

WASHINGTON UNIVERSITY IN ST. LOUIS

School of Engineering and Applied Science
Department of Computer Science and Engineering

Thesis Examination Committee:

Katherine Doe, Chair
Michael Allen
Robert Edward Thomas

A Mock Thesis on the Proper Formatting of Theses and Dissertations for
Engineering-Based Grad Students

by
Ima Gooden-Reddi

A thesis presented to the
Graduate School of Arts and Sciences
of Washington University in
partial fulfillment of the
requirements for the degree
of Master of Science

May 2012
Saint Louis, Missouri

Important - How to use this document:

This sample document outlines guidelines for the proper formatting of theses and dissertations for Master's and D.Sc. degree seeking students within the School of Engineering at Washington University. (Ph.D. students can also make use of this document; see special note below.) This document is formatted using the same guidelines which it describes. Consequently, by making an extra copy of this document you can use it as a template into which you can insert your own thesis or dissertation textual matter, replacing the original text with your own while still retaining the general formatting contained within. This document/template can be downloaded (as either a Microsoft WORD document OR as a set of L^AT_EX files) from the Engineering Student Services' website and is located with other engineering graduate forms and guides. Once completed, hard copies of your document will be submitted for professional binding, plus you will also need to submit your copy electronically, as per procedures documented on the Engineering website's information for graduate students. Be certain to use your own full name wherever appropriate. After removing these comments, be sure to vertically center the information on the title page to assure an equal amount of "white space" exists both above and below your general block of title page information; however, be sure to leave the vertical spacing between each area of text on the title page exactly as shown above. Your examination committee will likely contain only three members if you are a Master's student, as shown in the sample above. However, D.Sc. committees will typically have five members, and Ph.D. committees will have six. Make sure you use the month and year your degree is officially to be earned on the title page, abstract page, and on any vita page included. If this is for your doctoral degree (i.e., either D.Sc. or Ph.D.), be sure to change all occurrences of the word "thesis" to display as "dissertation", and change "MASTER OF SCIENCE" to "DOCTOR OF SCIENCE" or "DOCTOR OF PHILOSOPHY", whichever applies.

IMPORTANT: If you are a Ph.D. student, you must also change the line above (near the mid-section of the title page) to "A dissertation presented to the Graduate School of Arts and Sciences" (but do NOT change the reference to the "School of Engineering" which is at the very top of the title page, as that must be left exactly as shown.

Note for Ph.D. Students:

The formatting contained within this sample document can serve well in emulating the basic formatting needed for the Ph.D. dissertation. Be sure to read "Important reminders" in paragraph above.

However, please remember that all Ph.D. students are ultimately responsible for meeting the Graduate School of Arts & Sciences' formatting guidelines. The GSAS dissertation guidelines are published on the Graduate School website located with other documentation for GSAS policies and guides.

© 2012, Ima Gooden-Reddi

Important Notes Regarding Copyright Option:

Technically, a thesis or dissertation is protected to some degree by copyright laws with or without a student having to register his or her claim to copyright. However, including a copyright page and applying for registration of one's claim to copyright provide extra measures of legal protection from potential copyright infringement. There is a fee connected with explicitly registering to copyright one's work; because of this, many students do not choose to register to copyright their work. Students should check with their advisor(s) and/or seek legal advice to gather further information helpful to making a decision with regards to registering their claim to copyright. If you are not going to register to copyright your work, then you can choose to remove this page from your document. However, if you do choose to explicitly copyright your work, then leave this page in, change the name to your name, change the year to the appropriate year in which your degree will be earned, and remove these notes of informational text. If a student wishes to officially “register” this claim to copyright, then Masters students will need to pursue that effort on their own and can find appropriate options by searching the web. Doctoral students can complete an authorization to apply for registration (i.e., of their claim to copyright the dissertation) by indicating this interest in the appropriate area on the online form when submitting the final electronic copy as per procedures documented on the Engineering website's information for graduate students.

Important Notes Regarding Page Numbering and Margins:

If you decide to include the copyright page in your final document, do not count the page among your counted pages, and do not display any page number on the page. Every sheet of paper in the manuscript should be numbered except for two: the title page and this optional copyright page. Specifically, the front textual information (which comes before your main thesis/dissertation body of text) is numbered with Roman numerals, and your main body of text begins with Arabic numbers. Since the title page is counted but not numbered, roman numeral “ii” is always the first number used and appears on the page AFTER the title page (AND AFTER the copyright page, IF included) — as shown in this sample template document. Page numerals should always display centered, just above the 1 bottom margin. The left margin should be 1.5 inches, with a 1 inch margin at top, bottom, and right. The left margin is extra-wide in order to accommodate the binding process. When typing the manuscript, stay well within these margin guides. Lastly, remember to update your table of contents such that the page numerals referenced there will match the page numbers on the bottom of the pages to which they make reference in your document. This is necessary to do manually because, unfortunately, the page numbering within this template's table of contents is not automatically linked to the pages of the body of text. This is further documented, along with some work arounds, in the appendix to this guide called Special Notes for MS WORD Users. L^AT_EX users may have to invent other solutions with regards to synchronizing table of contents page references with actual document page numbers. This guide merely provides a helpful starting point.

REMINDER: When you remove these comments, be sure to leave the copyright information centered both vertically and horizontally on the page (if you decide to explicitly copyright your work).

Table of Contents

List of Figures	iv
List of Tables	v
Acknowledgments	vi
Abstract	viii
Preface	x
Chapter 1: Thesis Format	1
1.1 Margins	1
1.2 Page Numbers	1
1.3 Body Text	2
1.4 Titles and Headings	2
1.4.1 Chapter Titles	2
1.4.2 Section Headings	3
1.4.3 Subsection Headings	3
1.4.4 Headings for Divisions Smaller than Subsections	3
1.5 Figures and Tables	4
1.6 Lists	4
1.7 Footnotes and Endnotes	4
1.8 Quotations	5
1.9 Equations	5
Chapter 2: Parts of the Thesis	7
2.1 Front Matter	7
2.1.1 Title Page	7
2.1.2 Copyright Page	8
2.1.3 Abstract Page	8
2.1.4 Acknowledgments	9
2.1.5 Dedication	9
2.1.6 Table of Contents	9
2.1.7 List of Tables	10

2.1.8	List of Figures	10
2.1.9	List of Abbreviations	10
2.1.10	Glossary or Nomenclature	10
2.1.11	Preface	11
2.2	Text	11
2.3	Back Matter	11
2.3.1	Appendices	11
2.3.2	References	12
2.3.3	Vita	12
2.3.4	Short Title Page	12
Chapter 3:	Citing References	13
3.1	Parenthetical References	13
3.1.1	Author-Date System	13
3.1.2	Numbered References	14
3.2	Reference List	14
References	15
Appendix A	The English Language and Other Confusing Things	16
Appendix B	Procedures and Deadlines	17
Appendix C	Thesis Format Checklist	20
Appendix D	Special Notes for L^AT_EX Users, Including a Demonstration of Wrapping Appendix Titles	21
D.1	Front Matter	21
D.2	Table of Contents and Bibliography	22
D.3	Widows and Page Breaks	22
Vita	24

List of Figures

Figure 1.1: Just a Figure	3
-------------------------------------	---

List of Tables

Table 1.1:	Thesis Formatting Options	6
Table 2.1	Required and Optional Thesis Components (NOTE: If you have a multi-lined table label/title, then the 2nd and all additional lines should align with the first line, just like this one; plus, be sure that no words display to the far right hand side where the page numbers for your tables display, just as shown in this example.)	8

Acknowledgments

An acknowledgments page should be included in your final thesis or dissertation. In the final copy, it should be placed immediately before the table of contents. If you wish to include a special dedication, then you may use the dedication to close the acknowledgments page or place it on the page that immediately follows the acknowledgments page.

It is appropriate to acknowledge sources of academic and financial support; some fellowships and grants require acknowledgment. Consequently, I would like to thank the Dean for having the foresight and vision necessary to understand the importance of funding the development of this sample thesis/dissertation template.

A special thanks goes to the many graduate students and distinguished faculty within my department who have reviewed this thesis and helped support the related research.

Ima Gooden-Reddi

Washington University in Saint Louis
May 2012

Reminders of what needs to be updated: After removing these comments, use the above format to help input your acknowledgments page. A special dedication can be placed as the final paragraph, as shown above; alternatively, you may include a special dedication on the page that follows, as also shown in this sample template.

Dedicated to my parents.

Note: You may include a special dedication as shown here. If you include this page, be sure to keep it brief and center it on the page both horizontally and vertically. Alternatively, you may remove this page altogether, and a special dedication can be placed as the final paragraph to your acknowledgments page (as shown in this document on the preceding page).

ABSTRACT OF THE THESIS

A Mock Thesis on the Proper Formatting of Theses and Dissertations for
Engineering-Based Grad Students

by

Ima Gooden-Reddi

Master of Science in Computer Science
Washington University in St. Louis, 2012
Professor Katherine Doe

Reminders of what needs to be updated: After removing these comments, begin typing the body of your abstract here, double-spaced. The point-size of the body of the abstract can be set to 12 point (which is the text size of this sample comment-paragraph) or it can be reduced to 10 point if you prefer. Regardless of which specific point size you select, the abstract must remain double-spaced and it should not be bolded. If this is for your doctoral degree, be sure to change all occurrences of the word “thesis” to display as “dissertation”, and change “Master of Science” to “Doctor of Science” or “Doctor of Philosophy”, whichever applies. In the abstract heading above, make sure you use the year your degree is officially to be earned. Be sure to use your full name and your research advisor’s full name wherever appropriate, and be certain to use the correct title of your degree whenever referencing it. The title of your degree will not always be the same as the title of your department or program, so please check with your departmental administrative assistant and advisor(s) to be sure you are using the correct degree title. Questions you may have about preparing your theses or dissertations are always welcomed at the Office of Engineering Student Services.

Length of Abstract: There is technically no word limit on your abstract. Your abstract allows you to describe your research in a section that can be accessible to search engines, and therefore a word limitation would constrain potential exposure of your work. However, from the electronic submission of theses or dissertations, print indices may be published that

will include references to abstracts. These print indices require word limits of 350 words for doctoral dissertations and 150 words for master's theses. Additionally, these indices typically allow only text to be included in the abstract. In the editorial process for these print publications, the service provider will simply truncate your abstract if it exceeds these word limits and remove any non-text content. You may wish to limit the length of your abstract if this concerns you. The abstract as you submit it will NOT be altered in your published manuscript.

Note for Ph.D. Students: The formatting contained within this sample document can serve well in emulating the basic formatting needed for the Ph.D. dissertation. However, please remember that all Ph.D. students are ultimately responsible for meeting the Graduate School of Arts & Sciences' formatting guidelines. The GSAS thesis and dissertation guidelines are published on the Graduate School web site located with other documentation for GSAS policies and guides. Be sure to read all of the above notes/reminders on what needs to be updated as shown in this template document's title, copyright, and abstract pages. Ph.D. students will submit final dissertations and all materials to the Office of Graduate School of Arts and Sciences, and any questions about their dissertations should also be directed to that office.

Preface

This guide contains the School of Engineering's rules for formatting theses and dissertations.¹ Departments, advisors, and committees may impose additional rules. In the past, students were required to study a similar (but much longer) set of rules and apply them to their theses. The Association of Graduate Engineering Students (i.e., AGES) has helped to prepare templates and style files that simplify thesis preparation. These files have been set up to produce acceptably formatted theses and dissertations using several popular word processing and text formatting programs. There should be one available in Microsoft WORD and another in L^AT_EX. Students can retrieve these files and their accompanying instructions from the Engineering Student Services' main website. Check with Engineering Student Services (Lopata Hall, Room 303) if you have any questions. Students who create their own templates or style files are invited to submit these files for future use by others.

This guide you are now reading can be downloaded (in either MS WORD formatted version or a L^AT_EX version) and can be utilized as a template for formatting your own theses. In short, the margin settings, pagination, table of contents logic, etc. are already established in the downloadable versions. You can simply replace the text within the template with your own text, thereby saving you much setup time.

NOTE: This preface page is optional. A preface page is usually used to explain further details surrounding the background and motivation for the work. You can remove it completely, but then be sure the reference to this page is also removed from the Table of Contents. The majority of students do not include a preface page.

¹Throughout this guide, the word thesis refers to both theses and dissertations.

Chapter 1

Thesis Format

The following guidelines offer you some degree of flexibility in formatting your thesis. Options are summarized in Table 1.1. Whatever options you choose to use, you must use them consistently throughout the document.

1.1 Margins

Your printed output must reflect a physically measurable left margin of at least 1.5 inches, with top, bottom, and right margins measurable at 1 inch. Some systems' settings produce varying results when printing to different printers, so be sure to measure your output. Remember, nothing (not even page numbers) should print in the margins.

1.2 Page Numbers

Number all pages in your thesis except the title page and the optional copyright page which might follow the title page. Number the “front matter” pages (i.e., the pages that come prior to the main body of text, prior to chapter 1) with lowercase Roman numerals, centered immediately above the bottom margin, and starting with the Roman numeral “ii”. Number the pages starting with the first page of the first chapter with Arabic numerals, also centered immediately above the bottom margin, and starting with numeral “1”.

1.3 Body Text

Use a 10, 11, or 12-point Garamond, Times Roman or Times New Roman font for your thesis text. (The MicroSoft WORD based “template” uses Garamond throughout, and is recommended whenever possible. The L^AT_EX version uses a high quality variation of the Times Roman font. Whichever is used, be consistent throughout your document..) Use 1.5 or double line spacing for most body text. Block quotes should be single spaced. Use either left justification with a ragged right edge, or full justification. Paragraphs may be set in a block style, with no indentation, or they may be indented up to 0.5 inch. Skip a line between paragraphs.

1.4 Titles and Headings

Titles and headings may be left-justified or centered. Capitalize the first letter of the first word and the first letter of each subsequent major word in a title or heading. Do not capitalize articles, prepositions, and conjunctions that are not the first word of a title or heading. For example, do not capitalize such words as the following: a, an, the, for, to, on, or. Formatting specifications for particular types of headings and titles are described below. You may use a plain or bold version of the body text font for all titles and headings.

1.4.1 Chapter Titles

Begin each chapter on a new page. You may start the chapter title below the top margin (1.5 inches from the top edge of the page), or you may leave some space and start the chapter title up to 3 inches from the top edge of the page. You may use a font size of up to 36 points for the chapter title. There are 2 options for formatting the chapter title:

- Type the word “Chapter” followed by the chapter number, skip a line, and type the chapter title on the following line; or
- Type the chapter number followed by the chapter title, all on the same line.

1.4.2 Section Headings

You may use a font size of up to 24 points for the section headings. Type the chapter number and section number before the section title.

1.4.3 Subsection Headings

You may use a font size of up to 18 points for subsection headings. Type the chapter number, section number, and subsection number before the subsection title.

1.4.4 Headings for Divisions Smaller than Subsections

Use unnumbered headings for divisions smaller than subsections. You may use a font size of up to 14 points. Headings may be typed above or on the same line as the sections they label. You may use both styles within your thesis.

Run-in Headings To the left is an example of a run-in heading. Notice that it is typed on the same line as the section that it labels. It may be used for divisions smaller than subsections.



Figure 1.1: Just a Figure

1.5 Figures and Tables

Figures and tables must be referenced in the text by number. They must be numbered consecutively throughout each chapter, with the chapter number preceding each figure or table number. For example, the third figure in chapter 1 would be labeled Figure 1.3. You may either:

- Maintain one numbering sequence for figures and another for tables, and label figures with the word “Figure” and tables with the word “Table”; or
- Label both figures and tables with the word “Figure” and maintain one numbering sequence.

Place figures and tables as close to their references in the text as possible. Place a figure number and title below each figure (or table labeled as a figure). Place a table number and title above each table labeled as a table. In figures and tables, avoid using color and avoid text smaller than 10 points. Do not let figures or tables spill out into the margins. Figure 1.1 is an example figure.

1.6 Lists

You may include lettered, numbered, or bulleted lists in your thesis. Use consistent punctuation and capitalization throughout each list. Lists may be indented.

1.7 Footnotes and Endnotes

You may use footnotes or endnotes for brief notes that are not appropriate for the body of the text. Use either footnotes or endnotes consistently throughout your thesis. Position footnotes in 10 point type just above the bottom margin and page number. Use a short horizontal rule to separate footnotes from the text. Position endnotes at the end of each chapter. Type endnotes using the same font size and justification as the body of the text.

Single space within each footnote or endnote; double-space between footnotes or endnotes. Footnotes and endnotes should be consecutively numbered.

1.8 Quotations

You must use quotation marks and parenthetical references to indicate words that are not your own. Put quotation marks around short quotes. Put long quotes in separate single-spaced paragraphs, indented up to 1 inch from the left margin (these are called block quotations). Kate Turabian, editor of official publications and dissertation secretary at the University of Chicago for over 25 years, distinguishes short and long quotes as follows:

Short, direct prose quotations should be incorporated into the text of the paper and enclosed in double quotation marks: “One small step for man; one giant leap for mankind.” But in general a prose quotation of two or more sentences which at the same time runs to four or more lines of text in a paper should be set off from the text and indented in its entirety... [8]

1.9 Equations

Equations may be set in-line with the text or numbered and placed in separate paragraphs. Use the same numbering style for equations as you would for figures and tables. Here is an example of an equation set in-line with a paragraph: $E = mc^2$. Here is an example equation placed in a separate paragraph:

$$E = mc^2 \tag{1.1}$$

Equation numbering and formatting should follow the usual convention of your discipline and be acceptable to your thesis committee.

Table 1.1: Thesis Formatting Options

Thesis Element	Formatting Options
title page font	12-point or 14-point Garamond, Times or Roman
table of contents chapter title font	bold or plain
first-level table of contents indentation	0 to 0.5 inch
second-level table of contents indentation	0 to 1.0 inch
body text font	10, 11, or 12-point Garamond, Times or Roman
body text line spacing	1.5 or 2
body text justification	left or full
paragraph indentation	0 to 0.5 inch
chapter title position	1.5 to 3 inches below top edge of page
chapter title style	heading preceded by the word “Chapter” and the chapter number or, heading preceded only by the chapter number
chapter title	10-pt to 36-pt font, centered or left-justified, plain or bold
section heading	10-pt to 24-pt font, centered or left-justified, plain or bold
subsection heading	10-pt to 18-pt font, centered or left-justified, plain or bold
unnumbered headings	10-pt to 14-pt font, centered or left-justified, plain or bold
table labels	label tables as “Table” or “Figure”
Parenthetical reference style	author-date system, numbered, or another style acceptable to your committee
Reference list style	any style acceptable to your committee

Chapter 2

Parts of the Thesis

This chapter describes the components of a thesis. You need not include all components described here, but you must follow the prescribed order for the components you do include. Table 2.1 lists the required and optional components in the order that they should appear. Your thesis should include three main parts: the front matter, the text, and the back matter. Each of these parts is described below.

2.1 Front Matter

The front matter includes all material that appears before the beginning of the main text. Number all “front matter” pages (except the title page and the optional copyright page) with lower-case roman numerals, centered just above the bottom margin. Each of the following sections should begin on a new page.

2.1.1 Title Page

Format the title page so that it is centered vertically and horizontally on the page with equal amounts of white space from top and bottom margins. Include a 1.5-inch left margin and a 1-inch right margin. Use a 12- or 14-point regular Garamond, Times or Roman font on this page. If you are writing a dissertation, substitute the word “dissertation” wherever the word “thesis” appears in this document. The date on the title page should reflect the month and year the degree will be awarded and should be one of the following months: December, May, or August. Do not number the title page.

Table 2.1: Required and Optional Thesis Components

Major Part	Thesis Component	Required	Optional
Front Matter	Title Page	•	
	Abstract Page	•	
	Copyright Page		•
	Dedication		•
	Table of Contents	•	
	List of Tables	(Rqrd if used)	
	List of Figures	(Rqrd if used)	
	List of Abbreviations		•
	Glossary of Nomenclature		•
	Acknowledgments		•
	Preface		•
Text	Chapters		•
Back Matter	Appendices		•
	References	•	
	Vita	•	
	Short Title Page	•	

2.1.2 Copyright Page

Include a copyright page if you plan to copyright your thesis. If used, the copyright page must be unnumbered, immediately following the title page. It should include three lines, centered on the page with regular body text font and spacing. The 1st line should be “copyright by”, the 2nd line should contain your full name. The 3rd line should contain the year the degree is to be awarded. Do not number the copyright page. If you are a Master’s candidate and would like to register your claim to copyright your thesis, you must make all arrangements independently. Doctoral students will complete a publishing agreement form which will give them a copyright registration option.

2.1.3 Abstract Page

Please see important note regarding length of abstract found near the front of this guide within the sample abstract. Format the abstract page precisely as done in this document. The abstract page always begins the document’s page numbering at “ii”.

2.1.4 Acknowledgments

An acknowledgments section should be included.. Use it to thank those who supported your research through contributions of time, money, or other resources. Type the word “Acknowledgments” in chapter title style at the top of page. If the acknowledgments fill more than one page, put the heading only on the first page. Number the page with a Roman numeral, centered at bottom, sequentially following the abstract page(s) Roman numeral(s).

2.1.5 Dedication

The dedication page is optional. If you decide to include a separate dedication page, make it short and center it on the page. If included, you should number it, placing the next logical/sequential Roman numeral at bottom of page, centered, as shown in this sample document.

2.1.6 Table of Contents

The table of contents must include the page numbers of all chapters and sections of your thesis. In addition, it may include the page numbers of all subsections. It must also include the page numbers of all front and back matter elements, unless otherwise specified. Chapter titles should appear flush left, section headings may be indented up to 0.5 inch, and subsection headings may be indented up to 1 inch. Chapter titles may be typed in plain or bold font. All titles and headings must be followed by a dot leader and a page number. The word “Contents” must appear in chapter title style at the top of the page. Be sure to align multi-lined chapter titles in the table of contents. For example, when a table of contents’ chapter or section title extends to a second line, be sure that the 1st character of the 2nd line aligns immediately under the 1st character of the title/chapter/section name on the line above it (i.e., as done in this sample document’s table of contents, and as specifically illustrated in the “list of tables” page for table 2.1). Make certain, too, that these long titles also align nicely within the body of text, where multi-lined chapter titles or section titles should still break at a logical point and align in a manner allowing the titles to be read clearly without confusion. Sometimes, for long chapter or section titles, this will mean forcing a line break

at a logical point. This cannot be automated, but relies on your own good judgment. A good example of a multi-lined title can be found at the top of Appendix A; notice how the two lines are deliberately divided helping each phrase to be read easily and fluidly.

2.1.7 List of Tables

Include a list of tables only if your thesis actually contains tables. Format the list of tables the same way the table of contents is formatted, but put the word “List of Tables” in the heading.

2.1.8 List of Figures

Include a list of figures only if your thesis actually contains figures. Format the list of figures the same way the table of contents is formatted, but put the word “List of Figures” in the heading.

2.1.9 List of Abbreviations

Include a list of abbreviations only if you use abbreviations that are not common in your field. Arrange the list alphabetically. Type the word “List of Abbreviations” in chapter title style at the top of the page.

2.1.10 Glossary or Nomenclature

Include a glossary or nomenclature section only if your thesis contains technical words that are not commonly used by people in your field. Type the word “Glossary” or “Nomenclature” in chapter title style at the top of the page. The glossary or nomenclature section should consist of an alphabetized list of words and their definitions.

2.1.11 Preface

A preface is optional. If you include a preface, use it to explain the motivation behind your work. Format the preface the same way the acknowledgments section is formatted, but use the word “Preface” in the heading.

2.2 Text

The text part of the thesis should be divided into numbered chapters, sections, and subsections. Use Arabic numerals for this numbering. Divisions smaller than subsections may be used, but they should not be labeled with numbers. Place Arabic page numbers throughout the body of text centered just above the bottom margin.

2.3 Back Matter

Throughout the back matter, use the same Arabic page number formatting as used in the body of text section.

2.3.1 Appendices

Appendices may be used for including reference material that is too lengthy or inappropriate for the thesis text. If one appendix is included, an appendix title is optional. If more than one appendix is included, each one should be titled and lettered. In general, appendices should be formatted like chapters. However, they may be single spaced or include photocopied material. If photocopied material is used, you must add page numbers at the bottom, putting those page numbers in square brackets to indicate that they are not part of the original document.

2.3.2 References

The reference section should follow the final appendix (or the conclusion of the text if there are no appendices). Type the word “References” in chapter title format at the top of the page. Single space within references and double space between them. More information on formatting references is included in Chapter 3.

2.3.3 Vita

Including a vita page with your thesis is optional. If you choose to include a vita page, it should include your name, relevant academic and professional achievements, and current month and year you will be earning your degree. It may also include your publications and professional society memberships. If included, your vita should be the last page of your thesis. Note: Personally identifiable information such as birth date and place of birth should not be included on this page.

2.3.4 Short Title Page

The short title page should be prepared as described in Appendix B.

Chapter 3

Citing References

In the References section at the end of your thesis, list references cited using the style recommended in *The Chicago Manual of Style* [9] or another style acceptable to your committee. Insert parenthetical references where the reference material is referred to in the text. This chapter explains how to format references according to *The Chicago Manual of Style*. If you use a different style, you should obtain the appropriate style rules. For example, most journals periodically print instructions for authors that include reference style rules.

3.1 Parenthetical References

References should be cited at the position in the text where they are noted. *The Chicago Manual of Style* [9] recommends two systems for citations. You may use either of these systems or an alternative system acceptable to your committee.

3.1.1 Author-Date System

In this system, the last name of the author and the year of publication appear in parentheses following the quoted text. If the reference is alphabetized in the References section by its editor, publisher, or organization, then the name it is alphabetized under is used in place of the author. Some examples follow:

- Single author: (Smith 1993)

- Two authors: (Jones and Yang 1991)
- Three authors: (Jones, Smith, and Yang 1984)
- Four or more authors: (Johnson et al. 1994)
- Organization as author: (Association for Computing Machinery 1989)
- Two works referenced in one sentence: (Black 1994; Smith 1993)

3.1.2 Numbered References

In this system, the reference number appears in square brackets following the quoted text. This system is used throughout this document.

3.2 Reference List

References should be listed in alphabetical order by the last name of the first author (or organization or publisher, if no author is given). If the numbered reference style is used, the reference list should obviously be numbered as well. Several example references are listed in this document's reference list. Most of these references are taken from *A Manual for Writers of Term Papers, Theses, and Dissertations* [8].

References

- [1] S. Akazawa. The scope of the Japanese information industry in the 1980s. In K. R. Brown, editor, *The challenge of information technology: Proceedings of the forty-first FID (Federation Internationale de Documentation) congress held in Hong Kong 13-16 September 1982*, pages 19–22, Amsterdam, New York, and Oxford, 1983. North Holland.
- [2] American Library Association, Young Adult Services Division, Services Statement Development Committee. Directions for library service to young adults. Chicago, 1978.
- [3] Gilberto Artioli. *Structural studies of the water molecules and hydrogen bonding in zeolites*. PhD thesis, University of Chicago, 1985.
- [4] B. G. F. Cohen. Human aspects in office automation. Technical Report NTIS, PB84-240738, National Institute for Occupational Safety and Health, Division of Biomedical and Behavioral Science, Cincinnati, 1984.
- [5] Martin Greenberger, Julius Aronofsky, James L. McKenney, and William F. Massy, editors. *Networks for research and education: Sharing of computer and information resources nationwide*. MIT Press, Cambridge, 1974.
- [6] Richard Jackson. Running down the up-escalator: Regional inequality in papua new guinea. *Australian Geographer*, 14:175–84, May 1979.
- [7] William Jr. Strunk and E. B. White. *The Elements of Style*. MacMillan Publishing Co., New York, 3rd edition, 1979.
- [8] Kate L. Turabian. *A Manual for Writers of Term Papers, Theses, and Dissertations*. University of Chicago Press, Chicago, 5th edition, 1987.
- [9] University of Chicago Press. *The Chicago Manual of Style*. University of Chicago Press, Chicago, 13th edition, 1982.
- [10] U.S. Department of Agriculture. *Will there be enough food? The 1981 yearbook of agriculture*. Government Printing Office, Washington, D.C., 1981.

Appendix A

The English Language and Other Confusing Things

While this guide answers most questions about how to format a thesis, it does not address questions about English grammar, use of abbreviations, punctuation, spelling, and other confusing subjects. Students should obtain a dictionary and a style of grammar book to refer to as questions arise. The dictionary is important because most electronic spelling checkers are not complete and do not contain definitions. (You may also need to refer to some of the references you cite for the spelling of technical terms.) The grammar or style book is useful for checking grammar and punctuation rules. A good style manual contains information about correct English usage as well as advice for preparing a manuscript. *A Manual for Writers of Term Paper, Theses, and Dissertations* [8] is one such concise and inexpensive manual based on the lengthy and more expensive *Chicago Manual of Style* [9].

The following rules will help you avoid three mistakes frequently made by students:

- Hyphenated words must begin and end on the same page.
- When a page break falls in the middle of a paragraph, at least two lines of text from that paragraph must appear on the second page.
- At least one line of text from a section or subsection must appear on the same page as the title of that section or subsection.

Appendix B

Procedures and Deadlines

Deadlines At least one semester prior to the semester in which you believe you will complete all requirements for your degree, please be sure to consult with your department's graduate administrative assistant or coordinator to be sure you are aware of all requirements and deadlines with regards to the submission of your thesis or dissertation. Deadlines are printed in the course listings schedule book and are posted online. If you cannot make certain deadlines, you may have to postpone your graduation accordingly. In particular, a student must file an "intent to graduate" form (via WebSTAC) by the published deadline prior to any anticipated graduation date; otherwise, no degree can be earned. M.S. and D.Sc. students also have a special deadline by which they must submit an initial draft (PDF) of their thesis to Engineering Student Services at ess@seas.wustl.edu to be reviewed for formatting. After a draft has been submitted for format review, an email will be sent to you within 48 hours detailing any changes that need to be made in the formatting of your thesis or dissertation. For M.S. and D.Sc. students, approval of your thesis or dissertation formatting must be received prior to turning in the final electronic and hard copy versions as described below.

Ph.D. students must follow the requirements of the Office of Graduate Students in Arts and Sciences (GSAS). The GSAS office does not have special formatting deadlines, but you should still contact that office if you have questions about your formatting.

Oral Examination Each member of the oral examining committee must be given a copy of the thesis or dissertation, in final form, in sufficient time to study it before the oral examination. Members of the examining committee have the right to request rescheduling of

the examination if these copies are not made available to them at least one week in advance of the scheduled examination date. Copier paper may be used for these preliminary copies.

Electronic Submission After the oral defense, an M.S. or D.Sc. student is required to submit an electronic version of his/her final thesis or dissertation in PDF format. The links can be found on the Engineering Student Services website under the Graduate Student Services section. Click on the link for Thesis and Dissertation Submissions and then select the appropriate link for Master's or D.Sc. electronic submission under step 3. The website for doctoral students submitting dissertations requires students to choose among publishing and copyrighting services offered, but the University permits students to make whichever choices they prefer. Doctoral students are asked to submit a Survey of Earned Doctorates separately to Engineering Student Services.

Please note that the electronic submission of your thesis or dissertation should be made by the stated deadline date on the current academic calendar and prior to handing in the final hard copies as described below. An administrator in Engineering Student Services will review the electronic copy of your thesis or dissertation and officially approve the submission online. This electronic version will be used for library publication and catalog purposes. In addition, students typically must submit hard copies of the thesis or dissertation for binding purposes (see below).

Final Hard Copies After the oral defense and electronic submission, final copies of the thesis or dissertation approved by the examination committee and department are to be submitted to Engineering Student Services in Lopata 303 on or before the date stated in the current academic calendar.

1. **Three** final copies (unless your department instructs you otherwise) must be printed using only one side on 8.5×11 inch white paper and minimum 20-pound weight. (Most printer and copier paper qualify, but a high-quality watermarked or 10–25% cotton paper is recommended.) Print should be letter quality. Copies submitted should not be bound, stapled, clipped or hole-punched. To avoid delays in publication, please make certain that the copies you submit include all pages of your thesis or dissertation.

Each copy should be placed in a separate unsealed manila envelope with a copy of the **short title page** (see description below) securely taped to the outside of each envelope.

Engineering Student Services sends all three copies of your thesis or dissertation to West Campus Library. The Library will have these copies professionally bound and sent back to your home department. The home department will keep one copy and distribute one to your advisor. The third copy will be mailed to you at your home address. In order for you to receive your bound thesis or dissertation promptly, your home department must have your current mailing address. On your “intent to graduate” form you should input your “address after graduation.” Processing theses and dissertations takes time, so you may have to wait 3–6 months after your graduation date to receive your copy.

2. **Short Title** page is a loose sheet containing (1) a short title of 35 letters or less (including spaces), (2) the authors last name, (3) the degree, and (4) the year of its award, centered on the page and punctuated as in the example.² This short title sheet is to be taped securely to the outside of each manila envelope as described above. This information lets the bindery know what to put on the spine of the bound copies. The title will be truncated if longer than 35 characters.
3. **Doctoral (D.Sc.) degree candidates** must complete the Survey of Earned Doctorates form and submit it with the 3 copies of your final dissertation. You can download the Survey of Earned Doctorates form from the School of Engineering’s website under Graduate Student Information and Forms.

NOTE FOR PH.D. STUDENTS: Deliver all three copies of your dissertation to the GSAS Office. See GSAS dissertation guidelines on their web site.

²See the sample short title page at the end of this document

Thesis Format Checklist

Appendix D

Special Notes for L^AT_EX Users, Including a Demonstration of Wrapping Appendix Titles

It is strongly recommended that you use this file as a template for your thesis, since it greatly simplifies conforming to the required formatting standards.

There are several important points that students using the L^AT_EX version of this template should verify before submitting a thesis.

D.1 Front Matter

Much of the front matter (i.e., the Roman numbered pages) is automatically generated. Use `\renewcommand` command to customize the fields of these templates. For example, `\renewcommand{\thesisauthor}{your name here}` will customize the author name.

Most authors will need to customize the `\thesismonth`, `\thesisyear`, `\thesisauthor`, `\thesisauthorlastname`, `\thesisdefensedate`, `\thesistitle`, `\thesisshorttitle`, `\thesisdepartment`, `\thesisfield`, `\thesissupervisor`, and `\thesiscommittee` fields. Examples of these can be seen in the sample `thesis-main.tex` file.

You must also specify `phdthesis`, `dscthis`, or `mastersthesis` when selecting the `\documentclass`. An example can also be seen in the sample `thesis-main.tex` file.

D.2 Table of Contents and Bibliography

The Table of Contents is automatically generated. `latex` should be run twice in succession after making any changes to the Table of Contents.

Due to the way L^AT_EX formats the Table of Contents, long appendix titles will not automatically wrap and indent properly. If you need to use a long appendix title, you must manually wrap and indent the appendix's table-of-contents entry. The `\wrappedappendix` command is defined in this template to assist with this; an example is seen at the top of the sample `thesis-appendixD.tex`. This requirement only applies to appendix titles: other section titles will automatically wrap properly, including entries in the List of Tables and List of Figures.

If changes need to be made to the Table of Contents' formatting, you can use the `\addtocontents` command to insert some formatting commands directly into the Table of Contents page. More significant changes can be made by editing the `.toc` file that L^AT_EX automatically generates. However, editing this file by hand is not recommended unless absolutely necessary, since it will automatically be re-generated the next time L^AT_EX is run.

Like the Table of Contents, the Bibliography is automatically generated. After editing the bibliography file, you should run `latex`; run `bibtex`; and re-run `latex` twice in succession.

D.3 Widows and Page Breaks

L^AT_EX may create widows if you have a paragraph followed by a list. To get rid of this widow, you must force L^AT_EX to break the page somewhere else. Either insert a `\newpage` command before the paragraph, or insert a `\samepage` command between the paragraph and the list.

L^AT_EX may also create widows in the Tables of Contents. You can force L^AT_EX to break the page in a more convenient location by inserting `\addtocontents{toc}{\newpage}` before the corresponding `\chapter`, `\section`, `\subsection`, or `\subsubsection` command in the text.

Excluding these two situations, L^AT_EX should not create orphans or widows. However, in some situations it may place page breaks at strange places — such as several inches above the bottom margin — in order to avoid creating orphans or widows. You can fix this by altering the `\clubpenalty` or `\widowpenalty`, or by manually adding `\newpages` where L^AT_EX guesses incorrectly.

Vita

Ima Gooden-Reddi

Degrees	B.S. Magna Cum Laude, computer Science, May 1988 M.S. Computer Science, December 1990 D.Sc. (or Ph.D.) Some Department, May 2007
Professional Societies	Association for Computing Machines The Touring Society The Free Software Foundation
Publications	Student, I. D. (2005). \LaTeX document class for Sever Institute, <i>The \LaTeX J.</i> 10 (4): 323–336. Student, I. D. (2005). More \LaTeX wisdom, <i>Another \LaTeX J.</i> 42 (7): 100–101.

May 2012

Note: Use month and year in which your degree will be conferred.

The Proper Format of Theses, Student's_Last_Name, M.S. 2012

NOTE: This is a sample of a “short title” page. Please change the line above to use an appropriate “short title” for your thesis, insert your last name, and include your degree and year in which the degree will be earned. Separate elements using commas, as illustrated in the sample above. Your “short title” cannot exceed 35 characters, counting spaces. It does not matter if there is a page number at the bottom of the page.

IMPORTANT: This page should be printed and taped securely to each of the three manila envelopes used to submit your final hard copies. Remove this page before submitting your final copies (i.e., this page should not be included in either your electronic submission or your hard copy submissions). See Appendix B for further details if necessary.