

CLU MS Clinical Psychology Thesis Handbook

Jamie Bedics, PhD, ABPP

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Chapter 1

Goal of the Handbook

The goal of this handbook is to provide students with the information needed to successfully complete the master's thesis in the MS in Clinical Psychology Program (MSCP) at California Lutheran University (CLU). The manual should be understood as a supplement to the broader policies and procedures defined by the program and university.

1.1 Scholarly Research

Scholarly research requires the skills of inquiry which must be demonstrated by all students. As a participant in research activities at CLU, the University expects you to develop the abilities to:

1. create or contribute empirical knowledge to the existing body of information in a discipline;
2. carryout systematic inquiry;
3. use tools of research including analyzing existing research, implementing research designs, using and/or developing instrumentation, employing appropriate methods of data analysis, and handling the logistics of conducting a research study;
4. work with faculty or other professionals on a research project;
5. use scholarly writing techniques.

Research may be a thesis or an independent research project. While both are important contributions to the body of knowledge in a discipline, they have different purposes as described in the following sections.

1.2 Comprehensive Exam

By default, students entering the MSCP program are required to complete the comprehensive exam. Students can, however, choose to *opt out* of the comprehensive exam and instead complete a thesis.

What is the comprehensive exam?

- A closed book essay test that covers all the material studied during the course of the MSCP program.
 - The test is offered at the end of the spring semester during the second year.
 - The exam consists of a morning session (9AM-Noon) and an afternoon session (1PM-4PM).
 - During each session, students choose to respond to 3 of 5 questions.
 - Instead of credits, students pay a comprehensive exam fee during the semester they take the exam.
 - Students *do not* have to take PSYC 565, Research Practicum, in the fall and can instead choose an additional elective during their second year in the program.
 - Students do not take PSYC 566, Thesis, in the spring of their second year.
-

1.3 Thesis

The thesis is the result of an original empirical investigation that creates new knowledge within a discipline. It solves a problem related to lack of knowledge and is generally composed of the following elements:

1. identification of a problem caused by lack of knowledge;
2. background and literature review of existing information about the problem;
3. methods to be used for obtaining the needed knowledge;
4. resulting new knowledge;

5. interpretation of the new knowledge.
6. transparent and open sharing of materials and results via pre-registration and the open science framework

Tasks:

- Students complete all the requirements outline in this manual
 - Students enroll in PSYC 565, Research Practicum, during the fall of their second year
 - Students enroll in PSYC 566, Thesis, during the spring of their second year
-

1.4 Pros and Cons: Thesis Vs. Comps

Thesis “Pros”

- Students gain a high degree of expertise and mastery in the particular area under study.
- The thesis timeline creates accountability and structure in developing students’ research project.
- Doctoral programs might look favorably towards a completed thesis that demonstrates students ability to complete an independent research project.
- Doctoral programs that require a thesis might waive the thesis requirement based on students’ completed thesis at CLU.
- Students can have the thesis bound into a book.

Thesis “Cons”

- Despite the structure offered through coursework, the thesis requires a considerable amount of work and self-discipline and the stress associate with this extra work.
 - Students take an extra 3-units (PSYC 566) in the spring of their second year for a total of 40-units versus 37-units for the comprehensive exam option.
-

Comps “Pros”

- A review sheet is provided to help focus student's efforts to study.
- The exam is done in a day.
- Questions that are not adequately answered can be remitted before "failing."
- The pressure to meet thesis requirements, every semester, is removed.
- Students can still complete an **research project** (see next section) which would allow the first three *thesis pros* to be achieved.
- Students choose a 3-credit elective during their second year.
- The entire program is 37-units versus 40-units with the thesis option.

Comps "Cons"

- A 6-hour, closed book, essay test can be stressful and exhausting.
- The research project could not be as structured as the thesis option.

1.5 Research Project Option

Research Project + Comprehensive Exam

Students can complete their own independent research project, identical to the thesis, but without the coursework (PSYC 565 & PSCY 566). There are two scenarios where this can occur:

1. A student can decide, from the beginning of the program, that they want to avoid the pressure and extra work of the thesis requirements but use the program to work on an research project. They could take PSYC 565 in the fall of their second year but will not take PSYC 566 during the spring.
2. Students might attempt the thesis but, for a variety of reasons, fall behind and be removed from or quite the thesis track.

In both of these scenarios, students are required to take the comprehensive exam and pay the comprehensive exam fee, in order to graduate. The student can, however, continue to work on their independent research project but not for credit.

Chapter 2

Thesis Checklist

Students who wish to pursue the thesis option are required to meet with Dr. Bedics at the end of every semester in order to review their progress according to the following timeline. Students who miss any of the following steps are removed from the thesis option and will be required to complete the comprehensive exam.

	Task	Date Due	Year	Finished
1.	Thesis Topic Approved	October 1st	First Year	<input type="checkbox"/>
2.	Setup OSF	October 1st	First Year	<input type="checkbox"/>
3.	Literature Review Draft Psych 564	December 15th	First Year	<input type="checkbox"/>
4.	Academic Good Standing	December 15th	First Year	<input type="checkbox"/>
5.	Method Section Draft	May 1st	First Year	<input type="checkbox"/>
6.	Literature Review Revision	May 1st	First Year	<input type="checkbox"/>
7.	Academic Good Standing	May 15th	First Year	<input type="checkbox"/>
8.	Committee Assignment	June 30th	Summer	<input type="checkbox"/> Chair <input type="checkbox"/> Reader
9.	Academic Good Standing	July 3rd	Summer	<input type="checkbox"/>
10.	Enroll in PSYC 565	August 1st	Second Year	<input type="checkbox"/>
11.	Committee Approval of Proposal	October 1st	Second Year	<input type="checkbox"/>
12.	IRB Submitted	November 1st	Second Year	<input type="checkbox"/>
13.	Academic Good Standing	December 15th	Second Year	<input type="checkbox"/>
14.	Enroll in PSYC 566	December 15th	Second Year	<input type="checkbox"/>
15.	Complete Draft to Dr. Bedics	May 1st	Second Year	<input type="checkbox"/>
16.	Committee Approval of Final	May 10th	Second Year	<input type="checkbox"/> Chair <input type="checkbox"/> Reader
17.	OSF Approval	May 1st	Second Year	<input type="checkbox"/>
18.	Thesis Commons	May 15th	Second Year	<input type="checkbox"/>
19.	Thesis Binding	Optional	Second Year	<input type="checkbox"/>
20.	GitHub Blog	Optional	Second Year	<input type="checkbox"/>
21.	Shiny App	Optional	Second Year	<input type="checkbox"/>

2.1 Thesis Topic

Defining the Problem Area

The general thesis topic is required to be selected during the beginning of the first semester of the first year. The thesis topic, does not, however, determine the hypotheses, methodology or general approach taken by the student to understand the problem (e.g. experimental, quasi-experimental, meta-analytic methods). It would be premature for a student to define a hypothesis in the first year when their understanding of the topic area is just beginning. Hypotheses are typically developed after the first year of study.

Due: October 1st, First Year

2.2 Open Science Framework

Creating a transparent and reproducible workflow

OSF is repository that allows you to transparently share your work with the larger scientific community. During the course of the program, you will be using the OSF to organize your thesis and other independent research projects. Instructions for setting up an OSF project can be found [here](#) and will be reviewed with Dr. Bedics at your first advising meeting.

Due: October 1st, First Year

2.3 Literature Review

Understanding the Problem

The development of the literature review begins during the fall of the first year during PSYC 564 Advanced Research Methods. The literature review will become the “introduction” section of the final thesis paper. The literature review demonstrates the student’s mastery of the literature surrounding the *problem* to be addressed by the thesis.

Initial drafts, such as that from PSYC 564, are 10-12 pages in length. The development of the literature review is, however, ongoing throughout the two years of the program until the final draft is submitted on May 1st of the second year.

The typical length of a *complete* literature review is between **20-40 pages** long but there is no maximum length.

Due: December 15th, First year (First Major Draft); May 15th, end of first year (Second Major Draft); May 1st, end of second year (Final Draft)

2.4 Method Section

Solving the Problem

The method sections defines the procedures of the thesis. The method section consists of the participant selection, selection of methods of measurements or materials, and the procedure. The method section can be worked on in PSYC 552 Psychometrics during spring of the first year and is finalized during PSYC 565 in the fall of the second year.

Due: May 1st, First Year (First Draft)

2.5 Committee Assignment

Committee members are faculty or experts in the field that support the students work on the thesis. Students work with the program director to find the most appropriate committee members to support their research project.

Please see the **Thesis Committee** section of this handbook.

Due: June 30th, Summer after First Year

2.6 Committee Approval of Proposal

During the summer following the first year, committee members read the literature review and method section and provide a general statement of approval to Dr. Bedics. Based upon this approval, students are allowed to progress to the *thesis track*. The rest of the thesis process is guided through coursework including PSYC 565 Research Practicum in the fall of the second year and PSYC 566 Thesis in the spring of the second year.

Due: October 1st, Second Year

2.7 Academic Good Standing

Academic good standing refers to maintaining a GPA above a 3.0 throughout the entire program and acting consistently with all policies and procedures defined by the program (see Program Handbook) and university (see university policy and procedures). Any student who receives below a B- in any course is not allowed to complete the thesis for course credit and partial fulfillment of the degree.

Due: Every semester

Chapter 3

Thesis Committee

Committee Membership

The committee is composed of a Chair and a Reader. Their roles are described below as is the process for finding and selecting committee members.

Committee Chair

The chair must have *content knowledge* of the area under investigation for the project or thesis. For example, if the thesis is on schizophrenia then the chair must have extensive knowledge of schizophrenia. The chair must be a part-time or full-time faculty member at CLU. The chair must be chosen with the approval of the Program Director, Dr. Bedics. There can be exceptions to the above criteria with the approval of Dr. Bedics.

Committee Reader

The reader must have either content knowledge or *methodology knowledge* of the area under investigation for the project or thesis. For example, if the thesis is on schizophrenia and utilizes an experimental design the the reader can either have knowledge of schizophrenia **or** knowledge of the experimental methods proposed. The reader can be a part-time or full-time faculty member at CLU or a professional in the community with at least a Master's degree that as the aforementioned expertise. The reader must be chosen with approval of program advisor and thesis Committee Chair. Exceptions to the above criteria can be made pending approval by Dr. Bedics.

3.1 Finding a Committee

For many faculty, being on a thesis committee is a lot of work and they are often reluctant to join a committee. Consequently, how you approach faculty is very critical to your success. Dr. Bedics will walk you through much of the process.

1. Identifying Potential Faculty

Search the CLU website for potential faculty that could contribute to your idea. Look at faculty interests in graduate psychology, undergraduate psychology, as well as other departments at CLU. You could also identify faculty at other universities that might serve on the committee. Once you identify potential committee members, please email Dr. Bedics to review.

2. Foot-in-the-Door

You will first introduce yourself to faculty through email. **Do not ask them to join your committee** in your first email. Instead, ask them if they have time to answer questions about your project. If they don't have time or incentive to do this simple task then they will not be willing to be on your committee. The foot-in-the-door strategy also allows you to get some feedback even if they are not willing to be on your committee.

Here is a properly formatted and professional email using the foot-in-the-door strategy:

Dear Dr. ###,

My name is STUDENT and I am currently developing my master's thesis project at California Lutheran

Thank you for your time and consideration.

Sincerely,

First Name Last Name

If they reply, and our positive, then you it is your responsibility to be flexible with *your* time. Also, never ask for an appointment in the same week.

3. Requesting Committee Membership – If the initial meeting goes well then Dr. Bedics will email the faculty member to discuss the role of the chair and reader.

3.2 Working with your committee

The committee will be most successful if you establish clear expectations of when you will talk or email with each other. Clearly established expectations will prevent you from emailing *too little* or *too much*. Establish the following:

- Make a clear statement that you would like to be mindful of their time and not approach them too much nor too little.
- How often would they like to look at your work?
- How often would they like to talk/video conference?

It is best to suggest *fewer* meetings, perhaps one at the beginning and one at the end of the semester. You will have more meetings with your chair than your reader.

Chapter 4

Coursework Relevant to the Thesis

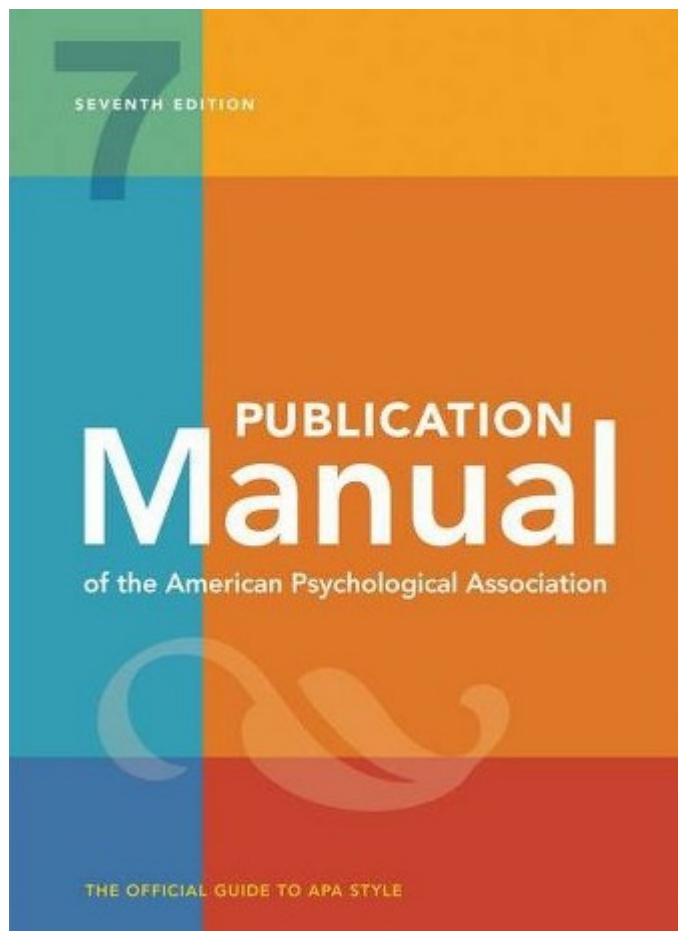
The knowledge gained from each course taken can be used to improve the development of the thesis. For example, if you have a particular interest in a specific disorder then it makes sense that you study that disorder in *PSYC 510 Psychopathology*. In *PSYC 560 Statistics I: Exploratory Data Analysis*, you might consider finding open data that allows you to better understand your problem area through data visualization. For example, if a student was interested in suicide they could examine open data from WHO and examine changing incidence rates across time and by countries.

There are, however, specific courses where the thesis is explicitly incorporated into assignments. The following are the MSCP courses that explicitly incorporate elements of the thesis into the syllabi:

PSYC#	Course	Semester	Year	Task
564	Adv. Research Methods	Fall	One	Literature Review
562	Statistics II: Regression	Spring	One	Data Analytic Plan
552	Psychometrics	Spring	One	Method
521	Ethics	Summer	One	Pre-Registration
565	Research Practicum	Fall	Two	IRB, Intro, Method
566	Thesis	Spring	Two	Complete Draft due May 1st

Chapter 5

Formatting



The thesis paper is completed in a manner consistent with the Publication Manual of the APA (7th Edition). Specifically, the following sections should follow, exactly, the guidelines defined by the 7th Edition:

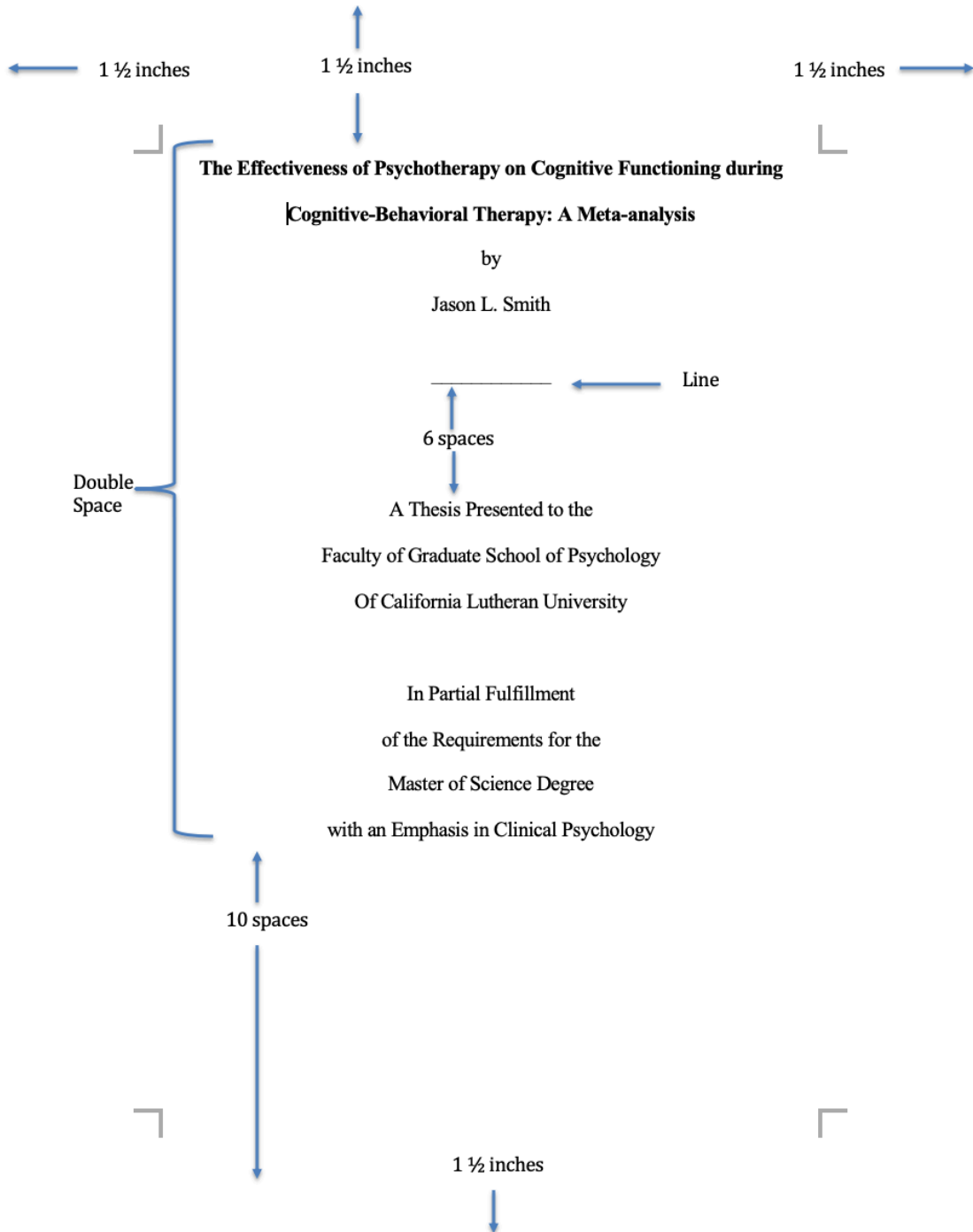
- Abstract
- Introduction
- Method
- Results
- Discussion
- References
- Tables
- Figures
- Appendices

There are several sections that **do not** follow the 7th Edition of the Publication Manual:

- Title Page
- Table of Contents

For examples of these, please see the Thesis Materials section of the MSCP homepage in Blackboard. General guidelines can be followed below:

5.1 Title Page Guidelines



5.2 Signature Page Guidelines

<div style="display: flex; justify-content: space-between;"><div style="border-left: 1px solid black; height: 10px; width: 20px;"></div><div></div><div style="border-right: 1px solid black; height: 10px; width: 20px;"></div></div> <p>The signatures below certify that the Master Thesis of</p> <p style="text-align: center;">Jason L. Smith</p> <p>has been approved by the Graduate School of Psychology of the</p> <p style="text-align: center;">California Lutheran University in partial fulfillment of the requirements</p> <p style="text-align: center;">for the degree of Master of Science</p>	
<p>Approved:</p> <div style="border-top: 1px solid black; padding-top: 5px;">Sunyoung Park, Ph.D. Chair</div>	<p>Accepted:</p> <div style="border-top: 1px solid black; padding-top: 5px;">Jamie D. Bedics, Ph.D., ABPP Director, Master of Science in Clinical Psychology</div>
<p style="color: red;">Note: The director and dean DO NOT CHANGE</p>	
<div style="border-top: 1px solid black; padding-top: 5px;">Jamie D. Bedics, Ph.D., ABPP Reader</div>	<div style="border-top: 1px solid black; padding-top: 5px;">Richard J. Holigrocki, Ph.D. Reader Dean, Graduate School of Psychology</div>
<div style="border-top: 1px solid black; padding-top: 5px;">Date</div>	<div style="border-top: 1px solid black; padding-top: 5px;">Date</div>
<div style="display: flex; justify-content: space-between;"><div style="border-left: 1px solid black; height: 10px; width: 20px;"></div><div></div><div style="border-right: 1px solid black; height: 10px; width: 20px;"></div></div>	

5.3 Table of Contents Guidelines

Table of Contents

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Introduction.....	2
Method.....	21
Data Analytic Plan.....	28
Results.....	30
Discussion.....	35
References.....	45
Tables.....	55
Figures.....	60
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5.4 Final Ordering

1. Title Page (according to CLU format and not APA)

This page provides the name of the thesis project, names of the university and school or department, and date of completion. The title page should be prepared in accordance with the sample page found in this section. The date at the bottom of the page is the month and year the degree is awarded. The title page is unnumbered but is counted as page “i.”

2. Signature Page (according to CLU format and not APA)

This page provides the name of the author and blank lines for the signatures of the committee members and the Graduate Dean of the appropriate School. The pages are signed when the members and Dean determine that the thesis or project is complete. The approval page should comply with the page form found in Appendix B. It should bear original signatures for all copies. The date at the bottom of the page is the date the degree is awarded; however, the page is not counted in the numbering system.

3. Dedication (optional)

This optional page contains a brief dedication to the individual(s) whom the author wishes to honor. If included, this page is numbered as page “ii” (lowercase Roman numeral).

4. Acknowledgements (optional)

This optional page lists persons and/ or institutions whom the author wishes to thank for their assistance in completing the thesis or project. Such assistance can be provision of personal, financial, or moral support, or access to data sets or subject populations. A brief statement as to the type of assistance provided may follow each person or institution named. If included, this page continues the lower case Roman numeral sequence begun above.

5. Table of Contents (according to CLU format)

6. Abstract (APA style)

7. Introduction (APA style)

8. Method (APA style)

9. Data Analytic Method (APA style)

10. Results (APA style)

11. Discussion (APA style)

12. References (APA style)

13. Tables (APA style)

14. Figures (APA style)

15. Appendix 1 - Pre-Registration

16. Appendix 2 - IRB Approval

17. Appendix # - optional as needed

Chapter 6

Thesis Binding

The following are instructions for binding your thesis. The binding of your thesis is *optional* and at your expense. You are responsible for the spelling, grammar, and correct APA formatting of your thesis. A bound thesis is a **final** thesis.

1. At least three (3) bound copies of the Thesis must be ordered.
 - a. One copy for the Graduate School of Psychology, one copy for the Thesis Committee Chair, and one personal copy for your possession. You can order more if you prefer (see #2).
 - b. The three copies must be printed on 25% rag or cotton fiber water-marked white paper, at least 20 pound weight, 8½ x 11 inches in size (EZERASE, or similar paper is not acceptable). A good example is Southworth Fine Business Paper, 25% cotton, 24 pound, white, stock #403C which is available for purchase from Office Depot, OfficeMax, and Staples. A similar 20 pound weight paper is also available.
 - c. Original signed signature pages on the same paper must be submitted with each of the three copies.
2. Additional personal copies may be ordered at the same time.
 - a. Personal copies may be printed on paper of the student's choice (e.g., 20 pound paper).
 - b. Signature pages for the personal copies may be photocopies of the originals as long as they are on paper that is identical to the rest of the thesis.
3. Copies for binding must be delivered to the Program Specialist.
 - a. The copies delivered to the Program Specialist are NOT to be bound - just packaged with bright colored paper separating the individual copies.

- b. Students are responsible for paying binding fees for all copies (the three required copies and for any additional personal copies). The cost is \$40 per copy (no matter the length), and to be paid by check to CLU. Prices may change.
 - c. The Program Specialist will forward the copies to the bindery as they are delivered.
 - d. Once the Program Specialist receives the copies and payment for binding, a change of grade will be submitted to the Registrar's Office.
- 4. The bound copies are typically ready in about 6-8 weeks and are distributed as follows:
 - a. The Graduate School of Psychology copy and the Thesis Committee Chair copy will be delivered via campus mail by the Program Specialist.
 - b. Students will be notified when their personal copies are ready for pick-up.
- 5. If you have any questions regarding the binding process, please do not hesitate to contact Mengmeng Liu, Graduate Program Specialist, at 805-493-3662 or at mengmengliu@callutheran.edu.

Chapter 7

Thesis Commons

Thesis Commons is a place for you publish your thesis to be seen by others. Thesis Commons is supported by OSF and is a way to both archive and showcase your work along with your OSF project.

Chapter 8

Presentations and Publications

The faculty hope you present your work at conferences and in publications. Please remember to contact your chair *prior* to submitting your work to any professional outlet. Your committee will typically be authors on all of your publically published work.