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INTRODUCTION

This guide is provided by the School of Graduate Studies to assist candidates in the preparation of theses and dissertations for submission to LSU Health Sciences Center at New Orleans. The guide specifies the requirements for the form and style of theses and dissertations. Please read the material in this document carefully: All candidates for advanced degrees should confer with their major professors and graduate advisors to determine specific departmental requirements. Questions not specifically addressed by departmental guidelines or by the information included in this document should be directed to the School of Graduate Studies.


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Paper

• White, acid-free, archival quality paper, 20 lb. weight is required for the original and copies.
• The paper must be 8 1/2"x11" in size
• Graphics are to be placed on 20 pound weight paper and have letter quality equivalent to that in the printed text.

Print

• Preferred: Laser printed copy with crisp, dark black characters
• Acceptable: High-quality photocopy with crisp, dark black characters

Text

• The text shall be on one side of the paper only. The use of a laser printer is acceptable.
• Whenever possible the manuscript should have typed scientific notations.

Font

• The same font must be used in all elements of the document. This includes all text, page numbers, table and figure legends, main headings (e.g., Acknowledgments, Table of Contents, List of Tables), and any other text not specifically mentioned here.
• The type size should not be smaller than 10-point. Script fonts (one that looks similar to cursive writing) may not be used; italics may be used only for scientific terms, foreign words, special emphasis, and in citing titles of published works, but are not acceptable for subheadings or other textual elements.

The following fonts are recommended:

10 pt. Arial * 10 pt Microsoft Sans Serif 11pt Courier New
10pt Century 10pt Times New Roman 11pt Lucida Bright
*10pt Garamond 10pt Tahoma 12pt Georgia *
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* Web fonts are designed for easy screen readability. Since many readers are likely to view your dissertation or thesis onscreen, you may wish to improve the readability of your text by using one of these fonts

• Headings and subheadings may be in a larger size, and may be in bold print, but the font must be the same one that is used in the remainder of the document.

• The author must remember that consistency is an absolute requirement.

For example, if a large type is used for one subheading, the same size type must be used in all subheadings. Or, if the major headings and subheadings have two different font sizes, the larger font must be used in the major headings.

• Restrictions with regard to the use of fonts do not preclude the use of special fonts for mathematical or other technical symbols which are standard in contemporary typography for the appropriate specialty.

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• Left: 1 ½"; Right: 1"; Top: 1"; Bottom: 1". ALL material including figures, headers/footers, footnotes/endnotes, and full-page images must appear within the margins of the manuscript.

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- Double-space: abstract, dedication, acknowledgements, table of contents, and body of the manuscript, except for quotations as paragraphs, captions, items in tables, lists, graphs, charts.
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- The last word on a page should not be hyphenated.

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- The preliminary pages (Acknowledgment, Table of Contents, Abstract, etc.) are to be numbered with small Roman numerals (ii, iii, etc.) centered at the bottom of the page two spaces below the marginal line.
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- Pages carrying a major heading (e.g., the first page of a chapter, bibliography, or appendix) will be similarly numbered with Arabic numerals.

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- Major headings should be centered and spaced one inch from the bottom of the upper margin (72 points or approximately 6 single spaced lines).
- The dissertation/thesis text must be either left-aligned or justified. Justification, where the text is aligned evenly along the left and right margins, is only acceptable if hyphenation is used to avoid unsightly gaps between words.

Hyphenation

- No word of less than six letters may be divided in a formal manuscript.
- Divisions of words at the end of a line should concur with Webster's International Directory and should not occur on more than two adjacent lines.

Page break

- Each heading of the main divisions of the manuscript (Table of Contents, Abstract, Introduction, Chapters, Autobiography, Bibliography, etc.) should begin on a new page, with the heading typed in capital letters throughout and centered one inch below the upper marginal line (72 points or approximately 6 single spaced lines).

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- The manuscript should be carefully proofread and corrected by the candidate before submission to the Graduate School Office.
- No inked-in corrections, crossing out of words, strikeovers, extensive erasures or whiteouts are permissible.
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- The candidate is required to submit two copies of the manuscript in person to the School of Graduate Studies Students Affairs office. The deadline to submit dissertations is always one month before degrees are conferred in your intended semester of graduation.
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| PREFACE | This optional section is a preliminary statement that explains the scope, intention, or background of the document. |
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Subheadings of the chapter headings are indented five spaces from the initial letter of the first line of the main heading. Only the initial letter of the first word and of other words normally capitalized in prose are capitalized.  
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When such lists are used, captions and/or legends must agree word for word with captions in the body of the work, except that lengthy captions or titles may appear in shortened form in the list, using the first few words or phrases that give an understanding of the table or figure. Page numbers must be those on which the table or a lengthy caption appears. |
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Doctor of Philosophy, Commencement, 2005
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Dissertation directed by Professor John X. Educator
Pages in dissertation, 79. Words in abstract, 331

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<tr>
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</tr>
<tr>
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<td>Should be divided into chapters or sections as indicated in the document's table of contents.</td>
</tr>
<tr>
<td><strong>Conclusion/Summary</strong></td>
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Tables, figures, and graphs must be numbered either (a) consecutively (1 through xx) throughout the text and appendixes, or (b), consecutively within each chapter or appendix, in which case they are coded to the chapter number or appendix letter (e.g., 1.1, 1.2, 2.1, A.1, A.2, etc.). The use of frames around tables and figures is optional, but their use must be consistent, i.e., frame all or frame none. Tables and figures should be inserted near, and following, their first mention in the text (as near as logically possible without creating space gaps in the text), on a separate page if they are large, or within a page of text if they fit conveniently.

It is not acceptable to group tables or figures at the end of a chapter or document. It is not acceptable to use "insert table" notations where the tables themselves should be placed. Tables or figures not critical to the understanding of the body of the text may be placed in an appendix. Tables and figures may be reduced so that the table or figure itself appears on a single page provided that the text is readable. However, if the table or figure is reduced, titles and captions must be in the same font and size as the text. Two or more small tables or figures may be grouped together on one page.

Figures, plates or tables too large to allow captions on the same page must have the captions on the preceding numbered page. No text should appear on the reverse side of a caption page, and that page number appears on any List of Tables or Figures. Multi-line titles and captions must be single-spaced. Table numbers and titles must appear above tables, and figure numbers and captions must appear below figures. The format chosen for table titles and figure captions must be used consistently throughout the document.

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If a table is longer than a single page a caption at the bottom right-hand edge of the first and succeeding pages, or at the top left-hand edge of each succeeding page must state "(table continued)", "(table XX continued)", "(table cont.)", or "(table XX cont.)"; the word "table" may be capitalized. The author must select one method and use it consistently throughout. The complete caption appears only on the first page at the top of the table.

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<th>Photographs</th>
<th>Photographs and images must be included as standard media images, Images .jpg, .tif, .gif, etc. within the body of the text.</th>
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</thead>
<tbody>
<tr>
<td>Footnotes</td>
<td>Footnotes cannot be used.</td>
</tr>
<tr>
<td><strong>BIBLIOGRAPHY</strong></td>
<td>For examples of proper bibliographic citations refer to the CBE Style Manual: A Guide for Authors, Editors and Publishers in the Biological Sciences. Single space each entry, double space between entries.</td>
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All capital letters

A Dissertation

Submitted to the Graduate Faculty of the Louisiana State University Health Sciences Center at New Orleans in partial fulfillment of the requirements for the degree of Doctor of Philosophy

in

The Department of Xxxxxxxxx

See the Catalog/Bulletin for proper name of Department

Previous degrees, institutions & years

By Alice Ann Huntington
B.S., University of Georgia, 1996
M.S., University of North Carolina, 2000
May 20XX

First name then last name

Month & year of commencement or conferral of degree

Note: Arial 10 points is used for all sample pages.

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Left margin = 1.5 “*
All text is bold and centered
Title is 1” (72 points) from top margin
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I would like to express my appreciation to Dr. Haden X. Holbrook who took me into his lab during tough times and presented me with a wonderful learning opportunity. His insight and guidance have been driving factors in my study. I would also like to express gratitude to my thesis committee members, Dr. X, Dr. Y and Dr. Z, for providing guidance and criticism that helped me throughout my work.

I would also like to thank my parents, Ruth and Howard Huntington for their encouragement and support.
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- Double space between entries
- Single space when the entry is longer than one line
- Captions must agree word for word with captions in the body of the work, except that lengthy captions or titles may appear in shortened form in the list, using the first few words or phrases that give an understanding of the table or figure. Page numbers must be those on which the figure begins, or a lengthy caption appears.
- Figures must be numbered either:
  a. Consecutively (1 through xx like in the example above) throughout the text and appendixes
  b. Consecutively within each chapter or appendix, in which case they are coded to the chapter number or appendix letter (e.g., 1.1, 1.2, 2.1, etc.)
# LIST OF FIGURES

<table>
<thead>
<tr>
<th>Figure</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
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</tbody>
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**Double space between entries**

**Single space when the entry is longer than one line**

Captions must agree word for word with captions in the body of the work, except that lengthy captions or titles may appear in shortened form in the list, using the first few words or phrases that give an understanding of the table or figure. Page numbers must be those on which the figure begins, or a lengthy caption appears.

Figures must be numbered either (a) consecutively (1 through xx like in the example above) throughout the text and appendixes, or (b), consecutively within each chapter or appendix, in which case they are coded to the chapter number or appendix letter (e.g., 1.1, 1.2, 2.1, etc.).
## LIST OF ABBREVIATIONS

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABC</td>
<td>APT binding cassette ASL</td>
</tr>
<tr>
<td></td>
<td>Airway surface liquid CF</td>
</tr>
<tr>
<td></td>
<td>Cystic Fibrosis</td>
</tr>
<tr>
<td>eGFP</td>
<td>Enhanced green fluorescent protein FACS</td>
</tr>
<tr>
<td></td>
<td>Fluorescence-activated cell sorter HFYLMP</td>
</tr>
<tr>
<td></td>
<td>His-Phe-Tyr-Leu-Pro-Met-NH&lt;sub&gt;2&lt;/sub&gt;</td>
</tr>
<tr>
<td>ROS</td>
<td>Reactive oxygen species</td>
</tr>
</tbody>
</table>
ABSTRACT

Sample text used as filler. Sample text used as filler. Sample text used as filler. Sample text used as filler. Sample text used as filler. Sample text used as filler. Sample text used as filler. Sample text used as filler. Sample text used as filler. Sample text used as filler. Sample text used as filler. Sample text used as filler. Sample text used as filler. Sample text used as filler. Sample text used as filler. Sample text used as filler. Sample text used as filler. Sample text used as filler. Sample text used as filler. Sample text used as filler. Sample text used as filler. Sample text used as filler. Sample text used as filler. Sample text used as filler. Sample text used as filler. Sample text used as filler. Sample text used as filler. Sample text used as filler. Sample text used as filler. Sample text used as filler. Sample text used as filler. Sample text used as filler. Sample text used as filler. Sample text used as filler. Sample text used as filler. Sample text used as filler. Sample text used as filler.

Title is centered and all caps
Title is 1 inch (72 points) from top margin.

The abstract may not contain graphs, tables or illustrations.

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Huntington, Alice Ann, B.S., University of Georgia, 1996
M.S., University of North Carolina, 2000
Doctor of Philosophy, Commencement, 2009
Major, Anatomy. Minor, Physiology.
Examinations of Fenestrated Endothelia
Dissertation directed by Associate Professor John Q. Educator
Pages in dissertation, 88. Words in abstract, 331

ABSTRACT

Sample text used as filler. Sample text used as filler. Sample text used as filler. Sample text used as filler.
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The special heading must be placed at the left margin (meeting margin requirements) and must be single-spaced. Check the Graduate Section of the Catalog/Bulletin for correct official titles of degrees and cite the degree correctly on both the title page and abstract. Names and document titles must also be identical on the title page, the cataloging abstract, and the examination report forms (approval sheets) signed by the student's committee. The following single-spaced formats should be used for the heading on the cataloging abstracts:

Format Requirements for Special Heading

☐ Include title page and preliminary pages in total number of pages.
☐ Give the correct name and professorial rank of the major professor as listed in the School of Graduate Studies section of the Catalog/Bulletin.
CHAPTER 1: INTRODUCTION

This page is double spaced and the first line of each new paragraph is tabbed five spaces.

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1.1 Biological Name

Biological Name is a subtopic under the introduction. In this paragraph, a bibliographic reference example [1] is used to show how this appears in the content area of the document. This paragraph also has a table. Remember that a large table may be reduced to fit within the required margins; however, the table title must be the same type and size font that is used in the rest of the document.

Table 1
Median Parameters of Spontaneous Firing Patterns

<table>
<thead>
<tr>
<th></th>
<th>Mean rate ± S.E. (spikes)</th>
<th>Range (spikes s/s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Striatum</td>
<td></td>
<td></td>
</tr>
<tr>
<td>cl2/cl2</td>
<td>6.04±1.13</td>
<td>1.18-17.08</td>
</tr>
<tr>
<td>ci1/+</td>
<td>5.86±0.75</td>
<td>1.79-13.4</td>
</tr>
<tr>
<td>LEW/Ztm</td>
<td>5.25±2.55</td>
<td>0.43-35.03</td>
</tr>
<tr>
<td>SNr</td>
<td></td>
<td></td>
</tr>
<tr>
<td>cl2/cl2</td>
<td>32.3±2.69</td>
<td>9.25-67.4</td>
</tr>
<tr>
<td>ci2/+</td>
<td>19.7±1.98</td>
<td>10.8-33.0</td>
</tr>
<tr>
<td>LEW/Ztm</td>
<td>17.44±1.36</td>
<td>9.26-27.09</td>
</tr>
</tbody>
</table>
1.2 Artificial Network Names

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1.3 General Fragmented Structure of a Complex Network as Related to the Numerous Network Components.

As presented above, if the Chapter title or any other title is longer than one line it should be single spaced.
Multi-line titles and captions must be single-spaced. Table numbers and titles must appear above tables, and figure numbers and captions must appear below figures. The format chosen for table titles and figure captions must be used consistently throughout the document.

Figure 1
Quantitative evaluation of Xx parameters of SNr neurons recorded extracellularly from circling mutants (ci2/ci2), non-circling littermates (ci2)

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CHAPTER 2: FEED FORWARD NETWORK PATTERNS

2.1 Double-Node Network

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2.2 Linear Separation of Networks

2.2.1 The Forward Descent Method

2.2.2 Learning Based on Forward Descent
BIBLIOGRAPHY


For examples of proper bibliographic citations refer to the CBE Style Manual: A Guide for Authors, Editors and Publishers in the Biological Sciences

Single space each entry, double space between entries.

The following settings in MS Word 2007 were used to format the numbered list on this page.

The page number must correspond to the number in the TABLE OF CONTENTS.
APPENDIX 1: SAMPLES OF FOREIGN NEURAL NETWORKS

If you only have one appendix, do not use a number.
APPENDIX 2: FOREIGN NETWORK STRUCTURES

First

Second

Third

Continue Arabic numbering used in the body of the dissertation.