

The muthesis class*

Paul D. Gessler
paul.gessler@marquette.edu

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Abstract

Put text here.

Contents

1	Introduction	1
2	Usage	1
3	Implementation	1

1 Introduction

Put text here.

2 Usage

Put text here.

<code>\YOURMACRO</code>	Put description of <code>\YOURMACRO</code> here.
<code>YOURENV</code>	Put description of <code>YOURENV</code> here.

3 Implementation

```
1 \newcommand\@ptsize{}
2 \RequirePackage{setspace}
3 \newif\if@mainmatter \@mainmattertrue
4 \DeclareOption{a4paper}{%
5   \setlength\paperheight {297mm}%
6   \setlength\paperwidth  {210mm}}
7 \DeclareOption{letterpaper}{%
```

*This document corresponds to muthesis 1.0, dated 2012/10/19.

```

8 \setlength\paperheight {11in}%
9 \setlength\paperwidth {8.5in}}
10 \DeclareOption{10pt}{\renewcommand\@ptsize{0}}
11 \DeclareOption{11pt}{\renewcommand\@ptsize{1}}
12 \DeclareOption{12pt}{\renewcommand\@ptsize{2}}
13 \DeclareOption{draft}{\setlength\overfullrule{5pt}}
14 \DeclareOption{final}{\setlength\overfullrule{0pt}}
15 \DeclareOption{leqno}{\input{leqno.clo}}
16 \DeclareOption{fleqn}{\input{fleqn.clo}}
17 \DeclareOption{openbib}{%
18 \AtEndOfPackage{%
19 \renewcommand\@openbib@code{%
20 \advance\leftmargin\bibindent
21 \itemindent -\bibindent
22 \listparindent \itemindent
23 \parsep \z@
24 }%
25 \renewcommand\newblock{\par}
26 }
27 }
28 \ExecuteOptions{letterpaper,12pt,final}
29 \ProcessOptions
30 \input{bk1\@ptsize.clo}
31 \setlength\lineskip{1\p@}
32 \setlength\normallineskip{1\p@}
33 \renewcommand\baselinestretch{}
34 \setlength\parskip{0\p@ \@plus \p@}
35 \@lowpenalty 51
36 \@medpenalty 151
37 \@highpenalty 301
38 \setcounter{topnumber}{2}
39 \renewcommand\topfraction{.7}
40 \setcounter{bottomnumber}{1}
41 \renewcommand\bottomfraction{.3}
42 \setcounter{totalnumber}{3}
43 \renewcommand\textfraction{.2}
44 \renewcommand\floatpagefraction{.5}
45 \setcounter{dbltopnumber}{2}
46 \renewcommand\dbltopfraction{.7}
47 \renewcommand\dblfloatpagefraction{.5}
48 \def\ps@myheadings{%
49 \let\@oddfoot\@empty\let\@evenfoot\@empty
50 \def\@evenhead{\thepage\hfil\slshape\leftmark}%
51 \def\@oddhead{\slshape\rightmark\hfil\thepage}%
52 \let\@mkboth\@gobbletwo
53 \let\chaptermark\@gobble
54 \let\sectionmark\@gobble
55 }
56 \def\degree#1{\gdef\@degree{#1}}
57 \def\degreemo#1{\gdef\@degreemo{#1}}

```

```

58 \def\degreeyr#1{\gdef\@degreeyr{#1}}
59 \newcommand\maketitle{\begin{singlespace}
60   \begin{titlepage}%
61     \begin{center}%
62       \@title
63       \vfill
64       by
65       \vskip 1em
66       \@author
67       \vfill
68       A Thesis submitted to the Faculty of the Graduate School,\
69       Marquette University,\
70       in Partial Fulfillment of the Requirements for\
71       the Degree of \@degree{}
72       \vfill
73       Milwaukee, Wisconsin
74       \vskip 1em
75       \@degree~\@degreeyr
76     \end{center}
77   \end{titlepage}%
78   \end{singlespace}
79   \setcounter{footnote}{0}%
80   \global\let\maketitle\relax
81 }
82 \newcommand*\chaptermark[1]{%
83 \setcounter{secnumdepth}{2}
84 \newcounter{chapter}
85 \newcounter{section}[chapter]
86 \newcounter{subsection}[section]
87 \newcounter{subsubsection}[subsection]
88 \newcounter{paragraph}[subsubsection]
89 \newcounter{subparagraph}[paragraph]
90 \renewcommand \thechapter      {\@arabic\c@chapter}
91 \renewcommand \thesection      {\thechapter.\@arabic\c@section}
92 \renewcommand \thesubsection   {\thesection.\@arabic\c@subsection}
93 \renewcommand \thesubsubsection{\thesubsection.\@arabic\c@subsubsection}
94 \renewcommand \theparagraph    {\thesubsubsection.\@arabic\c@paragraph}
95 \renewcommand \thesubparagraph {\theparagraph.\@arabic\c@subparagraph}
96 \newcommand\@chapapp{\chaptername}
97 \newcommand\frontmatter{%
98   \cleardoublepage
99   \@mainmatterfalse
100  \pagenumbering{roman}}
101 \newcommand\mainmatter{%
102   \cleardoublepage
103   \@mainmattertrue
104   \pagenumbering{arabic}}
105 \newcommand\backmatter{%
106   \clearpage
107   \@mainmatterfalse}

```

```

108
109 \newcommand\chapter{
110   \clearpage
111   \thispagestyle{myheadings}%
112   \global\@topnum\z@
113   \@afterindentfalse
114   \secdef\@chapter\@schapter
115 }
116 \def\@chapter[#1]#2{\ifnum \c@secnumdepth >\m@ne
117   \if@mainmatter
118     \refstepcounter{chapter}%
119     \typeout{\@chapapp\space\thechapter.}%
120     \addcontentsline{toc}{chapter}%
121     {\protect\numberline{\thechapter}#1}%
122     \else
123       \addcontentsline{toc}{chapter}{#1}%
124     \fi
125   \else
126     \addcontentsline{toc}{chapter}{#1}%
127   \fi
128   \chaptermark{#1}%
129   \addtocontents{lof}{\protect\addvspace{10\p@}}%
130   \addtocontents{lot}{\protect\addvspace{10\p@}}%
131   \@makechapterhead{#2}%
132   \@afterheading
133 }
134 \def\@makechapterhead#1{%
135   {\parindent \z@ \raggedright \normalfont
136     \ifnum \c@secnumdepth >\m@ne
137       \if@mainmatter
138         \centering{\@chapapp\space \thechapter}
139         \par\nobreak
140         \vskip 2em
141       \fi
142       \fi
143       \interlinepenalty\@M
144       \centering{\bfseries\uppercase{#1}}\par\nobreak
145       \vskip 2em
146     }}
147 \def\@schapter#1{\@makeschapterhead{#1}%
148   \@afterheading}
149 \def\@makeschapterhead#1{%
150   {\parindent \z@ \raggedright
151     \normalfont
152     \interlinepenalty\@M
153     \centering{\uppercase{#1}}\par\nobreak
154     \vskip 2em
155   }}
156 \newcommand\section{\@startsection {section}{1}{\z@}%
157   {-3.5ex \@plus -1ex \@minus -.2ex}%

```

```

158 {2.3ex \@plus.2ex}%
159 {\normalfont\normalsize\bfseries}}
160 \newcommand\subsection{\@startsection{subsection}{2}{\z@}%
161 {-3.25ex\@plus -1ex \@minus -.2ex}%
162 {1.5ex \@plus .2ex}%
163 {\normalfont\normalsize\bfseries}}
164 \newcommand\subsubsection{\@startsection{subsubsection}{3}{\z@}%
165 {-3.25ex\@plus -1ex \@minus -.2ex}%
166 {1.5ex \@plus .2ex}%
167 {\normalfont\normalsize\bfseries}}
168 \newcommand\paragraph{\@startsection{paragraph}{4}{\z@}%
169 {3.25ex \@plus1ex \@minus .2ex}%
170 {-1em}%
171 {\normalfont\normalsize\bfseries}}
172 \newcommand\subparagraph{\@startsection{subparagraph}{5}{\parindent}%
173 {3.25ex \@plus1ex \@minus .2ex}%
174 {-1em}%
175 {\normalfont\normalsize\bfseries}}
176 \setlength\leftmargini {2.5em}
177 \leftmargin \leftmargini
178 \setlength\leftmarginii {2.2em}
179 \setlength\leftmarginiii {1.87em}
180 \setlength\leftmarginiv {1.7em}
181 \setlength\leftmarginv {1em}
182 \setlength\leftmarginvi {1em}
183 \setlength \labelsep {0.5em}
184 \setlength \labelwidth{\leftmargini}
185 \addtolength\labelwidth{-\labelsep}
186 \@beginparpenalty -\@lowpenalty
187 \@endparpenalty -\@lowpenalty
188 \@itempenalty -\@lowpenalty
189 \renewcommand\theenumi{\@arabic\c@enumi}
190 \renewcommand\theenumii{\@alph\c@enumii}
191 \renewcommand\theenumiii{\@roman\c@enumiii}
192 \renewcommand\theenumiv{\@Alph\c@enumiv}
193 \newcommand\labelenumi{\theenumi.}
194 \newcommand\labelenumii{(\theenumii)}
195 \newcommand\labelenumiii{\theenumiii.}
196 \newcommand\labelenumiv{\theenumiv.}
197 \renewcommand\p@enumii{\theenumi}
198 \renewcommand\p@enumiii{\theenumi(\theenumii)}
199 \renewcommand\p@enumiv{\p@enumiii\theenumiii}
200 \newcommand\labelitemi{\textbullet}
201 \newcommand\labelitemii{\normalfont\bfseries \textendash}
202 \newcommand\labelitemiii{\textasteriskcentered}
203 \newcommand\labelitemiv{\textperiodcentered}
204 \newenvironment{description}
205 {\list{}{\labelwidth\z@ \itemindent-\leftmargin
206 \let\makelabel\descriptionlabel}}
207 {\endlist}

```

```

208 \newcommand*{\descriptionlabel[1]{\hspace\labelsep
209   \normalfont\bfseries #1}
210 \newenvironment{abstract}
211   {\thispagestyle{empty}
212    \begin{singlespace}
213    \begin{center}
214      ABSTRACT\
215      \@title
216      \vskip 2em
217      \@author
218      \vskip 1em
219      Marquette University, \@degreeyr
220      \vskip 2em
221    \end{center}}
222    {\setcounter{page}{0} \end{singlespace}}
223 \newenvironment{acknowledgments}
224   {\addcontentsline{toc}{chapter}{Acknowledgments}
225    \begin{singlespace}
226    \begin{center}
227      ACKNOWLEDGMENTS
228      \vskip 2em
229      \@author
230      \vskip 2em
231    \end{center}}
232    {\end{singlespace}}
233 \newenvironment{dedication}
234   {\addcontentsline{toc}{chapter}{Dedication}
235    \begin{singlespace}
236    \begin{center}
237      DEDICATION
238      \vskip 2em
239    \end{center}}
240    {\end{singlespace}}
241 \newenvironment{verse}
242   {\let\\\@centercr
243    \list{}{\itemsep \z@
244     \itemindent -1.5em%
245     \listparindent\itemindent
246     \rightmargin \leftmargin
247     \advance\leftmargin 1.5em}%
248    \item\relax}
249   {\endlist}
250 \newenvironment{quotation}
251   {\list{}{\listparindent 1.5em%
252    \itemindent \listparindent
253    \rightmargin \leftmargin
254    \parsep \z@ \@plus\p@}%
255    \item\relax}
256   {\endlist}
257 \newenvironment{quote}

```

```

258 {\list}{\rightmargin\leftmargin}%
259 \item\relax}
260 {\endlist}
261 \newenvironment{titlepage}
262 {\cleardoublepage
263 \newpage
264 \thispagestyle{empty}%
265 \setcounter{page}\@ne}
266 {\newpage
267 \setcounter{page}\@ne
268 }
269 \newcommand\appendix{\par
270 \addcontentsline{toc}{chapter}{APPENDICES}
271 \setcounter{chapter}{0}%
272 \setcounter{section}{0}%
273 \gdef\@chapapp{\appendixname}%
274 \gdef\thechapter{\@Alph{c}chapter}}
275 \setlength\arraycolsep{5\p@}
276 \setlength\tabcolsep{6\p@}
277 \setlength\arrayrulewidth{.4\p@}
278 \setlength\doublerulesep{2\p@}
279 \setlength\tabbingsep{\labelsep}
280 \skip\@mpfootins = \skip\footins
281 \setlength\fbxsep{3\p@}
282 \setlength\fbxrule{.4\p@}
283 \@addtoreset{equation}{chapter}
284 \renewcommand\theequation
285 {\ifnum \c@chapter>\z@ \thechapter.\fi \@arabic{c@equation}}
286 \newcounter{figure}[chapter]
287 \renewcommand \thefigure
288 {\ifnum \c@chapter>\z@ \thechapter.\fi \@arabic{c@figure}}
289 \def\fps@figure{tbp}
290 \def\ftype@figure{1}
291 \def\ext@figure{lof}
292 \def\fnm@figure{\figurename\nobreakspace\thefigure}
293 \newenvironment{figure}
294 {\@float{figure}}
295 {\end@float}
296 \newenvironment{figure*}
297 {\@dblfloat{figure}}
298 {\end@dblfloat}
299 \newcounter{table}[chapter]
300 \renewcommand \thetable
301 {\ifnum \c@chapter>\z@ \thechapter.\fi \@arabic{c@table}}
302 \def\fps@table{tbp}
303 \def\ftype@table{2}
304 \def\ext@table{lot}
305 \def\fnm@table{\tablename\nobreakspace\thetable}
306 \newenvironment{table}
307 {\@float{table}}

```

```

308   {\end@float}
309 \newenvironment{table*}
310   {\@dblfloat{table}}
311   {\end@dblfloat}
312 \newlength\abovecaptionskip
313 \newlength\belowcaptionskip
314 \setlength\abovecaptionskip{10\p@}
315 \setlength\belowcaptionskip{0\p@}
316 \long\def\@makecaption#1#2{%
317   \vskip\abovecaptionskip
318   \sbox\@tempboxa{#1: #2}%
319   \ifdim \wd\@tempboxa >\hsize
320     #1: #2\par
321   \else
322     \global \@minipagefalse
323     \hb@xt@\hsize{\hfil\box\@tempboxa\hfil}%
324   \fi
325   \vskip\belowcaptionskip}
326 \DeclareOldFontCommand{\rm}{\normalfont\rmfamily}{\mathrm}
327 \DeclareOldFontCommand{\sf}{\normalfont\sffamily}{\mathsf}
328 \DeclareOldFontCommand{\tt}{\normalfont\ttfamily}{\mathtt}
329 \DeclareOldFontCommand{\bf}{\normalfont\bfseries}{\mathbf}
330 \DeclareOldFontCommand{\it}{\normalfont\itshape}{\mathit}
331 \DeclareOldFontCommand{\sl}{\normalfont\slshape}{\@nomath\sl}
332 \DeclareOldFontCommand{\sc}{\normalfont\scshape}{\@nomath\sc}
333 \DeclareRobustCommand*\cal{\@fontswitch\relax\mathcal}
334 \DeclareRobustCommand*\mit{\@fontswitch\relax\mathnormal}
335 \newcommand\@pnumwidth{1.55em}
336 \newcommand\@tocrmarg{2.55em}
337 \newcommand\@dotsep{4.5}
338 \setcounter{tocdepth}{2}
339 \newcommand\tableofcontents{%
340   \chapter*{\contentsname}
341   \begin{inglespace}
342     \starttoc{toc}
343   \end{inglespace}
344 }
345 \newcommand*\l@chapter[2]{%
346   \ifnum \c@tocdepth >\m@ne
347     \addpenalty{-\@highpenalty}%
348     \vskip 1.4em \@plus\p@
349     \setlength\@tempdima{1.5em}%
350     \begingroup
351       \parindent \z@ \rightskip \@pnumwidth
352       \parfillskip -\@pnumwidth
353       \leavevmode
354       \advance\leftskip\@tempdima
355       \hskip -\leftskip
356       \MakeUppercase{#1}\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
357       \penalty\@highpenalty

```



```

358     \endgroup
359   \fi}
360 \newcommand*\l@section{\@dottedtocline{1}{1.5em}{2.3em}}
361 \newcommand*\l@subsection{\@dottedtocline{2}{3.8em}{3.2em}}
362 \newcommand*\l@subsubsection{\@dottedtocline{3}{7.0em}{4.1em}}
363 \newcommand*\l@paragraph{\@dottedtocline{4}{10em}{5em}}
364 \newcommand*\l@subparagraph{\@dottedtocline{5}{12em}{6em}}
365 \newcommand\listoffigures{%
366   \chapter*{\listfigurename}%
367   \addcontentsline{toc}{chapter}{\listfigurename}
368   \begin{singlespace}
369     \starttoc{lof}
370   \end{singlespace}}
371 \newcommand*\l@figure{\@dottedtocline{1}{1.5em}{2.3em}}
372 \newcommand\listoftables{%
373   \chapter*{\listtablename}%
374   \addcontentsline{toc}{chapter}{\listtablename}
375   \begin{singlespace}
376     \starttoc{lot}
377   \end{singlespace}}
378 \let\l@table\l@figure
379 \newdimen\bibindent
380 \setlength\bibindent{1.5em}
381 \newenvironment{thebibliography}[1]
382   {\chapter*{\bibname}%
383    \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
384    \list{\@biblabel{\@arabic\c@enumiv}}%
385    {\settowidth\labelwidth{\@biblabel{#1}}%
386     \leftmargin\labelwidth
387     \advance\leftmargin\labelsep
388     \@openbib@code
389     \usecounter{enumiv}%
390     \let\p@enumiv\@empty
391     \renewcommand\theenumiv{\@arabic\c@enumiv}}%
392    \sloppy
393    \clubpenalty4000
394    \@clubpenalty \clubpenalty
395    \widowpenalty4000%
396    \sfcode'\.\@m}
397   {\def\@noitemerr
398    {\@latex@warning{Empty 'thebibliography' environment}}%
399    \endlist}
400 \newcommand\newblock{\hspace .11em\@plus.33em\@minus.07em}
401 \let\@openbib@code\@empty
402 \newenvironment{theindex}
403   {\twocolumn[\@makeschapterhead{\indexname}]%
404    \@mkboth{\MakeUppercase\indexname}%
405    {\MakeUppercase\indexname}%
406    \thispagestyle{myheadings}\parindent\z@
407    \parskip\z@ \@plus .3\p@\relax

```

```

408 \columnseprule \z@
409 \columnsep 35\p@
410 \let\item\@idxitem}
411 {\clearpage}
412 \newcommand\@idxitem{\par\hangindent 40\p@}
413 \newcommand\subitem{\@idxitem \hspace*{20\p@}}
414 \newcommand\subsubitem{\@idxitem \hspace*{30\p@}}
415 \newcommand\indexspace{\par \vskip 10\p@ \@plus5\p@ \@minus3\p@\relax}
416 \renewcommand\footnoterule{%
417 \kern-3\p@
418 \hrule\@width.4\columnwidth
419 \kern2.6\p@}
420 \@addtoreset{footnote}{chapter}
421 \newcommand\@makefnmark[1]{%
422 \parindent 1em%
423 \noindent
424 \hb@xt@1.8em{\hss\@makefnmark}#1}
425 \newcommand\contentsname{\uppercase{Table of Contents}}
426 \newcommand\listfigurename{\uppercase{List of Figures}}
427 \newcommand\listtablename{\uppercase{List of Tables}}
428 \newcommand\bibname{\uppercase{Bibliography}}
429 \newcommand\indexname{Index}
430 \newcommand\figurename{Figure}
431 \newcommand\tablename{Table}
432 \newcommand\chaptername{\uppercase{Chapter}}
433 \newcommand\appendixname{\uppercase{Appendix}}
434 \def\today{\ifcase\month\or
435 January\or February\or March\or April\or May\or June\or
436 July\or August\or September\or October\or November\or December\fi
437 \space\number\day, \number\year}
438 \setlength\columnsep{10\p@}
439 \setlength\columnseprule{0\p@}
440 \pagestyle{myheadings}
441 \raggedbottom
442 \raggedright
443 \onecolumn
444 \setlength{\parindent}{0.5in}
445 \setlength{\textwidth}{6in}
446 \setlength{\textheight}{9in}
447 \setlength{\oddsidemargin}{0.5in}
448 \setlength{\evensidemargin}{0.5in}
449 \setlength{\headheight}{1em}
450 \setlength{\topmargin}{-0.5in}
451 \addtolength{\topmargin}{-\headheight}
452 \setlength{\headsep}{0.5in}
453 \doublespacing
454 \endinput

```