tempdima}{-\textwidth}
29 \divide\@tempdima by2
30 \setlength{\oddsidemargin}{\@tempdima}
31 \setlength{\evensidemargin}{\@tempdima}
```

5 Processing the Document Options

5.1 Handling the hardcopy Option

`\evenoddoffset` For printing hard copies of a thesis or dissertation, we allow a little extra margin space along the binding edge. The size of this extra space is defined by `\evenoddoffset`. For two-sided hard copies, we force chapters (and everything using that level heading) to begin on right-hand (recto, odd-numbered) pages. The

margin adjustments are added to the `\begin{document}` hooks, so that the user may redefine `\evenoddoffset` in the document preamble. The `hardcopy` option will produce a non-compliant document, but it may be nice for a personal hard copy.

```

32 \newlength{\evenoddoffset}
33 \setlength{\evenoddoffset}{0.25in}
34 \if@hardcopy%
35   \AtBeginDocument{\addtolength{\textwidth}{-\evenoddoffset}%
36     \addtolength{\oddsidemargin}{\evenoddoffset}}
37 \if@twoside\@openrighttrue%
38   \AtBeginDocument{\addtolength{\evensidemargin}{-\evenoddoffset}}
39 \else
40   \AtBeginDocument{\addtolength{\evensidemargin}{\evenoddoffset}}\fi
41 \fi

```

5.2 Handling the `chapterleaders` Option

This option makes a minor change to the *Table of Contents* by adding leader dots from the chapter title to the page number. The default L^AT_EX report class does not provide leaders on chapter headings, just `section` and lower heading levels. If the user is writing a paper without subheadings, then the appearance of the *Table of Contents* might be improved by including such leader dots.

`\l@chapter` If the user has requested the `chapterleaders` document option, `\l@chapter` is re-defined to provide the leaders as requested.

```

42 \ifch@pleaders
43   \renewcommand*\l@chapter[2]{%
44     \ifnum \c@tocdepth > \m@ne
45       \addpenalty{-\@highpenalty}%
46       \vskip 1.0em \@plus\p@
47       {\@dottedtocline{0}{0pt}{1.5em}{\bfseries#1}{\bfseries#2}}
48     \fi}
49 \fi

```

5.3 Handling the `expanded` Option

Expanded spacing requires a lot of tweaking. The standard report-class mechanisms allow a user to redefine `\baselinestretch`, and then all baseline leading is increased by this factor. Instead, the expanded spacing environment stretches the `\baselineskip` by half again as much, but only for the normal font size in the main body of the text. Other environments revert to single-spacing (e.g., the various *Tables of Contents* in the front matter, table and figure captions, footnotes), and vertical spacing in list environments is also scaled back.

The definitions which follow are only defined if the `expanded` option has been selected.

```

50 \if@expanded

```

5.3.1 Baseline Parameters

`\adjbaselineskip` `\blstretchiness` `\smbstretchiness` To start, we define the adjustment to `\baselineskip` to be some fraction of the original `\baselineskip`. This adjustment is not defined to be a rubber length, since we generally want fixed, predictable baselines while we are in single-space mode. In expanded spacing mode, however, we can allow a little stretchiness since we've already got some whitespace between lines. We define some baseline stretchiness with `\blstretchiness`, and a smaller amount of stretchiness with `\smbstretchiness`.

```
51 \newlength{\adjbaselineskip}%
52 \setlength{\adjbaselineskip}{0.5\baselineskip}%
53 \def\blstretchiness{0pt plus.4pt minus.3pt}
54 \def\smbstretchiness{0pt plus.3pt minus.2pt}
```

Note: If tweaking `\adjbaselineskip` here, be sure to evaluate the `\listbaselineskip` parameter below as well. It may need to be adjusted if the `baselineskip` strays too far from 150%.

`\listbaselineskip` We use the `\listbaselineskip` to reset to narrower spacing for list environments (see below). In the ballpark of the 150% expanded `baselineskip`, a `baselineskip` reduced to 80% of expanded looks OK.

```
55 \newlength{\listbaselineskip}%
56 \@tempdima=\baselineskip\advance\@tempdima by\adjbaselineskip
57 \setlength{\listbaselineskip}{0.8\@tempdima}
```

5.3.2 Redefining `\normalsize`

`\FSU@onormalsize` `\normalsize` `\expandspacing` We preserve the original definition of `\normalsize` in `\FSU@onormalsize`, and then we redefine `\normalsize` to call `\expandspacing` instead. `\expandspacing` first calls the old definition of `\normalsize` to establish the original baselines. (Otherwise, multiple calls to `\expandspacing` will generate wider and wider baseline spacings.)

```
58 \let\FSU@onormalsize=\normalsize%
59 \newcommand{\expandspacing}{\FSU@onormalsize%
60   \addtolength{\baselineskip}{\adjbaselineskip}%
61   \addtolength{\baselineskip}{\blstretchiness}}%
62 \let\normalsize=\expandspacing%
```

5.3.3 Chapter Heading Adjustment

`\afterheadadj` While in expanded-spacing mode, the first line of text after chapter headings will be set a little lower than if we were in single-space mode. (We will be in single-space mode for the automatically-generated lists in the front-matter, for example, while most of the other chapter-level sections will be in expanded-spacing mode.) To compensate, we should call the macro `\afterheadadj` to remove extra vertical space when we go into expanded-spacing mode after chapter headings.

```
63 \newcommand{\afterheadadj}{\advvspace{-\adjbaselineskip}}%
```

5.3.4 Adjustments to the `\list` Environments

In expanded-spacing mode, most of the `\list` environments look pretty bad if left with the standard expanded baselines. We attempt to compensate by reducing the amount of baseline skip while in list mode. We accomplish this by first calling the standard list startup machinery, and then reducing the baseline skip and baseline stretchiness.

`\f@olist` We preserve the regular function of the `\list` command in the macro `\f@olist`,
`\list` and then we redefine `\list` to scale back the standard expanded spacing in the list environments. The `\baselineskip` adjustment occurs only in the outer-most `\list` environment. (All inner `\lists` will share the same reduced `\baselineskip`.)

```
64 \let\f@olist=\list
65 \def\list#1#2{%
66   \f@olist{#1}{#2}
67   \ifnum\@listdepth=1
68     \setlength{\baselineskip}{\listbaselineskip}
69     \addtolength{\baselineskip}{\smbliststretchiness}
70   \fi
71 }
```

`\f@endlist` After our mutation of `\list`, we undo our damage here by re-defining `\endlist`
`\endlist` to restore expanded spacing at the close of the outer-most `\list` environment.

```
72 \let\f@endlist=\endlist
73 \def\endlist{%
74   \f@endlist
75   \ifnum\@listdepth=0 \normalsize \fi
76 }
```

`verbatim` A `verbatim` environment looks awkward with expanded spacing, so we re-define
`verbatim*` the environment to revert to standard spacing here. We handle both the standard and starred versions. (These definitions are borrowed from the L^AT_EX code and modified.)

```
77 \let\f@overbat=\verbatim
78 \expandafter\let\expandafter\f@overbats
79   \expandafter=\csname endverbatim*\endcsname
80 \let\f@endverb=\endverbatim
81 \def\verbatim{\par\FSU@onormalsize\f@overbat}
82 \def\endverbatim{\f@endverb\afterheadadj}
83 \namedef{verbatim*}{\par\FSU@onormalsize\@verbatim\@sxverbatim}
84 \expandafter\let\csname endverbatim*\endcsname =\endverbatim
```

5.3.5 Fallback Definitions

We allow our redefinitions to be NO-OPs if the `expanded` document option has not been selected. (Some of our later macro definitions attempt to call a few of the macros above without testing `\if@expanded`.)

```

85 \else
86 \let\expandspacing=\relax
87 \let\FSU@onormalsize=\relax
88 \let\afterheadadj=\relax
89 \let\f@olist=\list
90 \let\f@oendlist=\endlist
91 \fi
92 \FSU@onormalsize

```

`singlespaced` There may be times when it is necessary to provide single-spacing while in expanded mode. This environment provides that. If not in expanded mode, it becomes a normal paragraph.

```

93 \newenvironment{singlespaced}
94 {\par\if@expanded\FSU@onormalsize\advspace{\adjbaselineskip}\fi}{\par}

```

6 Testing the Presence of hyperref

`\if@hyperloaded` We may want to enhance the behavior of a few of our macros if the `hyperref` package has been loaded. We cannot test for package loading after `\begin{document}`, and the user's `\usepackage{hyperref}` will have occurred after this file has been loaded. So what we can do is create a new test here and have it initialized in the `\begin{document}` hooks. This test is used to add PDF bookmarks to the title page and to the table of contents page (if `hyperref` has been loaded).

```

95 \newif\if@hyperloaded
96 \AtBeginDocument{\@ifpackageloaded{hyperref}
97 {\@hyperloadedtrue}{\@hyperloadedfalse}}

```

7 Definition of Title Page Macros

7.1 Token Storage

`\@degree` These definitions should be redefined within the document's preamble, set to sane values using the corresponding macros in the next section.

`\@department`

`\@college` 98 \gdef\@degree{\ClassError{fsuthesis}%

`\@degreeyear` 99 {No \protect\degree\space given}%

`\@defensedate` 100 {You must provide a \protect\degree{Degree Name}%

`\@manuscripttype` 101 \space command}}

102 \gdef\@department{\ClassError{fsuthesis}%

103 {No \protect\department\space given}%

104 {You must provide a \protect\department{Name of Department}%

105 \space command}}

106 \gdef\@college{\ClassError{fsuthesis}%

107 {No \protect\college\space given}%

108 {You must provide a \protect\college{My College or School}%

109 \space command}}

110 \gdef\@degreeyear{\ClassError{fsuthesis}%

111 {No \protect\degreeyear\space given}%

```

112 {You must provide a \protect\degreeyear{20NN}\space command}}
113 \gdef\@defensedate{\ClassError{fsuthesis}%
114 {No \protect\defensedate\space given}%
115 {You must provide a \protect\defensedate{Month dd, 20NN}%
116 \space command}}
117 \gdef\@manuscripttype{\ClassError{fsuthesis}%
118 {No \protect\manuscripttype\space given}%
119 {You must provide a \protect\manuscripttype{Dissertation}%
120 \space command}}

```

7.2 Title Page Token-Setting Macros

`\degree` These macros redefine the corresponding tokens described above. These should
`\department` all be redefined within the preamble section of the thesis or dissertation, with
`\college` the exception of `\department`, which may not be appropriate in some Schools or
`\degreeyear` Colleges.
`\defensedate` 121 \newif\if@department
`\manuscripttype` 122 \newcommand*{\degree}[1]{\gdef\@degree{#1}}
`\semester` 123 \newcommand*{\department}[1]{\gdef\@department{#1}\@departmenttrue}
`\if@department` 124 \newcommand*{\college}[1]{\gdef\@college{#1}}
125 \newcommand*{\degreeyear}[1]{\gdef\@degreeyear{#1}}
126 \newcommand*{\defensedate}[1]{\gdef\@defensedate{#1}}
127 \newcommand*{\manuscripttype}[1]{\gdef\@manuscripttype{#1}}
128 \newcommand*{\semester}[1]{}

7.3 Title Page Generation

`\maketitle` This macro generates the title page by expanding a few of the macros that should
have been specified in the thesis document's preamble. No page number is writ-
ten on the title page, but the page should occupy all the vertical space (within
the margins), including the space normally occupied by the page number. The
whole page is enclosed in a centering environment, within the L^AT_EX report class's
`titlepage` environment.

If the `hyperref` package has been loaded, we first add a PDF bookmark to
the title page for convenience. Then the `pagebody` is expanded vertically by
the amount `\footskip`. Next we restore single-spacing with `\FSU@onormalsize`.
(We'll double-space manually by inserting `\baselineskip` where necessary.) We
use `\vfills` to distribute vertical white space evenly across the page. We don't
know how long the user's title is, and we'll let L^AT_EX decide how best to break the
title into multiple lines. However, the title should be double-spaced, so we double
`\baselineskip` before processing the title. This adds one extra blank line before
the title, so we compensate by `\vskiping` a negative `\baselineskip` first.

```

129 \renewcommand{\maketitle}{\begin{titlepage}%
130 \ifpdf\if@hyperloaded\pdfbookmark[0]{Title Page}{MainTitlePage}\fi\fi%
131 \setlength{\@tempdima}{\paperheight}%
132 \addtolength{\@tempdima}{-2.075in}% 2in plus a little fudge
133 \addtolength{\@tempdima}{-\textheight}%

```



```

134 \enlargethispage{\@tempdima}%
135 \begin{center}%
136 \FSU@onormalsize FLORIDA STATE UNIVERSITY
137 \vskip\baselineskip
138 \MakeUppercase{\@college}%
139 \vfill
140 \vskip-\baselineskip
141 {\addtolength{\baselineskip}{\baselineskip}}%
142 \MakeUppercase{\@title}\vfill}
143 By
144 \vskip\baselineskip
145 \MakeUppercase{\@author}
146 \vfill
147 A \@manuscripttype{} submitted to the\
148 \if@department\@department\else\@college\fi\
149 in partial fulfillment of the\
150 requirements for the degree of\
151 \@degree
152 \vfill
153 \@degreeyear%
154 \vfill
155 \ifc@pyright%
156 Copyright \copyright\ \@degreeyear\ \@author. All Rights Reserved.\fi%
157 \pagebreak[4]
158 \end{center}
159 \end{titlepage}
160 }

```

8 Definition of Committee Membership Page Macros

8.1 Committee Membership Page Definitions

`\commwidth` These macros control the width of the committee member column and the vertical space between members. The `\commwidth` length determines the width of the name column. Names and titles are set flush-left within this column, but the column itself is set flush-right on the page. Therefore, increasing the width here will move the start of the column to the left.

We allow plenty of vertical stretchiness between entries as defined here in the `\commskip` parameter, and significant shrink capacity as well. With this arrangement we can accommodate three to ten committee members without stressing the page design significantly.

```

161 \newlength{\commwidth}
162 \setlength{\commwidth}{4in}
163 \newlength{\commskip}
164 \setlength{\commskip}{0.5in plus0.25fil minus.3in}

```

`\committeeperson` Theses/Dissertations require listing the student's graduate committee. Committee members are added to the page by means of the `\committeeperson` macro. It

works by expanding and re-defining the `\@thecmems` macro with additional arguments each time it is called. The committee page then inserts the macro's text as is. I use `\expandafter` here since I just want one level of expansion rather than the complete-to-the-core expansion of `\xdef`. We account for the extra `\vskip` at the top of the column later.

```
165 \gdef\@thecmems{}
166 \newcommand{\committeeperson}[2]{%
167   \expandafter\gdef\expandafter\@thecmems\expandafter{%
168     \@thecmems\vskip\commsskip\makebox[\commwidth][l]{#1}\
169     \makebox[\commwidth][l]{#2}}
```

8.2 Committee Page Generation

`\makecommitteepage` This macro inserts the boiler-plate text into a committee page. For the text at the top of the page, we first test whether the author and defense date information can fit on one line. If it can, we eject the line as is and start a new paragraph for the supervisory committee line. If it won't fit (because the author's name is exceedingly long), then allow the supervisory committee line to join with the previous line in a single paragraph.

When the `\@thecmems` macro was created, it included a `\vskip` before the the first committee member. Before we expand the `\@thecmems` macro, we `\vskip` backwards so that we have tighter control over the spacing balance here. (It's easier than inserting extra logic in the `\expandafter` series in the `\committeeperson` macro.)

```
170 \newcommand{\makecommitteepage}{\FSU@onormalsize\setcounter{page}{2}%
171 \if@openright\cleardoublepage\else\clearpage\fi%
172 \addtolength{\baselineskip}{0.4\baselineskip}
173 \setbox\@tempboxa=\hbox{\@author{} defended this
174   \MakeLowercase{\@manuscripttype} on \mbox{\@defensedate}.}
175 \ifdim\wd\@tempboxa>\textwidth\raggedright\noindent\unhbox\@tempboxa{}
176   \else\noindent\unhbox\@tempboxa\par\noindent\fi
177 The members of the supervisory committee were:\par
178 \vfil\begin{flushright}\vskip-\commsskip%
179   %\addtolength{\baselineskip}{0.4\baselineskip}
180   \@thecmems\end{flushright}\vfil
181 \vskip\baselineskip
182 {\% \addtolength{\baselineskip}{0.5\baselineskip}
183 \noindent
184 The Graduate School has verified and approved the
185 above-named committee members, and certifies that the
186 \MakeLowercase{\@manuscripttype} has been approved in accordance
187 with university requirements.\par}\vfil\pagebreak[4]}
```

9 Setting PDF Metadata

```
\@subject Whether or not the user is aware of it, the PDF programs, drivers, and converters
\@keywords will set some document metadata in the output, such as document title, author,
  \subject
  \keywords
\if@subject
\if@keywords
```

etc. If these are not set explicitly, then they could be set to some unknown values. Here we attempt to provide some adequate defaults. To start, we define a few extra macros which the user can use to enhance the metadata inserted into the document.

```
188 \gdef\@subject{}
189 \gdef\@keywords{}
190 \newif\if@subject
191 \newif\if@keywords
192 \newcommand*\@subject}[1]{\gdef\@subject{#1}\@subjecttrue}
193 \newcommand*\@keywords}[1]{\gdef\@keywords{#1}\@keywordstrue}
```

`\@pdfmetadata` `\@hypermetadata` We must provide two different methods for setting metadata, since the `hyperref` package will ignore the PDF information keywords. Execution is deferred until the `\begin{document}`, so all the required information should be available. Note that the `hyperref` package will convert many accented or special characters in the `\@title` and `\@author` strings (but not all) so that they may be properly included as PDF metadata. Without `hyperref`, the `\@author` and `\@title` will probably not produce reliable results if they contain non-ASCII characters. (The same caveats apply to the `\@subject` and `\@keywords` strings.)

```
194 \def\@pdfmetadata{\def\protect{\def\{ }%
195 \edef\@litstr{/Title (\@title) /Author (\@author)}%
196 \if@subject\edef\@litstr{\@litstr /Subject (\@subject)}\fi%
197 \if@keywords\edef\@litstr{\@litstr /Keywords (\@keywords)}\fi%
198 \expandafter\pdfinfo\expandafter{\@litstr}}
199 \def\@hypermetadata{\def\{ } \edef\@nt{\@title}%
200 \hypersetup{pdftitle={\@nt},pdfauthor={\@author}}%
201 \if@subject\hypersetup{pdfsubject={\@subject}}\fi%
202 \if@keywords\hypersetup{pdfkeywords={\@keywords}}\fi}}
203 \AtBeginDocument{\ifpdf\if@hyperloaded\@hypermetadata\else\@pdfmetadata\fi\fi}
```

10 Document Sections

`\frontmatter` `\mainmatter` Borrowing from the `book` class, we add these two macros for helping to distinguish between front matter material and the body of the document. All page numbers are in small roman numerals for the front matter text; starting with the opening of the first chapter, pages are numbered starting with the arabic numeral “1”.

```
204 \newcommand{\frontmatter}{\pagenumbering{roman}}
205 \newcommand{\mainmatter}{%
206 \if@openright\cleardoublepage\else\clearpage\fi%
207 \expandspace\pagenumbering{arabic}}
```

11 Special Names

`\acknowledgename` `\biosketchname` `\contentsname` `\listabbrevname` `\listmusexname` `\listsymname` `\musexname` `\appendixtocname` Here we (re)define heading names for special pages. In addition, a new `\musexname` macro is created for labeling the captions of musical examples. Other standard report macros defining heading names are listed here in commented-out form for

reference. (Their default settings will be used unless overridden here or in the user's document preamble.)

```

208 %\renewcommand*{\abstractname}{}
209 \newcommand*{\acknowledgename}{Acknowledgments}
210 %\renewcommand*{\bibname}{}
211 \newcommand*{\biosketchname}{Biographical Sketch}
212 \renewcommand*{\contentsname}{Table of Contents}
213 \newcommand*{\listabbrevname}{List of Abbreviations}
214 %\renewcommand*{\listfigurename}{}
215 %\renewcommand*{\listtablename}{}
216 \newcommand*{\listmusexname}{List of Musical Examples}
217 \newcommand*{\listsymname}{List of Symbols}
218 \newcommand*{\musexname}{Example}
219 \newcommand*{\appendixtocname}{Appendix}

```

12 Front Matter Environments

dedication The dedication page has no heading. Whatever text the user may provide will be placed about half way down the page. **acknowledgments** The acknowledgments page is formatted as a chapter heading page (without a chapter number). These pages are not listed in the table of contents.

```

220 \newenvironment{dedication}%
221   {\if@openright\cleardoublepage\else\clearpage\fi\mbox{} \vfill}
222   {\vfill\mbox{} \pagebreak[4]}
223 \newenvironment{acknowledgments}%
224   {\chapter*{\acknowledgename}\normalsize\afterheadadj}
225   {\clearpage\FSU@onormalsize}

```

listofsymbols Lists of Symbols or Abbreviations are not required, but if a user does include them, **listofabbrevs** they have chapter-style headings, and they are included in the table of contents using the `frontmatter` classification. These pages are set to be single-spaced, as they are likely to contain tabular material.

```

226 \newenvironment{listofsymbols}
227   {\chapter*{\listsymname}\FSU@onormalsize%
228    \addcontentsline{toc}{frontmatter}{\listsymname}}
229   {\clearpage}
230 \newenvironment{listofabbrevs}
231   {\chapter*{\listabbrevname}\FSU@onormalsize%
232    \addcontentsline{toc}{frontmatter}{\listabbrevname}}
233   {\clearpage}

```

abstract The abstract environment is set to be in expanded spacing (if requested by document option), and an entry is added to the *ToC* using the `frontmatter` style.

```

234 \renewenvironment{abstract}%
235   {\chapter*{\abstractname}\normalsize\afterheadadj%
236    \addcontentsline{toc}{frontmatter}{\abstractname}}
237   {\clearpage\FSU@onormalsize}

```

13 Additional Front Matter Formatting

`\@dottedtocline` `\listspenalty` The FSU *Guidelines* require that table, figure, and musical example captions be listed in their entirety in the front matter of the document. Some of the captions can be quite lengthy. By default, L^AT_EX wants to keep an entire caption on one page, rather than letting it be split between pages if necessary. This can lead to very bad spacing on the *List of...* pages. This behavior is contained within L^AT_EX's `\@dottedtocline` macro by setting `\interlinepenalty=10000`. We redefine this macro here so that we can set `\interlinepenalty` to a value of our own choosing. In addition, the original `\@dottedtocline` macro created an overfull hbox if the page number exceeded the default `\@pnumwidth` value. For those rare occasions when the page number width might exceed this value, we allow the page numbers to consume an extra dot if necessary.

```

238 \newcount\listspenalty
239 \listspenalty=200
240 \def\@dottedtocline#1#2#3#4#5{%
241   \ifnum #1>\c@tocdepth \else
242     \vskip \z@ \@plus.2\p@
243     {\leftskip #2\relax \rightskip \@tocrmarg \parfillskip -\rightskip
244     \parindent #2\relax\@afterindenttrue
245     \interlinepenalty=\listspenalty
246     \leavevmode \@tempdima #3\relax
247     \advance\leftskip \@tempdima \null\nobreak\hskip -\leftskip
248     {#4}\nobreak \leaders\hbox{${\m@th
249       \mkern \@dotsep mu\hbox{.}\mkern \@dotsep
250       mu$}\hfill \nobreak%
251     \setbox\@tempboxa=\hbox{\normalfont\beginingroup\normalcolor #5\endgroup}%
252     \ifdim\@pnumwidth<\wd\@tempboxa \hbox{\normalfont\beginingroup\normalcolor #5\endgroup}%
253     \else \hb@xt@\@pnumwidth{\hfil\normalfont\beginingroup\normalcolor #5\endgroup}\fi%
254     \setbox\@tempboxa\null
255     \par}%
256   \fi}

```

`\tableofcontents` If the `hyperref` package has been loaded, it would be nice to have a PDF bookmark to the table of contents page. We need to redefine the original `\tableofcontents` in order to add that functionality. We also set the `\listspenalty` to retain the default L^AT_EX behavior of preventing entries from being split between pages.

```

257 \renewcommand{\tableofcontents}{
258   \if@twocolumn\@restonecoltrue\onecolumn\else\@restonecolfalse\fi
259   \chapter*{\contentsname
260     \mkboth{\MakeUppercase\contentsname}{\MakeUppercase\contentsname}}%
261   \ifpdf\if@hyperloaded\pdfbookmark[0]{Table of Contents}{contents}\fi\fi
262   {\listspenalty=10000\@starttoc{toc}\if@restonecol\twocolumn\fi}%
263 }

```

`\iffront@dded` `\l@frontmatter` This macro specifies how frontmatter entries in the *Table of Contents* appear. Each entry is separated by a little vertical space, with leader dots to the page number.

```

264 \newif\iffront@dded
265 \newcommand*\l@frontmatter{%
266   \iffront@dded\addvspace{1ex \@plus\p@}\else\front@ddedtrue\fi
267   \@dottedtocline{0}{0pt}{0pt}}

```

`\toclevel@frontmatter` For setting up bookmarks, the `hyperref` package wants to know what level of the hierarchy various sections of the *Table of Contents* are. We can hide the front matter entries behind the *Table of Contents* entry by setting the frontmatter ToC level to 1 here.

```
268 \def\toclevel@frontmatter{1}
```

`\ifb@ckadded` The “back matter” of the document consists of the References/Bibliography section and the Biographical Sketch. Since we’re approaching the end of the table of contents, there is a potential to have a single entry at the top of one page. We try to discourage this by increasing the penalty between the leading and trailing backmatter items.

`\l@backmatter`

```

269 \newif\ifb@ckadded
270 \newcommand*\l@backmatter{%
271   \ifb@ckadded\addpenalty{\@highpenalty}\addvspace{1ex \@plus\p@}%
272   \addpenalty{\@highpenalty}%
273   \else\b@ckaddedtrue\addpenalty{0}\addvspace{1em \@plus\p@}\fi%
274   \@dottedtocline{0}{0pt}{0pt}}

```

`\toclevel@backmatter` As for the frontmatter handling for the `hyperref` package, we need to define the heading level of the backmatter items for bookmarks.

```
275 \def\toclevel@backmatter{0}
```

`\l@figure` Figure and table captions are listed with a single space between each of them.

`\l@table` Since table and figure captions have the same format, the `\l@table` macro is `\let` from the `\l@figure` macro.

```

276 \renewcommand*\l@figure{%
277   \addvspace{10pt}%
278   \@dottedtocline{0}{0pt}{3.2em}}
279 \let\l@table\l@figure

```

`\FSU@lofsomething` Since the *List of Figures*, *List of Tables*, and *List of Musical Examples* all have similar function, the common elements are gathered in this one definition. (This code is borrowed and modified from the `report` class.)

```

280 \newcommand{\FSU@lofsomething}[2]{\FSU@onormalsize%
281   \if@twocolumn\@restonecoltrue\onecolumn\else\@restonecolfalse\fi
282   \chapter*{#1}%
283   \addvspace{-10pt}
284   \addcontentsline{toc}{frontmatter}{#1}%
285   \@mkboth{\MakeUppercase{#1}}{\MakeUppercase{#1}}
286   \@starttoc{#2}%
287   \if@restonecol\twocolumn\fi
288 }

```

```

\listoftables All the hard stuff is done. Now we just define these macros in terms of
\listoffigures \FSU@lofsomething.
\listofmusex 289 \renewcommand{\listoftables}{%
290 \FSU@lofsomething{\listtablename}{lot}}
291 \renewcommand{\listoffigures}{%
292 \FSU@lofsomething{\listfigurename}{lof}}
293 \newcommand{\listofmusex}{%
294 \FSU@lofsomething{\listmusexname}{lom}}

```

14 Musical Example Indexing

Here we establish some boiler-plate stuff to hook into the standard L^AT_EX mechanisms for table and figure captions, adding a *List of Musical Examples* capability and new environments for their captioning. Musical example captions will be written to a .lom file. The hyperref package, should it be loaded later by the user, expects an additional labeling macro called `\theHmusex` to be defined.

```

295 \let\l@musex\l@figure
296 \newcounter{musex}[chapter]
297 \renewcommand{\themusex}{%
298 {\ifnum\c@chapter>z@\thechapter.\fi\@arabic\c@musex}
299 \newcommand{\theHmusex}{%
300 {\ifnum\c@chapter>z@\thechapter.\fi\@arabic\c@musex}
301 \def\fps@musex{tbp}
302 \def\ftype@musex{1}
303 \def\ext@musex{lom}
304 \def\fnm@musex{\musexname\nobreakspace\themusex}

```

```

musex These work just like the figure environments.
musex* 305 \newenvironment{musex}{%
306 {\@float{musex}}
307 {\end@float}
308 \newenvironment{musex*}{%
309 {\@dblfloat{musex}}
310 {\end@dblfloat}

```

15 End Matter Formatting

```

\refitemsep A new length parameter \refitemsep is created to define the vertical space that
\refindent separates individual bibliographic entries. This is calculated from the default
\baselineskip for the selected point size, with a little bit of stretchiness added.
\refindent adjusts the hanging indentation.
311 \newskip{\refitemsep}
312 \newskip{\refindent}
313 {\FSU@onormalsize%
314 \global\setlength{\refitemsep}{\baselineskip}
315 \global\addtolength{\refitemsep}{0pt plus3pt minus0.2pt}}
316 \setlength{\refindent}{2.5em}

```

references This environment is intended for user-generated formatting of a reference list or bibliography, i.e., non-BIB_TE_X. It establishes single-spaced lines with a blank line between entries, and the first line of each entry is exdented. The page heading is determined by the current definition of `\bibname`, not the environment, so the user must invoke `\renewcommand*{\bibname}{References}` in order to change the name of this section.

```

317 \newenvironment{references}
318   {\chapter*{\bibname}\FSU@onormalsize%
319    \interlinepenalty=10000\sloppy
320    \addvspace{-\baselineskip} \@afterindenttrue%
321    \addcontentsline{toc}{backmatter}{\bibname}%
322    \setlength{\leftskip}{\refindent}%
323    \setlength{\parindent}{-\refindent}%
324    \setlength{\parskip}{\refitemsep}}
325   {\clearpage}

```

thebibliography This is a re-definition of a BIB_TE_X-generated bibliography. We have to be be sure to turn off expanded spacing (if it had been requested), and add an entry to the *ToC*.

```

326 \renewenvironment{thebibliography}[1]
327   {\chapter*{\bibname}\FSU@onormalsize%
328    \addcontentsline{toc}{backmatter}{\bibname}%
329    \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
330    \f@olist{\@biblabel{\@arabic\c@enumiv}}%
331     {\settowidth\labelwidth{\@biblabel{#1}}%
332     \leftmargin\labelwidth
333     \advance\leftmargin\labelsep
334     \@openbib@code
335     \usecounter{enumiv}%
336     \let\p@enumiv\@empty
337     \setlength{\itemsep}{\refitemsep}
338     \setlength{\parsep}{0pt}
339     \renewcommand\theenumiv{\@arabic\c@enumiv}}%
340    \interlinepenalty=10000
341    \sloppy
342    \clubpenalty4000
343    \@clubpenalty \clubpenalty
344    \widowpenalty4000%
345    \sfcode'\.\@m}
346   {\def\@noitemerr
347    {\@latex@warning{Empty 'thebibliography' environment}}%
348    \f@oendlist}

```

15.1 Accommodating natbib, apacite, and biblatex

Packages `natbib` and `apacite` overwrite our redifinition of the standard L^AT_EX `thebibliography` environment, so we must accommodate them specially. Further, the `apacite` package may optionally import the `natbib` package, so we have

to be careful about what we “fix” and under which conditions here. Because these packages will be loaded after this class has been loaded, we must defer our corrections until the preamble has been processed, so once again, we rely on the `\AtBeginDocument` hook.

`\f@plainnat` We’ll start with the plain `natbib` corrections. We can accommodate this package by
`\bibsection` adding definitions to `natbib`’s `\bibsection`. There, we’ll set the proper chapter
`\bibpreamble` heading, make an addition to the *Table of Contents*, and reset to single line-
`\bibpostamble` spacing. We’ll also add definitions to `natbib`’s `\bibpreamble` macro so that we
can re-instate the standard L^AT_EX `list` environment, and then restore our own
version again by supplementing the definition of `\bibpostamble`.

```
349 \def\f@plainnat{%
350   \setlength{\bibsep}{\refitemsep}
351   \setlength{\bibhang}{\refindent}
352   \renewcommand\bibsection{\chapter*{\bibname}\FSU@onormalsize%
353     \addcontentsline{toc}{backmatter}{\bibname}%
354     \let\f@oldpre=\bibpreamble\let\f@oldpost=\bibpostamble%
355     \renewcommand\bibpreamble{\f@oldpre\interlinepenalty=10000
356       \if@expanded\let\f@savenlist=\list\let\list=\f@olist\fi}%
357     \renewcommand\bibpostamble{%
358       \if@expanded\let\list=\f@savenlist\fi\f@oldpost}}}
```

`\f@apacite` Package `apacite` has more machinery to adjust, but again, we need to re-instate the
`\bibliographypsize` L^AT_EX default behavior for line spacing and lists for when we may be in `expanded`
`\bibsection` mode. We have to make different adjustments if the `natbibapa` package option
has been specified.

```
359 \def\f@apacite{%
360   \renewcommand{\bibliographypsize}{\FSU@onormalsize%
361     \interlinepenalty=10000
362     \if@expanded\let\f@savenlist=\list\let\list=\f@olist\fi}%
363   \ifpackageloaded{natbib}%
364     {\renewcommand\bibsection{\chapter*{\bibname}
365       \addcontentsline{toc}{backmatter}{\bibname}}
366     \setlength{\bibsep}{\refitemsep}%
367     \setlength{\bibhang}{\refindent}}%
368   {\setlength{\bibitemsep}{\refitemsep}%
369     \setlength{\bibleftmargin}{\refindent}%
370     \setlength{\bibindent}{-\refindent}%
371     \renewcommand{\st@rtbibchapter}{\chapter*{\bibname}%
372       \addcontentsline{toc}{backmatter}{\bibname}}}}
```

`\f@biblatex` We don’t need to do much: the default BibL^AT_EX environment doesn’t add the
bibliography to the ToC, so we add that here. We also encourage entries to remain
on one page. We define hanging indentation and entry separation to be consistent
with our own environment.

```
373 \def\f@biblatex{%
374   \AtBeginBibliography{%
375     \FSU@onormalsize \interlinepenalty=10000%
```

```

376   \addcontentsline{toc}{backmatter}{\bibname}}
377   \setlength{\bibitemsep}{\refitemsep}%
378   \setlength{\bibhang}{\refindent}%
379   }

```

Notes for future consideration: perhaps the changes to the `list` environment should be made a part of the `\FSU@onormalsize` and `\normalsize` definitions, so that these become effective whenever we enter or leave `expanded` mode typesetting. Or perhaps our own `list` environment can just be made sensitive to the current state of `\FSU@onormalsize/\normalsize`.

Now we enfold the corrections into the `\AtBeginDocument` hook.

```

380 \AtBeginDocument{%
381   \@ifpackageloaded{biblatex}{\f@biblatex}%
382   {\@ifpackageloaded{apacite}{\f@apacite}%
383   {\@ifpackageloaded{natbib}{\f@plainnat}{}}}

```

`biosketch` The final page of a thesis or dissertation is the Biographical Sketch. It will be set in expanded spacing (if that document option has been requested).

```

384 \newenvironment{biosketch}
385   {\chapter*{\biosketchname}\normalsize\afterheadadj%
386   \addcontentsline{toc}{backmatter}{\biosketchname}}
387   {\clearpage\FSU@onormalsize}

```

16 Sectioning Command Formatting

`\chapheadskip` The amount of vertical space from the top of the text body area to the top of the chapter heading is defined here by `\chapheadskip`. This value is set here to be 0 inches from the top of the page. If the chapter heading font is changed, this code will need adjustment.

```

388 \newlength{\chapheadskip}
389 \sbox\@tempboxa{\LARGE\bfseries CHAPTER}
390 \setlength{\chapheadskip}{0in}
391 \addtolength{\chapheadskip}{-\ht\@tempboxa}

```

`\@makechapterhead` Chapter headings are upper-case, centered, LARGE, and bold. Starred chapter headings omit the 'Chapter/Appendix' label, and this is used for all the non-chapter page headings in the format.

```

392 \def\@makechapterhead#1{%
393   \hrule height0pt depth0pt width0pt\vskip\chapheadskip%
394   {\centering\parindent=0pt\LARGE\bfseries%
395     \ifnum\c@secnumdepth >\m@ne%
396       \MakeUppercase{\@chapapp}\space\thechapter\par
397       \nobreak\vskip20pt\fi%
398     \interlinepenalty\@M%
399     \MakeUppercase{#1}\par\nobreak\addvspace{40pt}
400   }
401 }

```

```

402 \def\@makeschapterhead#1{%
403   \hrule height0pt depth0pt width0pt\vskip\chapheadskip%
404   {\centering\parindent=0pt\LARGE\bfseries%
405     \interlinepenalty\@M%
406     \MakeUppercase{#1}\par\nobreak\addvspace{40pt}
407   }
408 }

```

`\section` Chapter sections have centered headings. To avoid the hanging indentation added
`\subsection` on subsequent lines, disable the `@hangfrom` definition in the styling for centered
section headings. Subsections are set flush left.

```

409 \renewcommand{\section}{\@startsection{section}{1}{0pt}%
410   {4.0ex plus1ex minus0.3ex}%
411   {2.0ex plus0.3ex minus0.2ex}%
412   {\normalfont\centering\let\@hangfrom=\relax\Large\bfseries}}
413 \renewcommand{\subsection}{\@startsection{subsection}{2}{0pt}%
414   {3ex plus.8ex minus0.1ex}%
415   {1.25ex plus0.1ex minus.1ex}%
416   {\normalfont\raggedright\large\bfseries}}

```

`\subsubsection` These sectioning commands produce in-line headings, and they must end with a
`\paragraph` period. Rather than relying on the user to consistently provide the period and
`\subparagraph` to remain consistent with other sectioning commands, these macros are re-defined
to take an additional argument (i.e., the heading text). This text is normally
absorbed by the `\@startsection` macro, so instead we can tack a period onto the
end of the text when we pass control to `\@startsection`. The downside of the
current implementation is that we lose the ability to apply optional arguments for
these three sectioning commands.

```

417 \renewcommand{\subsubsection}[1]%
418   {\@startsection{subsubsection}{3}{\parindent}%
419     {1ex plus.5ex minus0.1ex}%
420     {-1em}%
421     {\normalfont\bfseries}{#1.}}
422 \renewcommand{\paragraph}[1]%
423   {\@startsection{paragraph}{4}{\parindent}%
424     {1ex plus0.5ex minus0.1ex}%
425     {-0.75em}%
426     {\normalfont\sffamily\slshape}{#1.}}
427 \renewcommand{\subparagraph}[1]%
428   {\@startsection{subparagraph}{5}{\parindent}%
429     {0pt}{-0.5em}{\normalfont\itshape}{#1.}}

```

16.1 Appendix Handling

`\appendix` FSU likes to have the document appendices labeled as such in the ToC. To accom-
modate this, we create the `\appendixtocname` macro (see the “Special Names”
section). We also add extra code to the default `\appendix` macro here to insert
an entry into the table of contents using a new “appendix” class.

For the sake of correct PDF bookmarks, `hyperref` needs a little assistance in this case (because we are creating a bogus heading). We force the current hyperlink to point to what we suppose will be the first appendix page before calling `\addcontentsline`.

```
430 \let\fo@dappendix=\appendix
431 \gdef\appendix{\fo@dappendix
432   \if@hyperloaded\def\@currentHref{appendix.A}\fi
433   \addcontentsline{toc}{appendix}{\appendixtocname}}
```

`\l@appendix` We've just defined a new appendix ToC class, so now we need to provide for its format in the ToC. The format below is modified from the default `report` class `\l@chapter` definition. It would be the same except that we don't need page numbers, and we want to insert a high penalty after the heading and reduce the vertical space so that it will be attached to the next appendix line should the ToC need to be broken over pages. I have inserted a rather large penalty before the heading to encourage a break there, allowing for the appendix heading and any appendices to float to the next page, along with the back matter material.

```
434 \newcommand*\l@appendix[2]{%
435   \ifnum \c@tocdepth > \m@ne
436     \addpenalty{-2000}\vskip 1.0em \@plus\p@%
437     \setlength\@tempdima{1.5em}%
438     \begingroup
439       \parindent \z@ \leavevmode \bfseries
440       \advance\leftskip\@tempdima \hskip -\leftskip
441       #1\nobreak\hfil \par
442       \penalty\@highpenalty\vskip -0.35em\penalty\@highpenalty
443     \endgroup
444   \fi}
```

`\toclevel@appendix` Set the bookmark level for the appendix heading.

```
445 \def\toclevel@appendix{0}
```

17 Tweaking Captions

`\fcapindent` `\belowcaptionskip` The default `report` class sets captions with the same margins as the rest of the page body. Instead, we narrow the caption column by the amount `\fcapindent`. The vertical space below a caption is set by `report` to be 0 points, but since captions above tables need some space, we set the value to 10 points here.

```
446 \newlength{\fcapindent}
447 \setlength{\fcapindent}{2em}
448 \setlength{\belowcaptionskip}{10\p@}
```

`\@makecaption` We narrow the caption column by adjusting `\leftskip` and `\rightskip`. We also set the text in single-space mode if expanded spacing has been requested. (Small, single-line captions remain centered, as in the default `report` class.)

```
449 \long\def\@makecaption#1#2{%
```

```
450 \vskip\abovecaptionskip%
451 \sbox\@tempboxa{#1: #2}%
452 \ifdim \wd\@tempboxa >\hsize
453   {\advance\leftskip\fcapindent \rightskip=\leftskip\relax%
454     \FSU@onormalsize%
455     #1: #2\par}
456 \else
457   \global \@minipagefalse
458   \hb@xt@\hsize{\hfil\box\@tempboxa\hfil}%
459 \fi
460 \vskip\belowcaptionskip}
```

Change History

v2.0.0	General: Initial release of new design.	1	<code>\tableofcontents</code> : Prevent entries from being split between pages, restoring default L ^A T _E X behavior	13	
v2.1.0	<code>\maketitle</code> : Fixed titling with accented/foreign characters.	8	<code>\topmargin</code> : Removed the <code>\flushbottom</code> option from the default configuration.	2	
v2.2.0	<code>\maketitle</code> : Fixed distribution of vertical spacing.	8	General: Improve handling of long table and figure captions.	1	
v2.3.0	<code>\if@hyperloaded</code> : Added test for hyperref	7	v3.2.0	General: Make special accommodations for the optional natbib package.	16
	<code>\makecommitteepage</code> : if openright, force recto	10	v3.3.0	<code>\appendix</code> : Modified standard report macro to insert an extra ToC element	19
	<code>\maketitle</code> : Added <code>pdfbookmark</code> to title page.	8	<code>\appendixtocname</code> : Added a new symbol name to hold the Table of Contents heading for an appendix or appendices.	11	
	<code>\tableofcontents</code> : Redefined from report class to add <code>pdfbookmark</code> for table of contents	13	<code>\l@appendix</code> : New formatting macro for the ToC appendix class	20	
	<code>dedication</code> : if openright, force recto	12	<code>\l@backmatter</code> : Added a backmatter ToC class to handle References and Biographical Sketch separately from frontmatter	14	
v3.0.0	<code>\committeeperson</code> : Removed signature lines for new ETD format.	9	<code>\l@frontmatter</code> : Added test for first frontmatter item to avoid extra vertical space after ToC header	13	
	<code>\commskip</code> : Renamed width and skip, removing reference to signatures.	9	<code>\maketitle</code> : Added layout for <code>copyright</code> option.	8	
	<code>\if@keywords</code> : Explicitly set PDF metadata.	10	General: Make special accommodations for the optional apacite package.	16	
	<code>\makecommitteepage</code> : changed from “Signature Page” to “Committee Page”, removing signature lines and college-level approvals.	10	<code>copyright</code> : Added new document option to add copyright declaration to the title page.	2	
	General: Added ifpdf package	2	<code>references</code> : Changed <code>\parskip</code> to use <code>\refitemsep</code> . Changed indentation to be consistent with <code>apacite</code>	16	
	Added definitions for <code>\@subject</code> and <code>\@keywords</code>	7	<code>verbatim</code> : Set <code>verbatim</code> environment to revert to		
	Change to FSU Guidelines bumps major version number; Enhanced PDF metadata.	1			
v3.1.0	<code>\listspenalty</code> : Added new penalty item to allow long captions to be split between pages	13			

standard spacing when using expanded spacing.	6	General: Removed <code>\@semester</code> macro since it's no longer needed.	7
<code>thebibliography</code> : Set <code>\itemsep</code> to <code>\refitemsep</code> and set <code>\parsep</code> to 0pt	16	v3.7.0	
<code>singlespaced</code> : New environment providing single-spacing.	7	<code>\@dottedtocline</code> : If pagenumbers exceed the allotted width, use the natural box width instead of the predefined width	13
v3.4.0		<code>\commskip</code> : Increased the name column width, moving column to the left to center it better.	9
<code>\chapheadskip</code> : Changed spacing before chapter header to 0in.	18	<code>\listbaselineskip</code> : New macro to replace previously hard-coded value	5
<code>\evenoddoffset</code> : Adjusted text width for hardcopy option since the text column is now wider.	3	v3.8.0	
<code>\makecommitteepage</code> : Adjusted vertical spacing of the committee page and moved name column closer to center.	10	<code>\@dottedtocline</code> : Added grouping around <code>\normalcolor</code> commands to prevent pdftex warnings	13
<code>\maketitle</code> : Altered spacing for copyright on title page to be consistent with <i>Guidelines 2013</i>	8	v3.9.0	
Removed "THE" from FLORIDA STATE UNIVERSITY.	8	General: Updated layout requirements for dedication page.	1
<code>\textwidth</code> : Set text column to 6.5 inches.	3	<code>dedication</code> : text on page should be vertically centered	12
v3.5.0		v3.9a.0	
<code>\bibsection</code> : Added <code>\interlinepenalty</code> to prevent page breaks mid-item.	17	<code>\makecommitteepage</code> : Added 0.4 <code>baselineskip</code> to top of page for consistent <code>baselineskip</code> spacing throughout.	10
<code>\refindent</code> : Increased stretchiness of <code>\refitemsep</code> to facilitate un-breakable bibliography entries	15	v4.0.0	
General: Add <code>\interlinepenalty</code> to prevent page breaks mid-item.	16	<code>\f@biblatex</code> : Make minor adjustments to bibliography environment to support default biblatex structure	17
<code>references</code> : Added <code>\interlinepenalty</code> to prevent page breaks mid-item.	16	General: Add the <code>\f@biblatex</code> macro for biblatex environment compatibility.	16
<code>thebibliography</code> : Added <code>\interlinepenalty</code> to prevent page breaks mid-entry.	16	v4.1.0	
v3.6.0		<code>\footskip</code> : Reset <code>\footskip</code> to display the page number 3/4 inch from page bottom.	3
<code>\maketitle</code> : Removed <code>\@semester</code> element to comply with change to FSU format.	8	<code>\maketitle</code> : Adjusted spacing for copyright to since the footer location was dropped 1/4 inch.	8
<code>\semester</code> : Made <code>\semester</code> macro a no-op to comply with change in FSU format.	8	<code>\topmargin</code> : Simplified <code>\topmargin</code> calculation.	2
		v4.2.0	
		<code>\section</code> : Disabled hanging indent	

for centered section headings
that take up multiple lines . . . 19

v4.3.0

`\paragraph`: Replaced SMALL

CAPS headings with *Slanted*
Sans Serif headings. 19

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