

# CHAPTER 1

## THESIS/DISSERTATION ORGANIZATION

To setup your Thesis/Dissertation, take advantage of the following  $\text{\LaTeX}$  package `subfiles` which allows you to break apart your document into various sections and compile them individually for editing purposes:

```
</> Script 1: ... $\text{\LaTeX}$  script used to setup the document. </>
1 % The class file specifying the document structure
2 \documentclass{./LaTeX/tex/latex/MastersDoctoralThesis}
3
4 \input{StudentInfo.tex}
5
6 \input{./LaTeX/tex/latex/codeHighlighting.tex} % Code highlighting
7
8 %-----%
9 %                               References
10 %-----%
11
12 \addbibresource{\subfix{Chapter1/bib_files/bibliography.bib}}
13 \addbibresource{\subfix{Chapter2/bib_files/bibliography.bib}}
14 \addbibresource{\subfix{Chapter3/bib_files/bibliography.bib}}
15 \addbibresource{\subfix{Chapter4/bib_files/bibliography.bib}}
16 \addbibresource{\subfix{Chapter5/bib_files/bibliography.bib}}
17
18 \raggedbottom
19 \begin{document}
20
21     \frontMatter
22
23     %-----%
24     %                               Thesis Title, Copyright, Approval
25     %-----%
26
27     \begin{center}
28         \thesisTitle
29         \copyrightpage
30         \dissertationapproval
31     \end{center}
32
33     %-----%
34     %                               Abstract
35     %-----%
36
37     \abstractPage
```

```

38
39 %-----%
40 %               Dedication
41 %-----%
42
43 \dedicationPage
44
45 %-----%
46 %       Frontispiece image (Image of importance relevance)
47 %-----%
48
49 \frontispiecePage
50
51 %-----%
52 %       Epigraph page (Inspirational quote)
53 %-----%
54
55 \epigraphPage
56
57 %-----%
58 %       LIST OF CONTENTS/FIGURES/TABLES PAGES
59 %-----%
60
61 \tableOfContents
62
63 %-----%
64 %       Notation and Symbols
65 %-----%
66
67 \NotationSymbolsPage
68
69 %-----%
70 %       Acknowledge
71 %-----%
72
73 \AcknowledgementPage
74
75 %-----%
76 %       Thesis/Dissertation Content (Chapters etc.)
77 %-----%
78
79 \mainMatter
80
81 \subfile{\subfix{Chapter1/Chapter1}}
82 \subfile{\subfix{Chapter2/Chapter2}}
83 \subfile{\subfix{Chapter3/Chapter3}}
84 \subfile{\subfix{Chapter4/Chapter4}}
85 \subfile{\subfix{Chapter5/Chapter5}}
86
87 %-----%
88 %       List of items to work on (Editing phase)
89 %-----%
90
91 %\listoftodos
92
93 %-----%
94 %       APPENDICES
95 %-----%

```

```

96
97 \appendix % Que to tell LaTeX that the following "chapters" are Appendices
98
99 % Include the appendices of the thesis as separate files from the
100 % Appendices folder
101 % Uncomment the lines as you write the Appendices
102
103 \subfile{\subfix{AppendixA/AppendixA}}
104 \subfile{\subfix{AppendixB/AppendixB}}
105 \subfile{\subfix{AppendixC/AppendixC}}
106
107 %-----%
108 % BIBLIOGRAPHY
109 %-----%
110
111 \finalBibliography
112
113 \end{document}

```

## 1.1 Individual ?? Setup

</>
Script 2: ...*LaTeX* script used to import a chapter.
</>

```

1 %%% -*-LaTeX-*-
2 \documentclass[../Dissertation]{subfiles}
3
4 \doublespacing
5 \graphicspath{{Chapter1/Media/}{Media/}} % Graphics path for images
6
7 \begin{document}
8
9 % Needs to be capitalized (University Rules) and title width is no longer
10 % than 4.5 inches. Specify custom line breaks using "\protect\\ " for both
11 % the Chapter title page and the table of contents page
12 \chapter{\uppercase{Introduction}}\label{Chp1}
13
14 % If there is no text between the chapter and the first section, then we
15 % need to reduce the spacing with a negative skip. Otherwise, comment out
16 % the following line
17 \vspace{-2ex}
18
19 \subfile{\subfix{Chapter1/0_Overview}}
20 \subfile{\subfix{Chapter1/1_Background}}
21 \subfile{\subfix{Chapter1/2_Aims}}
22 \subfile{\subfix{Chapter1/3_Impact}}
23
24 % bibliography
25 \printbibliography[segment=\therefsegment,heading=references]
26
27 \end{document}

```

## 1.2 Individual ?? Setup

```
</> Script 3: ... $\LaTeX$  script used to import a chapter. </>
1 %%% -*-LaTeX-*-
2 \documentclass[../Dissertation]{subfiles}
3
4 \doublespacing
5 %\graphicspath{{Chapter2/Media/}{Media/}} % Graphics path for images
6
7 \begin{document}
8
9     % Needs to be capitalized (University Rules) and title width is no longer
10    % than 4.5 inches. Specify custom line breaks using "\protect||" for both
11    % the Chapter title page and the table of contents page
12    \chapter[\uppercase{Multiline title}]{\uppercase{Multiline
13    \protect|| title}}\label{Chapter2}
14
15    \lipsum[1] % random text after the chapter title.
16
17    % If there is no text between the chapter and the first section, then we
18    % need to reduce the spacing with a negative skip. Otherwise, comment out
19    % the following line
20    % \vspace{-2ex}
21
22    \subfile{\subfix{Chapter2/0_Abstract}}
23    \subfile{\subfix{Chapter2/1_Introduction}}
24    \subfile{\subfix{Chapter2/2_Methods}}
25    \subfile{\subfix{Chapter2/3_Results}}
26    \subfile{\subfix{Chapter2/4_Discussion}}
27    \subfile{\subfix{Chapter2/5_Conclusion}}
28    \subfile{\subfix{Chapter2/6_Acknowledgment}}
29
30    % bibliography
31    \printbibliography[segment=\therefsegment,heading=references]
32
33 \end{document}
```

## 1.3 Individual ?? Setup

```
</> Script 4: ... $\LaTeX$  script used to import a chapter. </>
1 %%% -*-LaTeX-*-
2 \documentclass[../Dissertation]{subfiles}
3
4 \doublespacing
5 %\graphicspath{{Chapter3/Media/}{Media/}} % Graphics path for images
6
7 \begin{document}
8
9     % Needs to be capitalized (University Rules) and title width is no longer
10    % than 4.5 inches. Specify custom line breaks using "\protect||" for both
11    % the Chapter title page and the table of contents page
12    \chapter[\uppercase{Previously published article}]{\uppercase{Previously
    ↪ published article}}\label{Chapter3}
```

```

13
14 % If there is no text between the chapter and the first section, then we
15 % need to reduce the spacing with a negative skip. Otherwise, comment out
16 % the following line
17 %\vspace{-0.5\UofUDoubleSpace}
18
19 Research published: C. J. Creveling, J. Colter, and B. Coats, ``Changes in
20 Vitreoretinal Adhesion With Age and Region in Human and Sheep Eyes," Front.
21 Bioeng. Biotechnol., vol. 6, no. 153, pp. 1-11, Oct. 2018.
22
23 % \subfile{\subfix{Chapter3/0_Abstract}}
24 % \subfile{\subfix{Chapter3/1_Introduction}}
25 % \subfile{\subfix{Chapter3/2_Methods}}
26 % \subfile{\subfix{Chapter3/3_Results}}
27 % \subfile{\subfix{Chapter3/4_Discussion}}
28 % \subfile{\subfix{Chapter3/5_Conclusion}}
29 % \subfile{\subfix{Chapter3/6_Acknowledgment}}
30
31 \subfile{\subfix{Chapter3/PDFdocument}}
32
33 \section{PDF Import}
34 Using the {\LaTeX} package
35 \href{https://ctan.org/pkg/pdfpages?lang=en}{\texttt{pdfpages}} you can
36 import PDFs into your PDF. An example of this is used to import a
37 previously published journal article in \cref{code:PDF}. There are
38 function keywords that allow you to add sections to the table of
39 contents, list of figures, and the list of tables.
40
41 \mintinline{LaTeX}{addtotoc={<page
42   → number>,<section>,<level>,<heading>,<label>}}
43
44 \mintinline{LaTeX}{addtolist={<page number>,<type>,<heading>,<label>}}
45
46 \codeFromFile{LaTeX}
47 {./Chapter3/PDFdocument.tex}
48 {\ldots {\LaTeX} to import a PDF and add contents to the Table of
49 Contents, List of Figures, and List of Tables.}
50 {PDF}
51 {\footnotesize}
52 {\latexcodebg}
53 {default}
54
55 % bibliography
56 \printbibliography[segment=\therefsegment,heading=references]
57 \end{document}

```