

# THESIS AND DISSERTATION STANDARDS

7th Edition

2024

SOUTHEASTERN LOUISIANA UNIVERSITY

THE GRADUATE COUNCIL

## TABLE OF CONTENTS

## CHAPTER

I.	INTRODUCTION	
II.	LEGAL AND REGULATORY REQUIREMENTS .....	4
	Previously Published Material .....	4
	Copyrighted Material .....	4
	Research Protocols and Regulatory Compliance .....	4
	Ethical Standards .....	4
III.	FORMAT AND APPEARANCE .....	5
	General Format .....	5
	Recommended Style .....	5
	Basic Rules .....	6
	Margins .....	6
	Fonts .....	6
	Spacing .....	7
	Pagination .....	8
	Tables and Figures .....	8
	Equations .....	9
	Footnotes, Endnotes, and References .....	9
	Consistency and Matching .....	10
IV.	PRELIMINARY PAGES .....	11
	Title Page .....	12
	Copyright Page .....	14
	Committee Approval Page .....	16
	Abstract .....	18
	Dedication Page (Optional) .....	21
	Acknowledgments Page (Optional) .....	23
	Table of Contents .....	25
	List of Tables .....	28
	List of Figures .....	30
V.	BODY OR TEXT PAGES .....	32
	Body or Text .....	32
	Division into Chapters .....	32
	Division of Chapters into Sections .....	32
	Introduction .....	33
	Conclusion .....	33
	Other Formatting Pages .....	33
	Example Pages .....	34
	First Page of Chapter .....	34
	Pages with Subheadings .....	36

Pages with Equations .....	38
Pages with Tables .....	38
VI. . THE REFERENCE MATERIAL .....	40
Bibliography, References, List of References, etc.....	40
Reference List at End of Document.....	40
Reference List at End of Chapter.....	41
Appendices.....	42
VII. SUBMISSION OF THESIS OR DISSERTATION .....	44

## CHAPTER I

### INTRODUCTION

A thesis or dissertation is a formal research paper that is the culmination of months and even years of diligent research effort on behalf of a graduate student. As such, the work must be presented (published) using scholarly standards. The purpose of this manual, *Thesis and Dissertation Standards*, is to provide those standards to assist the student in organizing and presenting the results of his/her research in a scholarly manner. A student should consult with the graduate coordinator or major professor to learn of specific department and program guidelines for the thesis or dissertation also.

Southeastern Louisiana University requires students to submit theses and dissertations to ProQuest, an entity that provides electronic publication of theses and dissertations. As a result, Southeastern's theses and dissertations will reach a national audience, therefore meeting the standards in all aspects as prescribed in this document is necessary. Students should remember that theses and dissertations are checked to ensure conformity with this manual prior to final approval and publishing. In addition, all theses and dissertations must meet the highest standards of English grammar and punctuation.

Because master's theses and doctoral dissertations reach a national audience, special attention to formatting standards, publication styles, and ethical standards are paramount. The thesis and dissertation represent the degree-granting standards of a college and of Southeastern Louisiana University. The documents should be a source of pride for all involved. A student's advisory committee is responsible for judging the technical and professional competency, writing quality, and professional appearance of these documents.

All theses and dissertations must adhere to certain general standards and therefore must:

1. Be prepared in accordance with the ethical standards of scholarship and publishing.
2. Be a document with a coherent theme solving a well-defined problem.
3. Provide evidence that the candidate is competent in the discipline of study and is familiar with literature of the discipline.
4. Be written in standard English, unless the candidate's program focuses on mastery of a foreign language.

These standards are modeled after the guidelines in place at other institutions with graduate programs; therefore, the wording in this document may be similar to that used in the guidelines of other institutions.

## CHAPTER II

### LEGAL, REGULATORY, AND ETHICAL REQUIREMENTS

#### **Previously Published Material**

A student is only allowed to use in the thesis or dissertation material previously published while enrolled in the current degree program and work that is appropriately integrated into the final work.

#### **Copyrighted Material**

When substantial portions of copyrighted material, whether written or graphic, are to be included in a thesis or dissertation, ProQuest Information and Learning requires written permission of a copyright holder. The ProQuest website provides information for gaining permission of a copyright holder. A delay in processing can occur if copyright permission is not gained in advance.

#### **Research Protocols and Regulatory Compliance**

The nature of some research requires that protocols and procedures be reviewed and approved before the student initiates the work. Research involving human subjects (including surveys), animal subjects, recombinant DNA, and radioactive materials must be approved before the research can begin. Questions about human subjects' research should be directed to the appropriate academic dean.

#### **Ethical Standards**

The ethical standards commonly accepted by and adhered to by a discipline should be the guide for conducting research. Southeastern's Misconduct in Research Policy defines misconduct in research and the procedures used to investigate alleged misconduct.

The policy is located on the Southeastern website at:  
[https://www.southeastern.edu/resources/policies/policy\\_detail/misconduct\\_research.html](https://www.southeastern.edu/resources/policies/policy_detail/misconduct_research.html)

## CHAPTER III

### FORMAT AND APPEARANCE

#### **General Format**

These standards endorsed by the Graduate Council are to ensure that Southeastern Louisiana University theses and dissertations will have a consistently professional appearance. Close attention to these standards during document preparation will save time during the format review process conducted by the Office of Graduate Studies.

In cases where the format differs from the standards in this manual, a letter from the major advisor indicating the acceptability of the differences must be submitted to the appropriate academic dean for approval of the format variation before writing of the thesis or dissertation begins. A copy of the dean's approval must accompany the thesis or dissertation when submitted for the formatting review. Given the flexibility of electronic technology for editing and formatting, students should adhere to the prescribed standards when at all possible.

#### **Recommended Style**

Degree-granting units select an acceptable style. Do not confuse style with formatting; these standards refer to formatting. The degree-granting unit is responsible for ensuring that documents conform to the chosen style. If the style differs from the specific formatting established in these standards, a letter from the major advisor indicating the acceptability of the differences must be submitted to the appropriate academic dean for approval of the format variation before writing of the thesis or dissertation begins. Failure to gain approval of any deviation to these standards may delay review and approval of

the final document. A copy of the dean's approval must accompany the thesis or dissertation when submitted for the formatting review. Punctuation, spelling, and general format should be accurate and consistent.

### **Basic Rules**

Detailed instructions for formatting each part of the document can be found elsewhere in these standards along with examples, but the following rules apply throughout the thesis or dissertation.

### **Margins**

- Left margin on every page, including the title page = 1.5 inches (The extra half inch is necessary for binding.)
- Right margin on every page = 1 inch
- Bottom margin on every page = Approximately 1 inch
- Top margin on every page = 1 inch

### **Fonts**

- A ten to twelve-point font size should be used consistently throughout the document. Larger font sizes should never be used. Smaller size font may be used, if necessary, in extensive tables, formulas, Greek symbols, subscripts, superscripts, and footnotes. One standard font, such as Arial or Times New Roman, should be used consistently throughout the document, including for page numbers.



## Font Formatting Options for Various Parts of the Document

### Spacing

- Text may be left-justified or full-justified.
- All paragraphs must be indented 0.5 inches.
- Single space = no blank lines between lines of text; Double space = one blank line between lines of text; Triple space = two blank lines between lines of text.
- The body of the document should be double spaced.
- Tables may be double spaced, or single spaced with one blank line between rows. Tables and figures may be separated from text by one or two blank lines. The same spacing should be used both above and below.
- Widow or orphan lines are not permitted. These are single lines of text that appear on the page preceding or following the rest of the paragraph.
- Unnecessary white space should be avoided where possible.
- Centering – When centering text, remember that due to the 1.5-inch left margin, correctly centered text will be slightly off to the right side of the page.

### Pagination

- The title page is page number 1, but the number should not appear on the page. All other pages should include a page number. The first page of the first chapter is page number 2.
- Page numbers should be centered at the bottom of the page.
- Small Roman numerals are used for the preliminary pages. Arrange those pages in the following order: dedication; acknowledgments; table of contents; and the lists of tables, figures, plates, symbols, abbreviations, and/or nomenclature.
- Arabic numerals are used for paginating the remainder of the document, including the text, reference material, and appendices. Numbers should run sequentially from page 2 through the end of the document.

## **Tables and Figures**

- A table consists of columns of information, often in the form of numbers. A figure is any kind of graphic illustration other than a table.
- Use Arabic numerals for numbering tables and figures. Tables and figures may be numbered consecutively throughout the document (1, 2, 3, etc.) or consecutively within chapters (1.1, 1.2, 1.3, 2.1, 2.2, 2.3, etc.).
- Table numbers and titles appear above the table. Figure numbers and titles appear below the figure.
- All tables and figures, including those in the Appendix should be included in the List of Tables or List of Figures.
- Tables and figures should be mentioned in the text before being presented and each should be placed as close as possible to the text describing it.
- Text and tables/figures may appear on the same page, but tables and figures should appear before or after a complete paragraph and must not be placed within a paragraph. Tables or figures more than one-half page long may be placed on a separate page.
- More than one table or figure can be placed on a single page. Insert three or more blank lines between the two. A short, centered line may be placed between the two to further divide them.

## **Equations**

Important equations (typically those referred to in the text) should have numerical identification and should be numbered consecutively throughout each chapter, e.g. (1-1), (1-2), (2-1), (2-2), and so on. This is done to provide a shorthand method of referring back to a specific equation later on in the text.

## **Footnotes, Endnotes, and References**

Candidates should confer with their advisors regarding citation styles acceptable to their disciplines and use the designated style manuals.

- References may be numbered consecutively throughout the entire document or consecutively within each chapter.
- References may be placed at the end of a chapter or at the end of the document. The reference position must be consistent throughout the document.

- A reference to information within tables should be placed directly below the pertinent table.
- Your reference page should adhere to the specific style used by your discipline.

### **Consistency and Matching**

Formatting must be consistent throughout the document. For example, if boldface is used for one chapter title it must be used for all the other chapter titles. If one table title is centered all the other table titles must be centered, and so on. Whatever formatting is done must be done the same way throughout the document.

Entries in the Table of Contents, List of Tables, List of Figures, etc. must match exactly the corresponding entries within the body of the document—spelling, punctuation, capitalization, and so on must all be the same in both places. The page number given for each entry must match the page on which the entry appears. The student's complete name must be used on the title page, copyright page, abstract page, and wherever else it may appear. The title on the title page must match exactly the title on the committee approval page and the abstract page, and so on.

Double-check the document for consistency and matching before submitting it for format review.

CHAPTER IV  
PRELIMINARY PAGES

The preliminary pages must conform to the format specified in the following examples, unless otherwise indicated.

<u>Sequence</u>	<u>Instructions and example page</u>
Title page	12 - 13
Copyright page	14 - 15
Committee Approval Page	16 - 17
Abstract Page(s)	18 - 20
Dedication Page (optional)	21 - 22
Acknowledgments Page (optional)	23 - 24
Table of Contents	25 - 27
List of Tables	28 - 29
List of Figures	30 - 31

**Note: The title of each sample page appears within a shaded rectangle in the upper right-hand corner of each page near this manual's page number. The number at the bottom of the page represents the number of the sample page within the thesis or dissertation.**

## Title Page

1. The top margin should be 2 inches and the text should be centered both vertically and horizontally. Spacing within the title page is specified below.
2. A standard font must be used through the document. Do not use boldface, italicize, or underline on the title page; italics or underline may be used for scientific names.
3. The full title is typed in all capital letters. If the title is longer than one line, double space between the lines of the title. The lines of the title are arranged in inverted- pyramid style.
4. The author's full name must be used. The author's name must match exactly the name on the copyright, committee approval, and abstract pages.
5. All information elements must fit on the page in a visually appealing way. The actual distances between the elements will vary slightly depending on the length of the information. Minimum distance requirements are listed below:
  - a. The distance from the last line of the title to the word "By" and from the named individual to the following element should both be approximately equal.
  - b. There should be a single blank line between the word "By" and the name.
  - c. Two blank lines are left between the name of the discipline and the place.
  - d. One blank line is left between the place and the date.
6. The degree statement must match the example, with the following exceptions:
  - a. Doctoral candidates should replace "Thesis" with "Dissertation" and make other changes as necessary to reflect that the degree originates with a consortium of universities.
  - b. The correct degree and major.
7. The date is the month and year in which the degree is awarded. Acceptable months are May, August, and December. There should be no comma between month and year.
8. The title page is page 1 of the document; however, no page number is printed on the title page.

*2 inches of white space  
from top of page to title*

**Sample Title Page**

EFFECT OF ORGANOPHOSPHATE EXPOSURE ON  
CHOLESTERYL ESTER HYDROLASE

*1 blank line*

By

Matthew Allen Wilder

A Thesis Submitted to the Faculty of  
Southeastern Louisiana University  
in Partial Fulfillment of the  
Requirements for the Degree of Master  
of Science  
in Biology

Southeastern Louisiana University  
Hammond, Louisiana

December 2011

*The title page is page 1 (Arabic numeral), but the number is not printed on the page.*

### **Copyright Page**

1. The copyright page is required; however, the student is not required to formally register the copyright through ProQuest.
2. The text should be page centered (vertically and horizontally).
3. Double spacing (one blank line) is used between lines of text.
4. The copyright page is numbered with a Roman numeral i.
5. The author's name must match exactly the name as used elsewhere in the document.

**Sample Copyright Page**

Copyright by  
Matthew Allen Wilder  
2011



## Committee Approval Page

1. Ensure that the left margin is 1.5 inches.
2. All information elements must fit on the page in a visually appealing way. The actual distances between the elements will vary slightly depending on the length of the information:
  - a. The distance from the top of the page to the first line of the title will be 2 inches.
  - b. The distance from the last line of the title to the word “By” is (5 line spaces).
  - c. Insert a single blank line space between the word “By” and the name.
3. The full title is typed in all capital letters. If the title is longer than 1 line, leave a single space between each line. The lines of the title are arranged in inverted-pyramid style.
4. The formatting of the title on the committee approval page must match exactly the title page.
5. The author’s full name is centered on the page. The author’s name must match the name on the title, copyright, and abstract pages.
6. Signature lines are provided for the thesis or dissertation director, the dean of the particular academic college, and committee members. Beneath each signature line, the person’s name, title, and role(s) in approving the thesis or dissertation are listed; however, the person’s degree designations are not included. Signature lines should begin on the fourth line below previous lines of type. Only include signature lines for the individuals mentioned above.
7. All signatures must be original “pen and ink” (black or blue ink only); scanned signatures or “signed by” signatures are not acceptable. **ALL signatures must be present before the Office of Graduate Studies will accept the document for format review.**
8. The approval page is numbered with a Roman numeral ii.

Sample Approval Page

2 inches of white space  
from top of page to title

EFFECT OF ORGANOPHOSPHATE EXPOSURE ON  
CHOLESTERYL ESTER HYDROLASE

1 blank line

By

Matthew Allen Wilder

Approved:

\_\_\_\_\_  
Peter D. Smith, Ph.D.  
Professor of Biological Sciences  
(Director of Thesis)

\_\_\_\_\_  
Michael E. Tanner, Ph.D.  
Associate Professor of Biological Sciences  
(Committee Member)

\_\_\_\_\_  
Taylor M. O'Leary, Ph.D.  
Associate Professor of Chemistry  
(Committee Member)

\_\_\_\_\_  
Kelly C. Varder, Ph.D.  
Professor of Nursing  
(Committee Member)

\_\_\_\_\_  
Russell H. Sorensen, Ph.D.  
Department Head of the Department of  
Biological Sciences

\_\_\_\_\_  
Christopher E. Daniels, Ph.D.  
Dean of the College of Science and  
Technology

**Abstract Page(s)**

1. The margin at the top of the first page is 1 inch.
2. The author's full name must be used. The author's name must match the name on title, copyright, and committee approval pages.
3. The student's previous degree(s), institution(s), year of degree(s), and discipline(s) are the second entry on the abstract page. Separate multiple degrees using a semicolon.
4. The date of the degree must include the month, day and year of graduation. (Dates are found on the University's academic calendar and on the Office of the Registrar information page.)
5. If the major professor is not the dissertation director, the dissertation director's name must also be listed.
6. The title must be in all capital letters. If the title is longer than 1 line, single space between the lines. Titles more than 1 line long must be blocked as shown in the example.
7. The number of pages given for "Pages in Study" must match the page number on the last page of the document.
8. The appropriate degree must be listed.
9. Two blank lines are left between the degree line and the next line of text. Double space between the lines of the abstract.
10. The maximum length for a dissertation abstract is 350 words. The maximum length for a thesis abstract is 150 words.
11. If the discipline requires key words, two blank lines are left between the last line of the abstract and the key words. The suggested format is: Key words: key word 1, key word 2, key word 3, etc.
12. The pages of the abstract are numbered with Roman numerals iii and iv.
13. It is the sole responsibility of the student to ensure that all information in the abstract is accurate.

Name: Matthew Allen

*1 inch of white space  
is left between the top of  
the page and the first line  
on the abstract page.*

**Sample Abstract Page**

Previous degrees: B.S., Delta State University, 1977, (Biophysics)

Date of Current Degree: December 9, 2012

Institution: Southeastern Louisiana University

Major Field: Biological Sciences (Immunology)

Major Professor: Dr. Peter F. Strauss

Title of Study: THE EFFECTS OF ANDROGENS AND HIGH-FAT, LOW PROTEIN  
DIET ON LYMPHOCYTE TRANSFORMATION IN TACONIC  
SWISS MICE

Pages in Study: 187

Candidate for Degree of Master of Science

Studies recently and currently in progress are providing insight into the influence of protein deficiency on cell-mediated mechanisms of immunity. One of the ways in which these mechanisms can be assayed is the lymphocyte blastogenesis procedure.

The present investigation was designed to demonstrate the effects of high fat, high carbohydrate and low protein (G-2) diet with concurrent administration of either testosterone or methylandrostenediol on hematocrit and weight determinations and splenic lymphocyte stimulation in Taconic Swiss mice. Results of this study indicate that testosterone and methylandrostenediol may prevent perivascular cuffing of coronary arteries.

A positive correlation was found between activation of splenic lymphocyte cultures by phytohemagglutinin and the occurrence of coronary arterial perivascular

cuffing. The experimental groups (ovariectomized, hormone treated, and/or diet) receiving hormones with the G-2 diets revealed protection of coronary arteries from perivascular cuffing based on stimulation indices that approximated those of normal mice. Testosterone had a greater tendency to prevent perivascular cuffing.

Key words: G-2 diets, lymphocyte transformation, perivascular cuffing

**Dedication Page (optional)**

1. A one-inch margin is left between the top of the page and the first line of text.
2. The word DEDICATION is typed in all capital letters and centered horizontally on the page. Do not use boldface, italics or underline.
3. One or two blank lines are left between DEDICATION and the next line of text.
4. If included, the dedication will be page v.

*1 inch of white space  
from top of page to title.*

DEDICATION

**Sample Dedication Page**

*1 or 2 blank lines*

I would like to dedicate this research to my parents, Frederick and Hanna Wilder,  
and my brother Jason.

### **Acknowledgments Page (optional)**

1. A one-inch margin is left between the top of the page and the first line of text.
2. The word ACKNOWLEDGMENTS is typed in all capital letters and centered horizontally on the page. Do not use boldface, italics or underline.
3. One or two blank lines are left between ACKNOWLEDGMENTS and the next line of text.
4. If the dedication page is included, this page will be vi. If the dedication page is omitted, this will be page v.



## ACKNOWLEDGMENTS

The author expresses his sincere gratitude to the many people without whose assistance this dissertation could not have been completed. First of all, sincere thanks are due to Dr. Peter F. Strauss, my committee chairman, for his magnanimity in expending time and effort to guide and assist me throughout the intricacies of the master's program and the thesis process. Expressed appreciation is also due to the other members of my thesis committee, namely, Dr. Bailey R. Keenan, Dr. Taylor M. O'Leary, and Dr. Kelly A. Darden, for the invaluable aid and direction provided by them. Finally, the author would like to thank Dr. Herbert Hubbell of the University of North Carolina for making available the specially formulated G-2 diet used in this study.

## Table of Contents

The Table of Contents must conform to the format specified in the example that follows, unless otherwise indicated.

1. A one-inch margin is placed between the top of the page and the first line of text.
2. The words TABLE OF CONTENTS are typed in all capital letters and centered horizontally on the page. Do not use boldface, italics or underline for the words TABLE OF CONTENTS or other information in the contents. Italics or underline may be used for scientific names.
3. One or two blank lines are left between TABLE OF CONTENTS and the next line of text.
4. Major divisions should be in all capital letters and aligned with the left margin.
5. Page numbers in the table of contents must match page numbers in the document. Page numbers should be aligned with the right margin.
6. Leave one blank line between the word Chapter and the title of the first chapter.
7. Chapter titles and headings must match the capitalization, wording, and punctuation of the titles and headings in the body.
8. The second line of titles and headings is indented 0.5 inches. Second-level (and subsequent headings) are indented at least 3 spaces.
9. Include dot leaders between the end of each entry and its page number.
10. On contents pages other than the first page, 1-inch of white space is left at the top.
11. Appendix designations, titles, and page numbers must exactly match the document.
12. The appropriate small Roman numeral(s) should be used for the page number(s).

*1 inch of white space*

*1 or 2 blank lines*

*1 blank line*

**Sample Table of Contents**

TABLE OF CONTENTS

DEDICATION ..... ii

ACKNOWLEDGMENTS ..... iii

LIST OF TABLES ..... v

LIST OF FIGURES ..... vi

CHAPTER

I. INTRODUCTION ..... 2

    Background ..... 2

        Cell-mediated immunity ..... 3

        G-2 Diets ..... 4

    Statement of the Problem ..... 5

    Objectives of the Study ..... 8

    Justification and Usefulness of the Study ..... 12

    Scope and Limitations of the Study ..... 13

    Summary and Plan of Presentation ..... 14

II. LITERATURE REVIEW ..... 16

    Review of Cell-Mediated Immunity and Disease ..... 16

        A Brief History of Cell-Mediated Immunity ..... 17

        Diseases with Cell-Mediated Associations ..... 24

        Cardiovascular Disease and Cell-Mediated Immunity ..... 30

    Review of Diets and Disease ..... 31

        Low Fat, High Carbohydrate, Low Protein Diets ..... 31

        Neural Networks Background ..... 32

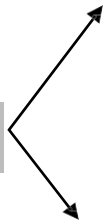
        Types of Neural Network Models ..... 33

        The Use of Neural Networks in Forecasting ..... 35

    Penalty Costs ..... 36

    Conclusion ..... 37

*1 inch of white space*



III. METHODOLOGY ..... 38

    Animals ..... 39

    Experimental Diet ..... 41

    Ovariectomies ..... 44

    Animal Groups and Hormone Injections ..... 47

        Testosterone and Methylandrostenediol ..... 47

    Media and Other Biological Reagents ..... 51

    Lymphocyte Transformation Assay..... 52

    Hematocrit Determinations ..... 59

IV. RESULTS ..... 60

V. DISCUSSION AND CONCLUSIONS..... 64

BIBLIOGRAPHY ..... 71

APPENDIX

    A. PRELIMINARY EXPERIMENTS TO DETERMINE ASSAY CONDITIONS  
        ..... 75

    B. ALTERNATE METHODS FOR DETERMINING CELL-MEDIATED  
        FUNCTION..... 76

## List of Tables

The list of tables must conform to the format specified in the example that follows, unless otherwise indicated:

1. A one-inch margin is placed between the top of the page and the first line of text.
2. The words LIST OF TABLES are typed in all capital letters and centered horizontally on the page. Do not use boldface, italics, or underline for information in this list; italics or underline maybe used for scientific names.
3. One or two blank lines are left between LIST OF TABLES and the next line of text.
4. Table numbers, titles, and page numbers in the LIST OF TABLES must exactly match those in the document (including those in the Appendix).
6. The second line of table titles is indented 0.5 inches.
7. Single space titles longer than one line and insert one blank line between table titles.
8. Include dot leaders between the end of each entry and its page number.
9. On LIST OF TABLES pages other than the first page, a 1-inch margin is left at the top.
10. The appropriate small Roman numeral(s) should be used for the page number(s).

## LIST OF TABLES

4.1	Parameters for Optimal Individual Forecasting Models for Randomly Simulated Data .....	68
4.2	Weights for Individual Forecasts for Case #1 .....	80
4.3	Weights for Individual Forecasts for Case #2 .....	81
4.4	Weights for Individual Forecasts for Case #3 .....	82
4.5	Weights for Individual Forecasts for Case #4 .....	83
4.6	Summary Statistics of Forecast Errors for Case #1 .....	84
4.7	Summary Statistics of Forecast Errors for Case #2 .....	84
4.8	Summary Statistics of Forecast Errors for Case #3 .....	85
4.9	Summary Statistics of Forecast Errors for Case #4 .....	85
4.10	Shapiro-Wilk Normality Test for Case #1 Forecasts.....	87
4.11	Shapiro-Wilk Normality Test for Case #2 Forecasts.....	87
4.12	Shapiro-Wilk Normality Test for Case #3 Forecasts.....	88
4.13	Shapiro-Wilk Normality Test for Case #4 Forecasts.....	88
4.14	Correlation Coefficients for Case #1 .....	90

## List of Figures

The List of Figures must conform to the format specified in the example that follows, unless otherwise indicated.

1. There is one inch of white space between the top of the page and the first line of text.
2. The words LIST OF FIGURES are typed in all capital letters and centered horizontally on the page.
3. One or two blank lines are left between LIST OF FIGURES and the next line of text.
4. Figure numbers, titles, and page numbers in the LIST OF FIGURES must exactly match those in the document (including those in the Appendix).
5. The second line of figure titles is indented 0.5 inches.
6. Figure titles longer than one line are single spaced and one blank line is left between figure titles.
7. Include dot leaders between the end of each entry and its page number.
8. On LIST OF FIGURES pages other than the first page, a 1-inch margin is left at the top.
9. The appropriate small Roman numeral(s) should be used for the page number(s).

LIST OF FIGURES

1.1 Procedure Followed in Achieving the Objective..... 11

2.1 Overall MAPE as a Function of Number of Methods ..... 28

3.1 Description of the Data Generating Process..... 44

3.2 Neural Network for Combining Forecasts ..... 53

3.3 Modular Neural Network ..... 54

3.4 Graphic Description of Forecasted Data Sets..... 58

4.1 Case #1 Data Summary ..... 64

4.2 Case #2 Data Summary ..... 65

4.3 Case #3 Data Summary ..... 66

4.4 Case #4 Data Summary ..... 67

4.5 MNN Architecture..... 75

4.6 Modular Neural Network Training Procedure ..... 77

4.7 Composite Model Comparison for Case #1 ..... 101

4.8 Composite Model Comparison for Case #2 ..... 102

4.9 Composite Model Comparison for Case #3 ..... 103

4.10 Composite Model Comparison for Case #4 ..... 104



## CHAPTER V BODY OR TEXT PAGES

### **Body or Text**

The text is divided into chapters including, at a minimum:

1. An introduction, which is considered the first chapter
2. Discussion of the research, which may be presented in 1 or more chapters
3. A conclusion
4. A list of references, which may be presented at the end of each chapter or at the end of the document

### **Division into Chapters**

Each chapter must be labeled with the word CHAPTER followed by either an Arabic or Roman numeral. Numeral style should be consistent throughout the document. Following the CHAPTER and on a different line should be a descriptive title. The descriptive title indicates the subject content of the chapter and should readily communicate what is being presented. Instructions and an example are provided on pages 34 and 35, respectively. All other chapters should follow this same format. Chapters may be materials that will be stand-alone publications; however, the format must adhere to the standards presented in this manual.

### **Division of Chapters into Sections**

Chapters may be divided with headings and subheadings. Each level of heading must be formatted differently and applied consistently throughout the document.

## **Introduction**

A preface may precede the introduction; however, there typically is no need to include one. An overall introduction is required even if subsequent chapters have their own introductions. The overall introduction should not be a recapitulation of individual chapter introductions. Its function is to explain how the individual chapters work together to form the cohesive document described in the publications policy statement.

The introduction must be the first chapter. The general chapter title (such as CHAPTER 1) in all capitals must be at the top of the page and centered beneath a 2-inch margin (white space); the word INTRODUCTION is one blank space below the CHAPTER. The text begins below INTRODUCTION after one or two blank lines.

## **Conclusion**

The conclusion explains how the preceding chapters work together to solve the problem outlined in the introduction. The general chapter title in all capitals, e.g., CHAPTER IV, must be at the top of the page and centered beneath a 2-inch margin; the word CONCLUSION, or similar descriptive title, is placed one blank line of space below the chapter title. The text begins below the word CONCLUSION after one or two blank lines of space.

## Example Pages

### *First Page of Chapter*

1. The left margin must be 1.5 inches. The right and bottom margins must be 1 inch.
2. The general title, i.e., CHAPTER, should be centered and 1 inch from the top edge of the page. The chapter number is placed on the same line immediately after CHAPTER. All capital Roman or Arabic numerals are used.
3. Double space (one blank line) between the CHAPTER number and the descriptive title.
4. The descriptive title is centered, and all capitals are used. If the title is longer than one line, double space the title. The lines of the title are arranged in the inverted-pyramid style.
5. Chapter numbers and titles may be boldfaced; however, students should follow the style requirements for their department.
6. One or two blank lines are left between the descriptive title and the text.
7. The page number is centered at the bottom. The first page of CHAPTER 1 is page 2 because the title page of the document is page 1.

*1 inch of white space*

CHAPTER I

*1 blank line*

INTRODUCTION

*1 or 2 blank lines*

A competent immune system in the animal organism is dependent upon the proper functioning of its component cells which have carefully defined immunologic functions and are under precise control in the healthy subject. These cells include B and T lymphocytes and macrophages. However, within the lymphoid cell population, 0.5 – 2.0% are considered to be “null” cells or non-T, non-B cells. B cells synthesize immunoglobulins that contribute the humoral limb of the immune response. The cell-mediated response generated by T cells is responsible for lymphokine production and protection against some bacteria, viruses, and fungi. Macrophages are capable of engulfing foreign organisms and particulate antigens, degrading the material, and presenting it to lymphoid cells. Those few lymphoid cells known as “null” cells are believed to act as killer cells responsible for cytotoxicity and immune surveillance associated with tumor immunity.

*The first page of the first chapter is page number 2 (Arabic numeral) for the entire document.*

### *Pages with Subheadings*

1. Chapters may be divided into sections with descriptive headings.
2. Departmental style guidelines must be used in selecting heading formats. The sample pages show some acceptable methods of formatting headings. Other formats are acceptable if applied consistently.
3. Detailed outline numbering may be used as a method of varying the format of each heading. In detailed outline numbering, a section number is formed by an Arabic chapter numeral, a period, higher-level section numbers separated by periods, and finally the current subsection number. For example, 3.2.4 denotes Chapter III, the 2<sup>nd</sup> section within Chapter III, and the 4<sup>th</sup> subsection within section 3.2.
4. Each level of heading must have a different format and the format of a particular level must be consistent (match) throughout the document. For example, 2<sup>nd</sup> level headings must match all other 2<sup>nd</sup> level headings but must be different from other level or sublevel headings. Headings may be centered or aligned with the left margin, or as required by the discipline. They may be plain text, boldfaced, italicized, underlined, or any combination of those 3 options. They may not be in a different font or font size or all capitals.
5. If the style guide requires it, headings may begin the first line of a paragraph instead of being on a separate line. Headings on the first line of a paragraph must be boldfaced, italicized, underlined, or some combination of the three in order to differentiate from the beginning of the paragraph.
6. Three levels of heading are shown on the sample pages. The word CHAPTER is considered the first level heading. All other headings within a chapter are considered subheadings. Each level has a different format:
  - a. First level subheading – Chapter Title (not shown on example page, all capital letters)
  - b. Second level subheading – example page: Methodology and Approvals
  - c. Third level subheading – example page: Mitogens
  - d. Fourth level subheadings – example page: Phytohemagglutinin (PHA), Concanavalin-A (Con-A)

Translucent cages were used to house mice in groups of five. The cages were fitted with stainless steel covers and contained San-i-cel® bedding.

#### Methodology and Approvals

Methods used in conducting this research were standard procedures that are currently implemented in the investigator's laboratory. All procedures using animals were approved by the Institutional Animal Care and Use Committee.

#### Mitogens

RPMI-1640 medium to prepare mitogens did not contain heat-inactivated fetal calf serum, but did contain antibodies and L-glutamine.

##### *Phytohemagglutinin (PHA)*

“Leucoagglutinin,” highly purified extract from *Phaseolus vulgaris*, was obtained as a freeze-dried powder (Pharmacia Fine Chemicals, Piscataway, NJ). Each 5 mg vial was reconstituted by adding 5 ml of sterile distilled water and stored at 4°C. RPMI-1640 was used to dilute the PHA stock to the dose response optimum of 10.0 µg/ml prior to use.

##### *Concanavalin-A (Con-A)*

Con-A, an extract of the jack bean (*Concanalia ensiformis*), was obtained as a lyophilized product (Pharmacia Fine Chemicals, Piscataway, NJ) and stored at 4°C. Prior to use, Con-A was diluted with RPMI-1640 to a dose response optimum of 10 µg/ml prior to use. The final concentration 1.0 µg/well (0.1 ml/well).

### *Pages with Equations*

1. Equal line spacing is maintained on pages with equations or symbols.
2. An equation editor should be used for more complex equations.
3. Equal signs should be vertically aligned when several equations appear on the page.
4. Important equations should be numbered consecutively throughout the chapter. Equation numbers should be right-justified. Equation numbers should be the chapter number and the sequential number of the equation, e.g., (4-1), (4-2), (4-3), etc.

### *Pages with Tables*

1. A standard font must be used throughout the document. Smaller fonts may be used within tables if needed. Boldface and italics may be used within tables (examples on page 42). Students should follow departmental requirements regarding the use of boldface and italics.
2. Tables may be numbered consecutively throughout the document (1, 2, 3, etc.) or consecutively within chapters (1.1, 1.2, 1.3, 2.1, 2.2, 2.3, etc.). Do not include a period after the table number and before the table title.
3. Tables should be centered horizontally on the page. Table numbers and titles appear above tables. Table numbers and titles may be centered (examples on pages 42 and 43) or left-aligned and blocked (example on page 44). Table numbers and titles may not be boldfaced, italicized, underlined or in all capital letters. All table titles must be formatted consistently throughout the document.
4. Tables more than  $\frac{1}{2}$  page long may be placed on a separate page (example on page 42). Unnecessary white space should be avoided where possible.
5. Tables less than  $\frac{1}{2}$  page long may be placed on the same page as text. One or two blank lines are left between the table number and text above. One or two blank lines are left between the table and text below (example on page 44). The same spacing should be used both above and below. Tables should have a top and bottom border, at a minimum (example page 43).
6. Tables that will not fit on 1 page may be continued onto subsequent pages with the continuation noted above the table on the next page (e.g. Table 5 continued).
7. Two or more short tables should appear on the same page to avoid unnecessary white space (example on page 45). Insert three or more blank lines between the two. A short, centered line may be placed between the two to further divide them.

8. Tables may be placed in landscape orientation. The page number must still be placed at the bottom center as though the page is in portrait orientation (example on page 46). The table number and title are oriented to the left, the binding side of the document.
9. Tables may have superscript numerals or alphabetic symbols to designate footnotes. Superscript symbols may be smaller than the font size used in the document if they are easily readable (examples on pages 42-46). All information footnoted to a table must be designated with a superscript number or alphabetic symbol. The actual footnotes may be in a smaller font size if they are easily readable.



## CHAPTER VI

### THE REFERENCE MATERIAL

The reference material document consists of a required bibliography or list of references, and optional appendices.

#### **Bibliography, References, List of References, etc.**

Whether directly quoting a work or reference, a listing of the sources must be included in the document. The style of the discipline will dictate how citations are listed. (Sims Library has an online guide with information about many of the different styles in use around the University: <http://selu.libguides.com/citing>.) The listing may appear at the end of each individual chapter and/or as a general listing at the end of the document. When a chapter is planned to be published as a stand-alone manuscript, the listing of references is usually located at the end of the chapter, for ease of future publication. Listing references at the end of the entire document is preferred if it does not conflict with discipline requirements.

Select one method and follow the appropriate instructions.

#### ***Reference List at End of Document***

1. All pages should have at least a 1-inch top margin, a 1.5-inch left margin, a 1-inch right margin, and 1-inch bottom margin.
2. The page heading must be in all capitals and centered. One or two blank lines are left between the heading and the first entry. The wording of the heading (BIBLIOGRAPHY, REFERENCES, WORKS CITED, etc.) is determined by the style used by the department. Common examples are shown on the sample pages.

3. Citation formatting is determined by the style used by the department; the appropriate style guide should be consulted.
4. Page numbers are centered at the bottom.

### *Reference List at End of Chapter*

1. The first page should have at least a 1-inch top margin, a 1.5-inch left margin, a 1-inch right margin, and 1-inch bottom margin. All other pages should have a 1.5-inch left margin and 1-inch top, right, and bottom margins.
2. Start the reference materials on a new page rather than on the same page as the last line of the chapter.
3. The format and wording of the heading is determined by the style used by the department.
4. Citation style is determined by the style used by the department. The appropriate style guide should be consulted.
5. Double space between each entry. Single-spacing is used within entries.
6. Page numbers are centered at the bottom.

## Appendices

Reference materials that are not absolutely necessary to the text are often grouped in an appendix or in appendices. If used, an appendix generally follows immediately after the last chapter of the text. However, the bibliography or references may precede the appendix.

Each appendix is preceded by a divider sheet identifying the appendix by letter and including the title of the appendix. All text should be centered horizontally and vertically on the page. If the title requires more than 1 line, the title should appear in inverted-pyramid order.

If the information to be appended dictates more than 1 appendix, the multiple appendices are designated APPENDIX A, APPENDIX B, etc. Each appendix with its title must be listed separately in the table of contents as a subdivision under the heading APPENDIX or APPENDICES.

Tables or figures appearing in an appendix are identified as tables or figures, are numbered consecutively, and appear in the list of tables or figures in the preliminary pages. Appendix tables or figures may be identified by the letter of the appendix and respective table or figure number. For example, a table in Appendix C may be identified as Table C.1.

Each appendix must have an appendix divider (title) page formatted as follows:

1. All text on the appendix divider (title) page is page centered (both vertically and horizontally). The left margin should be 1.5 inches. The right margin should be 1 inch.
2. The word APPENDIX in all capital letters appears on the first line. If more than one appendix is used, they should be designated as APPENDIX A, APPENDIX B, etc.

3. One blank line is left between the word APPENDIX and the appendix title.
4. The appendix title is typed in all capital letters. If the title is longer than one line, double space between the lines of the title and the lines are arranged in inverted- pyramid style.
5. The page number is centered at the bottom.

The appendix contents are formatted as follows:

1. Margins for appendix pages should be identical to text pages, i.e., 1.5-inch left margin and a 1-inch margin on top, right, and bottom.
2. Tables and figures must be numbered. Tables and figures must be included in the List of Tables and List of Figures.
3. Appendices frequently include material such as IRB letters, computer code, or surveys that cannot be reformatted. Such material may be single spaced and may use a different font than the rest of the document.
4. The page number is centered at the bottom. An example is on the following page.

## CHAPTER VII

## SUBMISSION OF THESIS OR DISSERTATION

Deadlines for submission of documents for review by the Office of Graduate Studies (OGS) staff are published on the Graduate Studies web site and the Graduate Studies Academic calendar; these deadlines cannot be waived. If possible, students are encouraged to submit the thesis/dissertation for format review prior to the deadline. To meet the first submission deadline (the first review of the document), the student must submit a complete copy of the document, including the committee approval page with all signatures in place. Partial documents will not be accepted. To meet the final submission deadline (a document that has been reviewed and given approval pending all corrections are made), the student must have made all corrections, uploaded a final, formatted copy to ProQuest, and submitted a pdf copy to OGS by email at [graduatestudies@southeastern.edu](mailto:graduatestudies@southeastern.edu). The following is the sequence from first submission of the thesis or dissertation to the OGS to final submission of the electronic version to ProQuest:

1. Submit one electronic copy (pdf) of the thesis or dissertation to [graduatestudies@southeastern.edu](mailto:graduatestudies@southeastern.edu). A copy of the committee approval page, complete with required signatures, must accompany the thesis or dissertation before it will be accepted for review.
2. You will be notified when the initial formatting review is complete and have the opportunity to meet with a reviewer, if necessary.
3. Correct all formatting errors and, if necessary, submit corrected copies to the OGS.
4. Once approval has been granted by the OGS, submit thesis or dissertation in electronic form to the UMI ETD Administration site (ProQuest). Submission to ProQuest involves the following steps:
  1. The Southeastern Louisiana University web site address to access the ETD database is [www.etdadmin.com/selu](http://www.etdadmin.com/selu).
  2. Select “submit” under the student or “Ready to begin?”
  3. Enter the authentication information and create an account (or log in if an account has already been created). Remember the account information; no one else can retrieve user IDs and/or passwords.
  5. Complete the online forms using the spelling, punctuation, and capitalization that will create the desired appearance in the Electronic Thesis and Dissertation database.
  6. Choose “Browse” to locate the needed files, select one file at a time. 6. Choose “Upload Files” to copy the files onto the ETD server.

If there are formatting or other submission errors a correction list will be sent to the student via email. The student must return to the original word processing document, correct errors, recreate the PDF file, and resubmit via the ETD database. An email will be sent to the student after all requirements have been satisfied and the thesis or dissertation has been accepted for electronic submission.

While the student retains copyright, the student may choose to have ProQuest register the copyright with the United States Copyright Office. The optional copyright fee pays for ProQuest to file an application of claim of your copyright with the United States Copyright Office. For more information about copyright, see: [http://www.proquest.com/en-US/products/dissertations/submitted\\_authors.shtml](http://www.proquest.com/en-US/products/dissertations/submitted_authors.shtml), and the U.S. Copyright Office's Frequently Asked Questions About Copyright: <http://www.copyright.gov/>. All fees are the responsibility of the student.

Students may wish to have copies of their thesis or dissertation bound. ProQuest and other businesses offering binding, such as Office Depot, will provide this service for a fee.