

The `adfathesis` class

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Abstract

This article describes the `adfathesis` class, which is designed as the ADFA PhD thesis style — a modification to the `report` class: Style information from the ‘1993 Handbook’ for the University College known as the ‘Blue Book’, see pages 168 to 170. Updated for 1997. This version is modified only to use the `docstrip` mechanism.

1 Introduction

The `adfathesis` class is based on the Monash University version of `suthesis.sty` called `monthesis.sty` by Tony McGrath, Dept. of Physics, Monash Uni: 5-NOV-87 and the `adfathesis.sty` that is/was on `ccadfa.cc.adfa.oz.au`.

Some basic information on the use of `adfathesis` follows. This class file can only be used under L^AT_EX 2_ε. Firstly an example of use:

```
\documentclass[a4paper,12pt,openright,twoside]{adfathesis}

% Control which chapters are LaTeX'd in this run with

\includeonly{chapter1,chapter2,chapter3}

\title{How to Write Theses\
      With Two Line Titles}
\authornameonly{John Henry Candidate}
\author{\Authornameonly \ B.Sc.(Hons)}
\copyrightfalse      % No copyright page
\figurespagefalse    % No List of Figures
\tablespagefalse     % No List of Tables

\begin{document}
\beforepreface
\prefacesection{Abstract}
  This thesis tells you all you need to know about...
\declaration         % Declaration page
\prefacesection{Acknowledgements}
  I would like to thank...
```

```

\afterpreface

\include{chapter1} % Introduction
...
\include{chapter6} % Conclusions
...
\appendix
\include{appendix1} % A Long Proof
...
\clearpage % Needed to get page
\addcontentsline{toc}{chapter}{References} % in TOC correct.
\bibliographystyle{adfathesis}
\bibliography{mybib}
\end{document}

```

2 Documentation:

This class modifies the standard report class to meet the ADFA requirements given in the *University College Handbook*. It sets the margins, interline spacing, the figure and table numbering style, and disallows page breaks at hyphens.

The `\beforepreface` command creates the title page, a copyright page (optionally), and the table of contents. Then the user should put preface section(s), using the command `\prefacesection{Section Title}`, this should include the declaration page. The tables of tables and figures are then produced by the `\afterpreface` command, which also sets things up to start the main body (on arabic page 1).

The following commands can control what goes in the front matter material:

```

\title{thesis title} Title of the thesis.

\authornameonly{name} The author's name without degrees earned, needed for the
declaration.

\author{name} The author's name with degrees earned, for the titlepage.

\dept{department} The default value is School of Physics.

\thesistype{Type of thesis} The default value is Doctor of Philosophy, for an Hon-
ours report this should be the faculty (e.g. Science).

\degreetype{Faculty for degree} The default value is Science, used for Honours
only.

\submitdate{date} Month and year in which submitted; date LATEX'd if omitted.

\copyrightyear{year} Year degree conferred, or year LATEX'd if omitted (next year if
in December).

\declaration Produce the required declaration that the thesis is all the author's own
work.

```

`\copyrighttrue` Produce or `\copyrightfalse` don't produce a '*copyright*' page (true by default).

`\figurespagetrue` Produce or `\figurespagefalse` don't produce a '*List of Figures*' page (true by default).

`\tablespagetrue` Produce or `\tablespagefalse` don't produce a '*List of Tables*' page (true by default).

This class uses space and a half interline spacing, except in footnote, figure and table environments where normal spacing is used. The command: '`\linespread}{1.655}`' can be used to change this (use whatever you want instead of 1.655). For 12 point Computer Modern fonts 1.241 corresponds to space and a half, and 1.655 to double spacing. This command should be given in the preamble (i.e. before the '`\begin{document}`').

The example given shows the 12pt option being used. This is required by the 1997 handbook, but may be omitted (at your own risk) to get smaller print. There are three options which may be declared in `\documentclass[a4paper,12pt]{adfathesis}`:

- **draft** which changes the pagestyle to include the date on the page header.
- **normalbib** which stops the document using the Harvard style, and hence allows use of either the standard L^AT_EX bibliography style or an alternative package. The supplied `adfathesis.bst` may not be appropriate in this case. so you could use an alternative such as `plain.bst`.
- **honours** which changes the titlepage to one more appropriate to an Honours report.

To get the correct page number for the bibliography in the table of contents you need to put a '`\clearpage`' command before the '`\addcontentsline`' command. The thickness of the rules used for the chapter headings is controlled by '`\chaprule`' and can be set to another value, say 0 pt, by the command '`\setlength{\chaprule}{0pt}`' in the preamble. There is a maximum value of 6 pt for '`\chaprule`'.

3 The code

The current version is defined at the top of the file looking something like this

```
1 <*package>
2 %\NeedsTeXFormat{LaTeX2e}
3 %\ProvidesPackage{adfathesis}
4 %      [\filedate\space version\fileversion]
```

First we set up some new flags: A new flag for draft printing, at this stage all I do is reset the page style. This is not true by default, must be changed in the thesis BASE file A new flag whether to use the Harvard bib package? This is true by default, must be changed in the thesis BASE file A new flag whether a

Honours report rather than PhD or Masters thesis? This is not true by default, must be changed in the thesis BASE file

```

5 \newif\ifATdr@ft
6 \ATdr@ftfalse
7 \newif\ifAT@harvbib
8 \AT@harvbibtrue
9 \newif\ifAT@nours
10 \AT@noursfalse

```

Now we define the default values for the flags, and make 12 point text the default.

```

11 \newcommand{\ptsize}{12}
12 \DeclareOption{draft}
13   {\ATdr@fttrue
14    \PassOptionsToClass{draft}{report}}
15 \DeclareOption{normalbib}
16   {\AT@harvbibfalse}
17 \DeclareOption{harvard}
18   {\AT@harvbibtrue}
19 \DeclareOption{honours}
20   {\AT@nourstrue}
21 \DeclareOption{10pt}{\renewcommand{\ptsize}{10pt}}
22 \DeclareOption{11pt}{\renewcommand{\ptsize}{11pt}}
23 \DeclareOption{12pt}{\renewcommand{\ptsize}{12pt}}
24 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{report}}
25 \ExecuteOptions{12pt}

```

Now process the options and load the standard report class. We merely make modifications to the report class.

```

26 \ProcessOptions\relax
27 \LoadClass[a4paper,\ptsize]{report}
28 \ifAT@harvbib\IfFileExists{harvard.sty}{\RequirePackage{harvard}}%
29   {\ClassError{\filename}{%
30    The Harvard package was not found.}{%
31    The Harvard package controls the bibliography appearance. \MessageBreak
32    \space It is used by default unless you specify the normalbib option. \MessageBreak
33    \space The Harvard package can be obtained from, e.g., ctan.unsw.edu.au
34   }}\fi

```

From the Blue book we find the following regulations: The size of the paper shall approximate A4 (297mm x 210 mm). The margins on each sheet shall be not less than 40mm on the left hand side, 20mm on the right hand side, 30mm at the top and 20mm at the bottom. T_EX has default margins of 1 inch (25.4mm) at the top and left.

Use the code from size12.clo to set `\textheight` to an integer multiple of `\baselineskips`. Use `\raggedbottom` and add one `\baselineskip` to `\topskip` to allow pagelength to vary.

```

35 \setlength{\oddsidemargin} {1.5cm}
36 \setlength{\evensidemargin} {-0.5cm}

```

```

37 \setlength{\marginparwidth} {40\p@}
38 \setlength{\marginparsep} {10\p@}
39 \setlength{\topmargin} {-0.6cm}
40 \setlength{\headheight} {15\p@}
41 \setlength{\headsep} {0.5cm}
42 \setlength{\textwidth} {14.9cm}
43 \setlength\@tempdima{\paperheight}
44 \addtolength\@tempdima{-30mm}
45 \addtolength\@tempdima{-20mm}
46 \divide\@tempdima\baselineskip
47 \@tempcnta=\@tempdima
48 \setlength\textheight{\@tempcnta\baselineskip}
49 \addtolength\textheight{\topskip}
50 \setlength\topskip{1\topskip \@plus 1\baselineskip}
51 \setlength{\parskip}{0pt}
52 \raggedbottom

```

Set spacing for space and a half, using values from setspace.sty. Use the new `\linespread` command rather than `\renewcommand{\baselinestretch}{1.25}` etc.

```

53 \ifcase \@ptsize \relax % 10pt
54   \linespread{1.25}%
55 \or % 11pt
56   \linespread{1.213}%
57 \or % 12pt
58   \linespread{1.241}%
59 \fi

```

Next two sections taken from setspace.

```

60 \newcommand{\displayskipstretch}{\baselinestretch}
61 \newcommand{\setdisplayskipstretch}[1]{\renewcommand{\displayskipstretch}{#1}}

```

Fix up spacing before and after displayed math (`arraystretch` seems to do a fine job for inside LaTeX displayed math, since `array` and `eqnarray` seem to be affected as expected). Changing `\baselinestretch` and doing a font change also works if done here, but then you have to change `@setsize` to remove the call to `@nomath`).

```

62 \everydisplay\expandafter{%
63   \the\everydisplay
64   \abovedisplayskip \displayskipstretch\abovedisplayskip
65   \belowdisplayskip \displayskipstretch\belowdisplayskip
66   \abovedisplayshortskip \displayskipstretch\abovedisplayshortskip
67   \belowdisplayshortskip \displayskipstretch\belowdisplayshortskip
68 }

```

The Following changed by Stephen Harker, October 1993 to:

- Make Chapter title centred, and modify size to `\Large` not `\Huge`, use small caps for ‘chapter’ and rules above and below. Rule thickness defined by new length `\chaprul`. To change this use `\setlength`. The value is forced to be less than 6 points below!

- Make corresponding reductions to size of section, subsection and subsubsection headers.
- Rename Bibliography section to References.

```

69 \newlength{\chaprul}
70 \newlength{\ATchapskip}
71 \setlength{\chaprul}{0.4\p@}
72 \setlength{\ATchapskip}{10\p@}
73 \advance \ATchapskip by -1\chaprul
74 \renewcommand{\@makechapterhead}[1]{%
75   \ifdim\chaprul>6\p@ \setlength{\chaprul}{6\p@}\fi
76   \vspace*{\ATchapskip}%
77   \noindent\rule{\textwidth}{\chaprul}\par%
78   \vskip 10\p@
79   {\parindent \z@ \centering \normalfont
80     \ifnum \c@secnumdepth >\m@ne
81       {\Large\scshape \@chapapp\space \thechapter}
82       \par\nobreak
83       \vskip 8\p@
84     \fi
85     \interlinepenalty\@M
86     \Large #1\par\nobreak
87     \vskip 10\p@
88     \noindent\rule{\textwidth}{\chaprul}\par%
89     \vskip\ATchapskip
90   }}
91 \renewcommand{\@makeschapterhead}[1]{%
92   \ifdim\chaprul>6\p@ \setlength{\chaprul}{6\p@}\fi
93   \vspace*{\ATchapskip}%
94   \noindent\rule{\textwidth}{\chaprul}\par%
95   \vskip 10\p@
96   {\parindent \z@ \centering
97     \normalfont
98     \interlinepenalty\@M
99     \Large #1\par\nobreak
100    \vskip 10\p@
101    \noindent\rule{\textwidth}{\chaprul}\par%
102    \vskip\ATchapskip
103   }}
104
105 \renewcommand{\section}{\@startsection{section}{1}{\z@}%
106   {-1.5ex \@plus-1ex \@minus -.2ex}{0.8ex \@plus.2ex}%
107   {\normalfont\large\raggedright}}
108 \renewcommand{\subsection}{\@startsection{subsection}{2}{\z@}%
109   {-1.2ex \@plus -.5ex \@minus-.2ex}{0.5ex \@plus.1ex}%
110   {\normalfont\normalsize\itshape\raggedright}}
111 \renewcommand{\subsubsection}{\@startsection{subsubsection}{3}{\z@}%
112   {-1.0ex\@plus -.5ex \@minus -.2ex}{0.3ex \@plus .1ex}%
113   {\normalfont\normalsize\itshape\raggedright}}

```

```

114 \renewcommand{\paragraph}{\@startsection{paragraph}{4}{\z@}%
115     {1.0ex \@plus.5ex \@minus.2ex}{-1em}%
116     {\normalfont\normalsize\itshape\raggedright}}
117 \renewcommand{\subparagraph}{\@startsection{subparagraph}{5}{\parindent}%
118     {1.0ex \@plus.5ex \@minus .2ex}{-1em}%
119     {\normalfont\normalsize\itshape\raggedright}}
120
121 \renewcommand{\bibname}{References}

```

The following is taken from `sober.sty`, Nico Poppelier and `rapport1.cls` (NTG classes). Makes list (`enumerate` and `itemize`) more reasonable in vertical space, by adjusting the spacing between items. Unfortunately in the `size*.clo` files `\small` etc also redefine these values. We could redefine `\small` etc, but they are size dependent! Leave alone, since `\small` is not usually used as an environment, at least not for large sections of a document.

```

122 \def\@listi{\leftmargin\leftmargini
123     \labelsep .5em%
124     \labelwidth\leftmargini
125     \advance\labelwidth-\labelsep
126     \parsep \z@
127     \topsep 0.4ex \@plus\p@
128     \itemsep 0\p@ \@plus\p@}
129 \let\@listI\@listi
130 \@listi
131 \def\@listii{\leftmargin\leftmarginii
132     \labelsep .5em%
133     \labelwidth\leftmarginii
134     \advance\labelwidth-\labelsep
135     \topsep 0\p@ \@plus\p@
136     \parsep \z@ \@plus\p@
137     \itemsep \parsep}
138 \def\@listiii{\leftmargin\leftmarginiii
139     \labelsep .5em%
140     \labelwidth\leftmarginiii
141     \advance\labelwidth-\labelsep
142     \topsep 0\p@ \@plus\p@
143     \parsep \z@
144     \partopsep \z@ \@plus\p@
145     \itemsep \topsep}
146 \def\@listiv{\leftmargin\leftmarginiv
147     \labelsep .5em%
148     \labelwidth\leftmarginiv
149     \advance\labelwidth-\labelsep
150     \topsep 0\p@ \@plus\p@
151     \parsep \z@
152     \partopsep \z@ \@plus\p@
153     \itemsep \topsep}
154 \def\@listv{\leftmargin\leftmarginv
155     \labelsep .5em%
156     \labelwidth\leftmarginv

```

```

157 \advance\labelwidth-\labelsep%
158 \topsep 0\p@ \@plus\p@
159 \parsep \z@
160 \itemsep \z@ \@plus\p@}
161 \def\@listvi{\leftmargin\leftmarginvi
162 \labelsep .5em
163 \labelwidth\leftmarginvi
164 \advance\labelwidth{-\labelsep}%
165 \topsep 0\p@ \@plus\p@
166 \parsep \z@
167 \itemsep \z@ \@plus\p@}

```

Next re-define `\cleardoublepage` as recommended by Piet van Oostrum in the documentation for `fancyhdr.sty` page 15. This is to avoid blank pages having headers or footers.

```

168 \renewcommand{\cleardoublepage}{\clearpage\if@twoside \ifodd\c@page\else
169 \thispagestyle{empty}
170 \hbox{} \newpage\if@twocolumn\hbox{} \newpage\fi\fi}

```

Reduce widow/orphan problems, mainly from a posting from Donald Arsenau on `comp.text.tex`, 24 Sep 1995. Updated to follow comments from Michael Downes on `comp.text.tex`, 31 Aug 1998.

```

171 \doublehyphendemerits=10000 % No consecutive line hyphens.
172 \brokenpenalty=4991 % Reduce broken words across columns/pages.
173 \widowpenalty=9999 % Almost no widows at bottom of page.
174 \clubpenalty=9996 % Almost no orphans at top of page.
175 \interfootnotelinepenalty=9999 % Almost never break footnotes.
176 \predisplaypenalty=10000 % Default value
177 \postdisplaypenalty=1549 % Few breaks between display and widows
178 \displaywidowpenalty=1602 % At least as high as \postdisplaypenalty

```

Change float placement parameters to reduce problems. Based on values posted by Donald Arsenau on `comp.text.tex` at various times. See in particular 17th Nov 1997.

```

179 \renewcommand{\topfraction}{.85}
180 \renewcommand{\bottomfraction}{.7}
181 \renewcommand{\textfraction}{.15}
182 \renewcommand{\floatpagefraction}{.66}
183 \renewcommand{\dbltopfraction}{.66}
184 \renewcommand{\dblfloatpagefraction}{.66}
185 \setcounter{topnumber}{9}
186 \setcounter{bottomnumber}{9}
187 \setcounter{totalnumber}{20}
188 \setcounter{dbltopnumber}{9}

```

Make tables and figures default to small text and be single spaced, and modify caption macro to allow this to take effect in the caption. Use this version rather than previous redefinition of `\@xfloat`, see `setspace.sty` for an improved example of the latter. From `comp.text.tex`, Donald Arsenau 25 July 1996. Also reverse `\abovecaptionskip` and `\belowcaptionskip` for tables.

```

189 \renewenvironment{table}
190     {\setlength{\abovecaptionskip}{0\p@}
191      \setlength{\belowcaptionskip}{10\p@}
192      \linespread{1}\normalfont\small\@float{table}}
193     {\end@float}
194 \renewenvironment{table*}
195     {\setlength{\abovecaptionskip}{0\p@}
196      \setlength{\belowcaptionskip}{10\p@}
197      \linespread{1}\normalfont\small\@dblfloat{table}}
198     {\end@dblfloat}
199 \renewenvironment{figure}
200     {\linespread{1}\normalfont\small\@float{figure}}
201     {\end@float}
202 \renewenvironment{figure*}
203     {\linespread{1}\normalfont\small\@dblfloat{figure}}
204     {\end@dblfloat}
205 \long\def\@caption#1[#2]#3{\par\addcontentsline{\csname
206   ext@#1\endcsname}{#1}{\protect\numberline{\csname
207   the#1\endcsname}{\ignorespaces #2}}\begingroup
208   \@parboxrestore
209   \if@minipage
210     \setminipage
211     \fi
212   \@makecaption{\csname fnum@#1\endcsname}{\ignorespaces #3}\par
213   \endgroup}

```

Also use Donald Arsenau's modified `\@makecaption` which fixes problems with spacing of captions before tables. Taken from `comp.text.tex` 21 May 1997. Regular version (acts like regular caption, but with Donald Arsenau's improvements).

```

214 \def\onecaptflag{268 }
215 \renewcommand{\@makecaption}[2]{\let\@tempa\relax
216   \ifdim\prevdepth>-99\p@ \vskip\abovecaptionskip \relax
217   \else \def\@tempa{\vbox to\topskip{}}\fi
218   {#1: }\@tempa \vadjust{\penalty \onecaptflag}%
219   #2\@finalstrut\strutbox\par
220   \ifnum\lastpenalty=\onecaptflag % single line; centre it
221     \unpenalty \setbox\@tempboxa\lastbox
222     \nointerlineskip
223     \hbox to\hsize{\hskip\parfillskip\unhbox\@tempboxa}%
224   \fi \vskip\belowcaptionskip}

```

Number figures, tables and equations by chapter. Re-define footnotes and minipage footnotes to be single spaced. Make new macros needed for thesis definitions.

```

225 \renewcommand{\thefigure}{\thechapter.\@arabic\c@figure}
226 \renewcommand{\thetable}{\thechapter.\@arabic\c@table}
227 \renewcommand{\theequation}{\thechapter.\@arabic\c@equation}

```

Re-define `\@footnotetext` and `\@mpfootnotetext` to use single spacing rather than the space-and-a-half that is the default elsewhere.

```

228 \renewcommand{\@footnotetext}[1]{\insert\footins{%
229   \linespread{1}\normalfont\footnotesize%
230   \interlinepenalty\interfootnotelinepenalty
231   \splittopskip\footnotesepp
232   \splitmaxdepth \dp\strutbox \floatingpenalty \@MM
233   \hsize\columnwidth \@parboxrestore
234   \protected@edef\@currentlabel{%
235     \csname p@footnote\endcsname\@thefnmark}%
236   \color@begingroup
237     \makefnfntext{%
238       \rule{z@footnotesepp\ignorespaces#1\@finalstrut\strutbox}%
239     \color@endgroup}}
240
241 \renewcommand{\@mpfootnotetext}[1]{%
242   \global\setbox\@mpfootins\vbox{%
243     \unvbox \@mpfootins
244     \linespread{1}\normalfont\footnotesize%
245     \hsize\columnwidth
246     \@parboxrestore
247     \protected@edef\@currentlabel{%
248       \csname p@mpfootnote\endcsname\@thefnmark}%
249     \color@begingroup
250       \makefnfntext{%
251         \rule{z@footnotesepp\ignorespaces#1\@finalstrut\strutbox}%
252       \color@endgroup}}

```

Now Define thesis related commands. Another change is to add `\thesistype` which can be defined as appropriate for Masters or Doctoral thesis (default Doctoral).

```

253 \newcommand{\dept}[1]{\gdef\@dept{#1}}
254 \newcommand{\thesistype}[1]{\gdef\@thesistype{#1}}
255 \newcommand{\degreetype}[1]{\gdef\@degreetype{#1}}
256 \newcommand{\principaladviser}[1]{\gdef\@principaladviser{#1}}
257 \newcommand{\advis@r}{Advisor}
258 \newcommand{\principaladvis@r}[1]{\gdef\@principaladviser{#1}%
259   \gdef\advis@r{Advisor}}
260 \newcommand{\firstreader}[1]{\gdef\@firstreader{#1}}
261 \newcommand{\secondreader}[1]{\gdef\@secondreader{#1}}
262 \newcommand{\submitdate}[1]{\gdef\@submitdate{#1}}
263 \newcommand{\copyrightyear}[1]{\gdef\@copyrightyear{#1}} % \author, \title
264 % in report
265
266 \renewcommand{\@title}{}
267 \renewcommand{\@author}{}
268 \newcommand{\@dept}{Physics}
269 \newcommand{\@thesistype}{Doctor of Philosophy}
270 \newcommand{\@degreetype}{Science}
271 \newcommand{\@principaladviser}{}
272 \newcommand{\@firstreader}{}
273 \newcommand{\@secondreader}{}

```

```

274 \newcommand{\@submitdate}{\ifcase\the\month\or
275   January\or February\or March\or April\or May\or June\or
276   July\or August\or September\or October\or November\or December\fi
277   \space \number\the\year}
278 \ifnum\month=12
279   \@tempcnta=\year \advance\@tempcnta by 1
280   \edef\@copyrightyear{\number\the\@tempcnta}
281 \else
282   \newcommand{\@copyrightyear}{\number\the\year}
283 \fi
284
285 \newif\ifcopyright
286 \newif\iffigurespage
287 \newif\iftablespage
288 \copyrighttrue
289 \figurespagetrue
290 \tablespagetrue

```

A new definition, mainly for the declaration.

```

291 \newcommand{\authornameonly}[1]{\gdef\Authornameonly{#1}}

```

Title page, copyrightpage and declaration page definitions. Add re-definition for Honours reports rather than Higher Degree theses.

```

292 \newcommand{\titlep}{%
293   \pagestyle{empty}%
294   \null\vskip2.5cm%
295   \begin{center}
296     {\rmfamily\Large\uppercase\expandafter{\@title}}
297   \end{center}
298   \vfill
299   \begin{center}
300     \textsc{A thesis submitted for the degree of \}
301     \expandafter{\@thesistype}}
302   \end{center}
303   \vfill
304   \begin{center}
305     {\rmfamily\normalsize By\}
306     \@author}\}
307   \end{center}
308   \vfill
309   \begin{center} % Department changed to School July 1995
310     {\rmfamily\normalsize School of \expandafter{\@dept},\}
311     University College, \}
312     The University of New South Wales, \}
313     Australian Defence Force Academy.\} \}
314     \vskip1cm
315     {\rmfamily\normalsize \@submitdate}\}
316   \end{center}
317   \vskip1cm
318   \newpage}

```

```

319 \ifAthenours\renewcommand{\title}{%
320     \pagestyle{empty}%
321     \null\vskip2.5cm%
322     \begin{center}
323         {\rmfamily\Large\uppercase\expandafter{\@title}}
324     \end{center}
325     \vfill
326     \begin{center}
327         {\rmfamily\normalsize \@author}\\
328     \end{center}
329     \vskip1cm
330     \begin{center} % Department changed to School July 1995
331         {\rmfamily\normalsize School of \expandafter{\@dept},\@
332         University College, \\
333         The University of New South Wales, \\
334         Australian Defence Force Academy.} \\
335         \vskip1cm
336         {\rmfamily\normalsize \@submitdate}\\
337     \end{center}
338     \vfill
339     \begin{center}
340         \small\textsc{Submitted in partial fulfillment of the
341         requirements of the degree of \\
342         Bachelor of \expandafter{\@degreetype} with Honours}
343     \end{center}
344     \newpage}\fi
345
346 \newcommand{\copyrightpage}{%
347     \null\vfill
348     \begin{center}
349         {\Large\copyright\ Copyright \@copyrightyear\\
350         by\\
351         \@author}\\
352     \end{center}
353     \vfill\newpage}
354
355 \newcommand{\declaration}{%
356 \newpage
357 \null\vfill
358 \begin{center}
359 \begin{minipage}{11cm}
360 \setlength{\parindent}{0\p@}
361 \setlength{\parskip}{2ex \@plus0.5ex}
362 {\rmfamily\normalsize
363 I hereby declare that this submission is my own work and to the best
364 of my knowledge it contains no material previously published or
365 written by another person, nor material which to a substantial extent
366 has been accepted for the award of any other degree or diploma at UNSW
367 or any other educational institution, except where due acknowledgement

```

369 is made in the thesis. Any contribution made to the research by
370 colleagues, with whom I have worked at UNSW or elsewhere, during my
371 candidature, is fully acknowledged.

372

373 I also declare that the intellectual content of this thesis is the
374 product of my own work, except to the extent that assistance from
375 others in the project's design and conception or in style,
376 presentation and linguistic expression is acknowledged.)

377 \par

378 \vspace{2.5cm}

379 \mbox{} \hfill \Authornamely

380 \end{minipage}

381 \end{center}

382 \vfill \null

383 \addcontentsline{toc}{chapter}{Declaration}

Add definitions for \beforepreface, \prefacesection and \afterpreface
to allow page numbering and headerstyle to be changed.

384 \newcommand{\beforepreface}{%

385 \pagestyle{empty}

386 \titlep

387 \if@twoside \cleardoublepage \fi

388 \pagenumbering{roman}

389 \if@Tdr@ft \pagestyle{draft} \else \pagestyle{plain} \fi

390 \setcounter{page}\@ne% Reset the page number to 1, i.e. titlepage is page 0

391 \ifcopyright \copyrightpage \fi

392 }

393

394 \newcommand{\prefacesection}[1]{%

395 \chapter*{#1}

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

397

398 \newcommand{\afterpreface}{%

399 \if@twoside

400 \cleardoublepage

401 \else \newpage

402 \fi

403 \tableofcontents

404 \if@twoside

405 \cleardoublepage

406 \else \newpage

407 \fi

408 \iftablespage

409 {\addvspace{10\p@}

410 \let \saveaddvspace = \addvspace

411 \def \addvspace##1{}

412 \listoftables

413 \let \addvspace = \saveaddvspace}

414 \if@twoside

415 \cleardoublepage

```

416             \else\newpage
417             \fi
418     \fi
419     \iffigurespage
420         {\addvspace{10\p@}
421         \let\saveaddvspace=\addvspace
422         \def\addvspace##1{
423         \listoffigures
424         \let\addvspace=\saveaddvspace}
425     \if@twoside
426         \cleardoublepage
427     \else\newpage
428     \fi
429 \fi
430 \pagenumbering{arabic}
431 \ifA@draft\pagestyle{draft}\else\pagestyle{plain}\fi}

```

Create a brand new page style to include the date in the page header.

```

432 \newcommand{\ps@draft}{%\let\mkboth@gobbletwo
433     \renewcommand{\@oddfoot}{\@empty}%
434     \renewcommand{\@oddhead}{\rmfamily\slshape\today\hfil\thepage}%
435     \renewcommand{\@evenhead}{\rmfamily\slshape\thepage\hfil\today}%
436     \renewcommand{\@evenfoot}{\@oddfoot}}

```

Start with `\pagestyle{plain}` in case front matter isn't processed.

```
437 \pagestyle{plain}
```

Modify Table of contents entry for chapter to normal font not bold. Second use word Chapter/Appendix before number. Use `\appendixname` rather than `\@chapapp` to set width for this element as it is longer!

```

438 \newlength{\@chapwidth}%
439 \renewcommand*{\l@chapter}[2]{%
440     \ifnum \c@tocdepth >\m@ne
441         \addpenalty{-\@highpenalty}%
442         \vskip 1.0em \@plus\p@
443         \settowidth{\@chapwidth}{\appendixname}% not \@chapapp
444         \addtolength{\@chapwidth}{\@pnumwidth}
445         \setlength\@tempdima{\@chapwidth}%
446         \begingroup
447             \parindent \z@ \rightskip \@pnumwidth
448             \parfillskip -\@pnumwidth
449             \leavevmode \normalfont
450             \advance\leftskip\@tempdima
451             \hskip -\leftskip
452             #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
453             \penalty\@highpenalty
454         \endgroup
455     \fi}
456 \def\@chapter[#1]#2{%
457     \ifnum \c@secnumdepth >\m@ne

```

```

458     \refstepcounter{chapter}%
459     \typeout{\@chapapp\space\thechapter.}%
460     \addcontentsline{toc}{chapter}%
461     {\protect\numberline{\expandafter\@chapapp\space\thechapter}#1}%
462 \else
463     \addcontentsline{toc}{chapter}{#1}%
464 \fi
465 \chaptermark{#1}%
466 \addtocontents{lof}{\protect\addvspace{10\p@}}%
467 \addtocontents{lot}{\protect\addvspace{10\p@}}%
468 \if@twocolumn
469 \@topnewpage[\@makechapterhead{#2}]%
470 \else
471 \@makechapterhead{#2}%
472 \@afterheading
473 \fi}
474 \end{package}

```