GUIDE TO PREPARING A DISSERTATION, THESIS, OR REPORT
AT MICHIGAN TECHNOLOGICAL UNIVERSITY

By
The Graduate School

MICHIGAN TECHNOLOGICAL UNIVERSITY

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1. Overview

This edition of the *Guide to Preparing a Dissertation, Thesis or Report at Michigan Technological University* (referred to as the *Guide* throughout the remainder of this document) is revised from the 2012 version. Some important changes are:

- The sections pertaining to submitting a document have been removed and links to finding the relevant information and instructions on the web have been provided in Section 2.1 on page 2.

- For deadlines to complete a degree, students are referred to the Graduate School’s web site for dates. See: [http://www.mtu.edu/gradschool/administration/academics/forms-deadlines/](http://www.mtu.edu/gradschool/administration/academics/forms-deadlines/)

- A summary of web resources has been added so that students can more easily find resources provided by the Graduate School. See Section 2.2 on page 2.

- The Guide has been updated to reflect that binding of any documents is no longer required and that these services will no longer be provided by Michigan Tech.

- Minor updates for clarity based on student questions have been incorporated throughout the document.
2. Graduate School Online Resources

2.1. Degree completion and deadlines

Instructions for degree completion are found on the Graduate School’s web page for:

- **Dissertations:** [http://www.mtu.edu/gradschool/administration/academics/timeline/dissertation/](http://www.mtu.edu/gradschool/administration/academics/timeline/dissertation/)
- **Theses:** [http://www.mtu.edu/gradschool/administration/academics/timeline/thesis/](http://www.mtu.edu/gradschool/administration/academics/timeline/thesis/)
- **Reports:** [http://www.mtu.edu/gradschool/administration/academics/timeline/report/](http://www.mtu.edu/gradschool/administration/academics/timeline/report/)

Deadlines for upcoming semesters for scheduling defenses, holding defenses, and submitting documents are also found online:

[http://www.mtu.edu/gradschool/administration/academics/forms-deadlines/](http://www.mtu.edu/gradschool/administration/academics/forms-deadlines/)

Students can log into [www.MyMichiganTech.mtu.edu](http://www.MyMichiganTech.mtu.edu) for a detailed and personalized summary of their degree progress to date. Resources available on the “Current students” tab include the:

- **Student checklist:** a personalized list of items that are needed now (marked with an open checkbox) or that are overdue (marked with an exclamation mark).

- **Degree completion timeline:** a personalized list of every item needed to complete each degree along with which items are complete or incomplete.

- **Dissertation, Thesis, or Report status:** a summary of a student’s status of these documents

2.2. Formatting Resources

The Graduate School has a number of formatting resources available to assist students with document preparation, including templates and step-by-step tutorials. These resources are summarized online:

2.3. Writing Resources

2.3.1. Turnitin

Students are encouraged to use Turnitin to evaluate their documents for plagiarism. Information about how to access Turnitin is found on the formatting pages referenced in Section 2.2 above. For more information about academic and research integrity, refer to Section 5 on page 17.

2.3.2. Graduate School Communications Assistance Program

One-on-one assistance with writing and formatting is available through the Graduate School Communications Assistance Program (GS-CAP). There is a fee for this service. More information is available online at:

http://www.mtu.edu/gradschool/gscap

2.3.3. Michigan Tech Multiliteracies Center

The Michigan Tech Multiliteracies Center (MTMC) is also available to assist students with writing as well as preparing oral, poster, or other presentations. Please see their web site for more information about their services:

http://www.mtu.edu/humanities/mtmc/what-we-offer/
3. Formatting guidelines

The formatting required for dissertations and theses ensures acceptance of documents by ProQuest and allows student to bind these documents if desired. Graduate School formatting requirements are underlined in this section.

Students completing a report are not required to adhere to the requirements in this section.

3.1. Typefaces

The typefaces and sizes listed in Table 3.1 are recommended for the main body of the text of a dissertation or thesis. Other typefaces are acceptable as long as they are legible. Type 1, Open Type, or True Type fonts are required for the text of a document. All fonts must be embedded in the document.

Table 3.1

Examples of some of the typefaces recommended for use in the main body of dissertations or theses. Helvetica, Times, or Geneva fonts are also recommended for Macintosh users.

<table>
<thead>
<tr>
<th>Typeface (Shown at the minimum size)</th>
<th>Minimum Size for Body Text</th>
<th>Web Font</th>
<th>Minimum Size for Headings</th>
<th>Maximum Size for Headings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arial</td>
<td>10 pt</td>
<td>Yes</td>
<td>12 pt</td>
<td>24 pt</td>
</tr>
<tr>
<td>Century</td>
<td>11 pt</td>
<td>No</td>
<td>13 pt</td>
<td>25 pt</td>
</tr>
<tr>
<td>Garamond</td>
<td>12 pt</td>
<td>No</td>
<td>14 pt</td>
<td>26 pt</td>
</tr>
<tr>
<td>Georgia</td>
<td>11 pt</td>
<td>Yes</td>
<td>13 pt</td>
<td>25 pt</td>
</tr>
<tr>
<td>Lucida Bright</td>
<td>10 pt</td>
<td>No</td>
<td>12 pt</td>
<td>24 pt</td>
</tr>
<tr>
<td>Microsoft Sans Serif</td>
<td>10 pt</td>
<td>No</td>
<td>12 pt</td>
<td>24 pt</td>
</tr>
<tr>
<td>Tahoma</td>
<td>10 pt</td>
<td>No</td>
<td>12 pt</td>
<td>24 pt</td>
</tr>
<tr>
<td>Times New Roman</td>
<td>12 pt</td>
<td>Yes</td>
<td>14 pt</td>
<td>26 pt</td>
</tr>
<tr>
<td>Trebuchet MS</td>
<td>10 pt</td>
<td>Yes</td>
<td>12 pt</td>
<td>24 pt</td>
</tr>
<tr>
<td>Verdana</td>
<td>10 pt</td>
<td>Yes</td>
<td>12 pt</td>
<td>24 pt</td>
</tr>
</tbody>
</table>
3.2. Margins

The binding edge margin of all pages must be between 1.5 and 1.6 inches. The margins of the remaining sides must be between 1.0 and 1.25 inches. The required margins apply to all components of the document, including page numbers, footnotes, and appendices. See Figure 3.1 for a sample page that includes a page number and footnotes.

3.3. Paper size

The main body of a dissertation, thesis, or report must be formatted to print on 8.5 × 11 inch paper. Oversize maps or tables are allowed (see Section 3.9).

3.4. Page numbers

The title page, approval page, and dedication page (if included) are included in the page count; however, a page number is not placed on these pages. This means that the table of contents will be numbered page iii (or 3) in a single-sided document that does not have a dedication page. All other non-blank pages are numbered and have numbers placed on them. Blank pages are included in the page count but do not have page numbers printed on them.

Each page in a document must be assigned a unique and sequential number. In a traditional document, page numbers on pages preceding the main body of the document are printed using lower case Roman numerals (e.g., i, ii, iii, etc.). Arabic numerals (e.g., 1, 2, 3, etc.) are used for page numbers in the main body of the document and any subsequent materials (e.g., a reference list or appendix). It is allowable to use Arabic numerals for page numbers throughout the document.

Page numbers may either be placed at the center of the bottom of the page or in the upper corner of the page on the side opposite the binding. Page numbers must fall within the printable area of the page (see Figure 3.1). Page numbers must appear in the same place throughout the document, even if the orientation of pages changes. Some software packages will automatically place page numbers within a header or footer that may or may not account for the size of the margins in an intuitive way. It is important to confirm that all page numbers fall within the document’s printable area.
3.5. Double-sided printing

Double-sided documents are allowable and may cost less to print and bind. Double-sided documents must adhere to the following requirements that relate to margins and page numbering. Also see Section 3.9 regarding the use of oversize pages or media in documents that are prepared for double-side printing.

- Margins: The binding edge margin must be 1.5 to 1.6 inches on all pages. For portrait pages in a double-sided document, the binding edge will be on the left hand side for odd pages, and on the right hand side for even pages. For landscape pages, the binding edge will be on the top for odd pages, and at the bottom for even pages.

- Page numbers: Page numbers placed at the bottom center of the page require no special treatment. If numbers are placed in the upper outside corner, they will appear in the upper right corner on odd pages, and the upper left corner on even pages.

- Blank pages: The title page, approval page, and dedication page (if present) are always printed as one-sided sheets. When a document is prepared for double-sided printing, the back of each of these sheets must be left blank. One way to accomplish this is to insert blank “pages” that will correspond to the reverse side of each of these one-sided sheets. These blank pages do not have numbers printed on them, but they are included in the page count. In a double-sided document, the table of contents is the first page with a number on it; it will be page v (or 5) if no dedication is present, and page vii (or 7) if a dedication is present. Blank “pages” may also be inserted as desired to ensure that major sections (such as the start of a chapter) begin on odd-numbered pages. Blank “pages” are only allowed to occur on even-numbered sides of sheets of paper. Two or more blank “pages” in a row are not allowed.

3.6. Line spacing

Single-spacing, one and one-half line spacing, and double-spacing are allowed. Blank lines may be inserted before and/or after headings in the body of a document. If the first lines of paragraphs are not indented, blank lines should be inserted between each paragraph.

3.7. Figures

Figures should be formatted in a consistent way and the same type(s) and size(s) of fonts should be used in all figures if possible. Sans serif fonts such as Arial or Tahoma are generally preferred for figures. In all cases, any text used in a figure must be legible.
All images must be clear, readable, and reproducible. Images that look good on a computer screen may not be of sufficient resolution to print well. A minimum resolution of 300 ppi is typically recommended for printed materials. Screenshots have a maximum resolution of 72 dpi, and should be used only when absolutely necessary.

Each figure must have a caption that identifies the figure number. Each figure must be assigned a unique, sequential number. In a traditional dissertation or thesis, figures are numbered using the chapter number followed by a period and the figure number (e.g., Figure 3.1). Figure captions are located below each figure. The first sentence of a caption must be an overview of the figure. Subsequent sentences must include, as necessary, detailed information about the figure. Captions should be descriptive enough that the figure can be understood by someone who has not read the body text. If a figure contains multiple parts, each part is generally identified with a letter that is placed within the figure. The caption for a figure with multiple parts typically contains a description of each part, which begins with the part’s letter (usually italicized), followed by a comma.

### 3.8. Tables

Tables should be formatted in a consistent way. The size and font used for text in a table will generally be the same as that used in the main body of a document. Bold text may be used to denote headings in a table. A consistent style of borders should be used for all tables in the document if possible.

Each table must have a caption that identifies the table number. Each table must be assigned a unique, sequential number. In a traditional thesis or dissertation, tables are numbered using the chapter number, followed by a period and the table number (e.g., Table 3.1). Table captions are located above each table. The first sentence of a caption must be a general description of the table. Captions should be brief. Discussion of the significance of the data presented in a table should be included in the body of the document.

### 3.9. Including oversize pages or media

Students who wish to print documents with oversized materials or supplemental electronic files in a media pocket should contact the bindery of their choice to determine how to properly format their documents. Note that there may be an extra charge to print documents that require oversize materials or pockets.

Oversize pages measuring up to 11 × 17 inches can be included within the body of the document so that the pages fold out from the binding edge. Simply incorporate these pages in the appropriate location, adhering to the margins as described in Section 3.2 on page 5.
Supplemental files, such as video, sound, or data, can also be included with a submission. See Section 6.1 on page 21 for additional instructions on preparing the electronic submission.

3.10. Use of color

Color should be used only when necessary. Color is more expensive to print than black and white, it does not reproduce equally well on different printers or computer monitors, and may be difficult for visually impaired readers to interpret. Some word processors use RGB color to present black text in a PDF file. See the Graduate School web site [http://gradschool.mtu.edu/td/formatting] for guidance on how to present these pages in black and white to minimize printing costs if professional binding is required.
4. Sections and order

Dissertations and theses should contain the sections described in this section. Some sections are required (as noted) and some are optional. When optional sections are included they should appear in the order recommended in this section of the Guide.

4.1. Title page (required for Dissertations, Theses, and Reports)

Sample title pages are shown in Appendix A. The typeface, style and size of text should be the same as that used for the body text of the document. A page number is not placed on this page, but it is included in the page count. A title page must contain the following elements in the following order:

- The title – shown in all capital letters. For example, “MY DISSERTATION”, or “MY THESIS”, or “MY REPORT”, where My Dissertation (or My Thesis, or My Report) is the exact title of the document.

- The author’s full name – shown in a mix of upper and lower case letters. For example, “Jane E. Doe”, where Jane E. Doe is the name of the author.

- Type of document – shown in all capital letters. This will be one of the following: “A DISSERTATION”, “A THESIS”, or “A REPORT”.

- The following statement – written exactly as shown here but without the quotations: “Submitted in partial fulfillment of the requirements for the degree of”.

- Type of degree – shown in all capital letters. For example, “DOCTOR OF PHILOSOPHY”, or “MASTER OF SCIENCE”.

- The name of the degree program – shown using upper and lower case letters. The word “In” should precede the name of the degree program. Note that the name of the degree program will generally not be the same as the name of a department or school. See [http://www.mtu.edu/gradschool/programs/degrees/] for a current list of all degree programs.

- The University name – shown in all capital letters, as shown here but written without the quotation marks: “MICHIGAN TECHNOLOGICAL UNIVERSITY”.

- The year of completion of the final document. Note that this may not be the same year that the dissertation, thesis, or report was defended.
• A copyright notice – printed using a mix of upper and lower case letters and with the format: “©Year Owner’s Name”. For example: “©2012 Jane E. Doe” “Copyright” or “Copr.” may be used instead of “©”. Note that copyrights may be registered, for a fee, when documents are submitted to ProQuest.

4.2. Approval page (required for Dissertations, Theses, and Reports)

Sample approval pages are shown in Appendix A. The style and size of font should be the same as that used for the body text of the document. A page number is not placed on this page, but it is included in the page count.

The following elements must be included on an approval page in the following order:

• For a dissertation, the text: “This dissertation has been approved in partial fulfillment of the requirements for the Degree of DOCTOR OF PHILOSOPHY (note that the name of the degree is written in all capital letters) in Degree Program (where the appropriate name is entered and is written in a mix of upper and lower case letters and is not italicized).” Note that the name of the degree program will generally not be the same as the name of a department or school. See [http://www.mtu.edu/gradschool/programs/degrees/] for a current list of all degree programs.

• For a thesis, the text: “This thesis has been approved in partial fulfillment of the requirements for the Degree of DEGREE TYPE (where the appropriate name of the degree, e.g., Master of Science, is inserted and is written in all capital letters) in Degree Program” (where the appropriate name is entered and is written in a mix of upper and lower case letters and is not italicized). Note that the name of the degree program will generally not be the same as the name of a department or school. See [http://www.mtu.edu/gradschool/programs/degrees/] for a current list of all degree programs.

• For a report, the text: “This report has been approved in partial fulfillment of the requirements for the Degree of DEGREE TYPE (where the appropriate name of the degree, e.g., Master of Science, is inserted and is written in all capital letters) in Degree Program” (where the appropriate name is entered and is written in a mix of upper and lower case letters and is not italicized). Note that the name of the degree program will generally not be the same as the name of a department or school. See [http://www.mtu.edu/gradschool/programs/degrees/] for a current list of all degree programs.

• Name of the student’s administrative home department or school written in upper and lower case letters. Note that the name of the department or school will
generally not be the same as the name of a degree program. This line is right aligned as shown on the template examples in Appendix A.

- Names of members of the Graduate Faculty who served as advisor (or co-advisors, if applicable) and as committee members and approved the dissertation, thesis, or report.
  
  o The top line is for the name of the advisor. When there is a single advisor, this line should be preceded by the words: “Dissertation Advisor:” (or “Thesis Advisor:” or “Report Advisor:” as appropriate). If there are two co-advisors, the name of the first co-advisor is given on the first line and the name of the second co-advisor is given on the second line. When there are two co-advisors, the name of each co-advisor should be preceded with the words “Dissertation Co-Advisor:” (or “Thesis Co-Advisor:” or “Report Co-Advisor:”).

  o List each committee member on a separate line. The names should be preceded by the words: “Committee Member:”. All of the Committee Members must be listed.

  o All names listed on this page must be italicized.

- The second to the last line is reserved for the title and name of the department chair or school dean of the unit which served as the student’s academic home at the time they completed the degree. The individual’s title (e.g., “Department Chair:”, or “School Dean:”) should precede the name of the individual. The name of the School Dean or Department Chair must be italicized.

4.3. Dedication (optional)

Dissertations, theses, or reports may be dedicated to an individual, several people, or a group. The word “dedication” is usually not needed on this page. Customarily, the dedication is short, such as, “To my mother.” This page is not numbered if included, but is included in the page count.

4.4. Table of contents (required for Dissertations and Theses)

Each chapter or section heading, with the exception of the table of contents, must be listed in the table of contents. Additional subheadings may also be included. The table of contents must be formatted so that each level of heading is clearly distinguished and page numbers are easily found. Page numbers must align flush right and must be preceded by a leader of periods. One way to clearly identify section headings is to
increase the indentation of successively lower levels of subheadings. Formatting for a Table of Contents is illustrated in the table of contents for this Guide.

4.5. **List of figures (optional)**

If a list of figures is included, it should consist of a table that lists the figure number, the first line of the figure caption, and the page number on which the figure occurs. The formatting of the list of figures is similar to that of a table of contents, except that there are no subheadings.

4.6. **List of tables (optional)**

If a list of tables is included, it should consist of a table that lists the table number, the first line of the table caption, and the page number on which the table occurs. The formatting of the list of tables is similar to that of a list of figures.

4.7. **Preface (required in certain instances for Dissertations and Theses)**

A preface is required in two situations:

- A document includes previously published materials, or
- A document includes materials developed collaboratively.

A single preface at the beginning of the dissertation or thesis is required if published material, such as a journal article, is republished in its entirety as a chapter in the document. For the purposes of this Guide, published materials include those already in print, accepted for publication, in review, or planned for submission in the near future.

A preface is also required if part of the dissertation or thesis was prepared collaboratively. For example, if a chapter of a dissertation was prepared jointly by the author of the dissertation and another student (who worked together on the research project and in the writing of the text of the chapter), the preface must clearly describe the contributions made by each individual.

4.8. **Acknowledgements (optional)**

This page is used to thank individuals, groups, or organizations for their support.

4.9. **Definitions (optional)**

If a list of definitions is included, it should be alphabetized. A definition list may include a key to foreign terms and phrases used in the document.
4.10. List of abbreviations (optional)
If a list of abbreviations is included, it should be alphabetized.

4.11. Abstract (required for Dissertations, Theses, and Reports)
An abstract is a concise summary of the document. It is not an introduction. It should clearly identify the topic and major findings of the research. The abstract in the document will be used for the ProQuest index and to advertise the oral defense on campus. Publication with ProQuest is required for dissertations and theses. ProQuest does not accept reports at this time. Dissertation abstracts should be less than 350 words and thesis and report abstracts should be less than 150 words in order to ensure that they are not truncated by automated search engines. Under no circumstances may an abstract be longer than two pages (double-spaced) or one page (single-spaced).

4.12. Main body (required for Dissertations and Theses)
If the student’s program has requirements for the content of a dissertation or thesis, those requirements should be used in place of the recommendations in this section.

A traditional document presents the research in the form of a single document (similar to a book). Dissertations and theses can also be presented as a collection of articles, some of which may have been published previously. Both formats are acceptable.

If material included in a dissertation, thesis, or report has been previously published, that prior publication must be cited in the dissertation, thesis, or report. Reproduction of any section of an article that is larger than allowed for by “fair use” policies requires appropriate copyright permission.

4.12.1. Common sections in a traditional document
4.12.1.1. Introduction
The introduction lays the foundation for the current research and places the work in context within the disciplinary field. It should be an analysis of the existing body of research that has a bearing on the current project. It should both review the literature and provide a critical analysis of it. It should outline some of the limitations of prior research and describe areas that are in need of further exploration. This section provides context for the goals of the current research project.

4.12.1.2. Goals and hypotheses
Following the introduction is usually a section outlining the goals or purpose of the current work and the hypotheses being tested or problems being addressed.
4.12.1.3. Methods

The methods section describes all of the methods used in the study. Methods may include activities such as modeling, conducting simulations, performing field work or experiments, implementing surveys, among many other techniques. If the description of one or more of the methods is lengthy, it is appropriate to include an overview in this section of the document and to include more details in an appendix.

4.12.1.4. Results (data and observations)

The results section presents all of the data obtained using the methods described in the methods section. A common mistake is to include a description of methods within the results section. This should be avoided in nearly all circumstances. If the data are extensive, a summary may be included in the main body of the document with additional information located in an appendix. Appendices may also be used to present data in different formats.

4.12.1.5. Discussion

In the discussion section, results are interpreted and are put in context with the current state of research in the discipline. The discussion section should clearly explain the meaning of the results and their implications, in particular as they relate to the hypothesis(es) tested. It is common to use citations to refer to the primary disciplinary literature in order to compare and contrast the results of the current project with results obtained and reported by other researchers. Sources of discrepancies, limitations, or errors in the current work and their implications should also be presented in the discussion section. New data should not be presented in this section.

4.12.1.6. Future work

This section highlights additional work that could be done at a later date to build upon the current research.

4.12.1.7. Conclusions

Conclusions summarize the main findings of the current research. This section reiterates the main findings and limitations of the research and may highlight some of the areas for future work.

4.12.2. Collection of articles

In this type of document each chapter is typically developed as a stand-alone section. If any chapter contains published material (such as a journal article) or was prepared collaboratively, a preface section should be included in the dissertation or thesis to clarify the status and origin of the material. For the purposes of this Guide, published materials
include those already in print, accepted for publication, in review, or planned for submission in the near future.

When the document consists of a collection of articles, an introductory chapter must be included that describes the connection between all other chapters. A dissertation or thesis is not simply a collection of articles; it is the presentation, synthesis, and analysis of an entire research project which was conducted over a period of time. It is most helpful when the introductory chapter states the goals and hypotheses for the overall project and describes how each chapter relates to the overall goal.

Formatting of published items included in a thesis or dissertation must either:

- Conform to the guidelines to authors of the publishing organization, or
- Be consistent with the rest of the thesis or dissertation.

Photocopies or PDF versions of previously published papers will not be accepted.

A footnote must be placed on the first page of a chapter containing published material with the following information:

- “The material contained in this chapter was previously published in \textit{OR} has been accepted for publication in \textit{OR} has been submitted to the \textit{OR} is in preparation for submission to \textit{Title of Source of Publication}.”
- If a source of publication has not yet been determined, edit the footnote as needed to reflect where it might be submitted. For example: The material contained in this chapter is in preparation for submission to a journal.

4.13. Reference List/Bibliography (required for Dissertations and Theses)

A reference list or bibliography presents all of the sources cited in the document. It may also include works consulted. The style used in the list of references should be consistent with the style used in a well-respected journal in the student’s discipline. A single reference list for the entire document may be included or separate reference lists may be included at the end of each chapter.
4.14. Appendices (optional)

Appendices are used to place lengthy and detailed material that supports the main body of work. Appendices should be formatted in the same way as the body of the dissertation, thesis, or report.
5. Academic integrity and responsible conduct for research

Dissertations, theses, and reports are expected to be completed with the highest level of integrity and must adhere to all University policies and the accepted standards of practice in the relevant disciplinary field.

5.1. Research misconduct

Michigan Tech addresses academic integrity and misconduct in research, scholarly, and creative endeavors (hereafter, “misconduct”) in separate policies and procedures. The integrity of academic assignments is addressed by the Academic Integrity Policy (Senate Policy 109.1), while the integrity of research is addressed by the Misconduct in Research, Scholarly, and Creative Endeavors Policy (Senate Policy 204.1). A dissertation, thesis, or report is considered research, and allegations of misconduct are handled according to the misconduct procedures (Senate Procedures 204.1.1). Current Senate policies and procedures can be found online [http://www.mtu.edu/senate/policies-procedures/list/].

Misconduct includes, but is not limited to, fabrication, falsification, or plagiarism.

- Fabrication is making up data or results and recording or reporting them.
- Falsification is manipulating research materials, equipment, or processes, or changing or omitting data or results such that the research is not accurately represented.
- Plagiarism is the appropriation of another person’s ideas, processes, results, or words without giving appropriate credit to the originator. Policies related to plagiarism also cover instances of self-plagiarism.

Misconduct does not include honest errors or differences in opinion.

5.2. Human and animal subjects and recombinant DNA

All research projects that involve human subjects, animal subjects, or recombinant DNA must be reviewed by the Office of Research Integrity and Compliance. Projects that are approved will receive an approval number from the Office of Research Integrity and Compliance that can be referred to in a dissertation, thesis, or report as evidence that approval was sought and granted.
5.3. Using copyrighted materials

Materials obtained from another source may be covered by a copyright. This section provides information pertaining to the use of copyrighted materials.

5.3.1. Determining if permission is needed

All material reused or obtained from another source must be properly cited. This includes previously published material that was originally created by the author of the dissertation, thesis, or report being submitted to Michigan Tech’s Graduate School.

Permission is needed to republish any material, including that created by the author of the dissertation, thesis, or report being submitted to Michigan Tech’s Graduate School, with the following exceptions:

- Material in the public domain. This includes material created by employees of the federal government. This may also include some materials produced in other countries or by other governments.

- Material for which the copyright has expired.

- Material that is covered under the “fair use” clause of copyright law, which allows for the reuse of some materials without permission.

- Text or figures substantially altered from their original source.

A full discussion of copyright law is beyond the scope of this Guide. The Graduate School maintains a web site that contains links to helpful websites and resources to assist students in obtaining permissions: [http://www.gradschool.mtu.edu/td/copyright]. ProQuest also maintains a resources page that contains a variety of publications related to Intellectual Property & Publishing Agreements, Guides & Policies that provides information about copyrights in general, what items require permission, and how to obtain permission: [http://www.etdadmin.com/cgi-bin/main/resources?siteId=162]. Stanford University also maintains a site that that describes copyright and fair use in academia in addition to addressing the use of copyrighted materials in the classroom: [http://fairuse.stanford.edu/overview/fair-use/].

5.3.2. Obtaining permission to use copyrighted materials

If permission is required to use previously published materials, it must be given in writing by the holder of the copyright (typically a publisher). Obtaining permission to use previously published material can take a great deal of time. Sample permission letters are available from ProQuest: [http://www.etdadmin.com/cgi-bin/main/resources?siteId=162].
If permission is not granted, the previously published material must not be used in its published form. In many cases text, figures, or tables can be substantially modified so that they can be used as long as they are properly cited.

5.3.3. Documenting permission to use copyrighted materials

In cases where copyrighted material is used in a dissertation, thesis, or report, it is expected that permission to use the material will be clearly documented. Many publishers explicitly describe the way that their permission to allow re-use of copyrighted material should be documented. Two ways this is typically done include the following.

- Include an acknowledgement of the permission granted by the holder of the copyright in the acknowledgement section of the dissertation, thesis, or report.
- Include a reference to the permission either in the text of the document, as a footnote, or in the caption of a figure or table.

In addition, students must submit documentation to the Graduate School that they have permission to use copyrighted materials in a dissertation or thesis or documentation that materials are exempt from copyright restrictions. This is required because ProQuest expects Michigan Tech to ensure that written permission to use copyrighted material has been obtained whenever necessary, and the Graduate School is not automatically aware of what materials are exempt from copyright restrictions. Evidence of permission to use material created by others or previously published can be documented in two ways

1. It can be included in an appendix to the dissertation or thesis. This is the preferred method because these materials will always be readily available to the author of the document in case they need access to the written evidence at some point in the future after they have completed their degree.
2. It can be submitted to the Graduate School with the final document as a separate, single, file. The file should be named in some logical way so that it can be easily located by staff members. Please do not email copyright documentation to the Graduate School.

With either method, label each piece of evidence with the corresponding figure number, table number, or chapter so that the reader can easily match the evidence to the corresponding material in the dissertation or thesis.

5.4. Originality Certification

The Publishing agreement includes an originality statement that students must sign to certify they are submitting an original document. This agreement is incorporated into the digital submission process.
Plagiarism-detection software (e.g., turnitin.com) can be used to assist in ensuring that a document is free of plagiarism. See [http://gradschool.mtu.edu/td/formatting] for links and instructions about accessing the plagiarism-detection software.

Several important facts should be kept in mind when using plagiarism-detection software.

- Plagiarism-detection software compares the text in a dissertation, thesis, or report to other sources that are available from the internet or from materials archived by the software provider.

- The software will alert the user to the presence of matching segments of text, even if the matching segment consists of a commonly used phrase that does not constitute plagiarized material.

- The software will not detect paraphrased material that is not cited or is improperly cited.
6. Electronic Document preparation and publication

6.1. Electronic document preparation

Dissertations, theses, and reports will be available electronically in the Library. Dissertations and theses will also be electronically available via the ProQuest Dissertations and Theses @ Michigan Technological University database (database access requires Michigan Tech ISO ID and password if off campus). ProQuest does not accept report submissions at this time.

Dissertations, theses, and reports must be submitted to the Graduate School as a single .pdf file with all fonts embedded. Compression, password protection, or digital signatures are not allowed. Supplemental files that do not lend themselves to inclusion in a written document (such as music or video) may also be included but must be linked to text or described within the .pdf document. Supplemental files must conform to ProQuest specifications as detailed in their publishing agreement. All supplemental files submitted to the Library must be contained in a single ZIP file. Contact the Graduate School for one-on-one assistance if these requirements cannot be met to discuss alternatives. See the “Publishing Guides” area of ProQuest’s web site: [http://www.etdadmin.com/cgi-bin/main/resources?siteId=162] for a complete listing of allowable file types.

The single .pdf file can be bookmarked and hyperlinked to aid navigation. It is recommended that, at a minimum, the table of contents contains hyperlinks to each section, and each item in the table of contents and the table of contents itself are listed as a bookmark. Figures and tables may be linked to the table of contents or to text within the main body of the document. See the Graduate School website [http://gradschool.mtu.edu/td/formatting] for information about using common types of software to prepare a dissertation, thesis, or report.

To avoid possible cross-platform problems and difficulties in future archival processes, the names of all files must follow standard naming conventions. File types must be indicated at the end of a document’s name using a period followed by letters. File names must conform to the requirements of the submission sites. See the Graduate School website [http://gradschool.mtu.edu/td/formatting] for current information.

When including supplemental files, it is recommended that files are named so that a computer will sort them in some logical manner. For example, each file name can begin with a 1- or 2-digit number to ensure they will sort logically: “01Smith.pdf”, “02Music.wav”, “03Movie.mov”, etc.
6.2. Publication

All dissertations, theses, and reports are normally published and available after degrees are awarded for the semester. Students can request that their document be embargoed for a finite period of time on the Publishing agreement form. This prevents it from being made available for a certain period of time. Embargoes are typically requested when students wish to publish their document as a book after graduation or when they have included proprietary material in their document. Students may also request that access to their electronic document be restricted to the Michigan Tech community when they submit the Publishing agreement. Submissions to ProQuest will have only the title and abstract available during the embargo period. Contact the Graduate School (gradschool@mtu.edu) in writing to request different access.

Requests for embargoes must include a justification for the request and must be approved by the advisor or graduate program director. Graduate School staff will review requests for one year or less. The dean of the Graduate School will review requests for longer than one year. Approval for an embargo of more than one year is not automatic and is rarely granted.

Once an embargo or restriction is in place, students may request to have their embargo or restriction extended by submitting a request in writing to the Graduate School at least two weeks before the embargo or restriction expires.

If professional binding is desired, the document should not be submitted to a bindery until the embargo or restriction has expired.
7. References


Appendix A

Sample title and approval pages

See Section 4.1 for a description of the title page and Section 4.2 for a description of the approval page. Examples are shown on the pages that follow.

The samples included for a thesis can be modified for use with a report by substituting the word “REPORT” for the word “THESIS”.

Sample pages in Word format along with instructions on how to convert them to PDF format and include them in a dissertation, thesis, or report can be found online [http://gradschool.mtu.edu/td/formatting].
INCREASING COMPUTATIONAL EFFICIENCY THROUGH NANOSCALE COMPONENT MODIFICATIONS

By

Jane E. Smith

A DISSERTATION
Submitted in partial fulfillment of the requirements for the degree of
DOCTOR OF PHILOSOPHY
In Computer Engineering

MICHIGAN TECHNOLOGICAL UNIVERSITY

2015

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Sample Approval Page for a Dissertation

This dissertation has been approved in partial fulfillment of the requirements for the Degree of DOCTOR OF PHILOSOPHY in Computer Engineering.

Department of Electrical and Computer Engineering

Dissertation Advisor: Type the name of the advisor here in italics. If there are co-advisors, replace the word “Advisor” with “Co-advisor”.

Dissertation Co-Advisor: If there are co-advisors, type the name of the second co-advisor here in italics.

Committee Member: Type the name of a Committee Member here in italics.

Committee Member: Type the name of a Committee Member here in italics.

Committee Member: Type the name of a Committee Member here in italics.

Committee Member: Type the name of a Committee Member here in italics.

Department Chair/School Dean: Type the name of the Department Chair or School Dean here in italics. Delete the title that doesn’t apply to the named individual.
IMPROVING PERFORMANCE OF DIESEL ENGINES UNDER LOW TEMPERATURE CONDITIONS

By
Mary A. Doe

A THESIS
Submitted in partial fulfillment of the requirements for the degree of
MASTER OF SCIENCE
In Mechanical Engineering

MICHIGAN TECHNOLOGICAL UNIVERSITY
2015

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Sample Approval Page for a Thesis

This thesis has been approved in partial fulfillment of the requirements for the Degree of MASTER OF SCIENCE in Mechanical Engineering.

Department of Mechanical Engineering – Engineering Mechanics

Thesis Advisor: Type the name of the advisor here in italics. If there are co-advisors, replace the word “Advisor” with “Co-advisor”.

Thesis Co-Advisor: If there are co-advisors, type the name of the second co-advisor here in italics.

Committee Member: Type the name of a Committee Member here in italics.

Committee Member: Type the name of a Committee Member here in italics.

Committee Member: Type the name of a Committee Member here in italics.

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