



**GRADUATE PROGRAMS & RESEARCH OFFICE
Faculty of Education
The University of Western Ontario**

**GUIDE FOR THE PREPARATION
OF A THESIS - Ph.D.**

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Revised March 2009

A. INTRODUCTION

The information provided below aims to answer some of the most frequently asked questions about the process of writing a thesis for the PhD (Education Studies) program.

For example:

Where can I find further information about the thesis?

➤ **The School of Graduate and Postdoctoral Studies**

The School of Graduate and Postdoctoral Studies sets out the university-wide policies and regulations. All graduate students at Western are registered as students in the School of Graduate and Postdoctoral Studies.

Each program has its own procedures, but they must align with the policies and regulations as laid out the *School of Graduate and Postdoctoral Studies Thesis Regulation Guide*:

http://grad.uwo.ca/current_students/thesis_regulation_guide.htm

➤ **Your Academic Advisor**

All Ph.D. students are assigned to an advisor upon entering the program. Make an appointment so that you can discuss your plans. Your Academic Advisor may or may not eventually be your Thesis Supervisor.

➤ **The Faculty of Education Graduate Programs & Research Office**

The staff of the Graduate Programs & Research Office will provide information, or point you to the resources you need.

B. CHARACTERISTICS OF A THESIS

What is a thesis?

A thesis is an extended research paper that

- addresses one or more researchable questions
- draws on published research and theoretical literature
- seeks to address a gap in the knowledge about a topic, or examines a topic in a new way.
- is theoretically grounded
- is couched in proper English usage.

C. GETTING STARTED

Once I've decided to do a thesis, then what should I do?

1. Identify a topic or topics of interest, or an issue you would like to explore.
2. Find a faculty member who is willing to act as your Supervisor.
3. Work with your Supervisor to form a Thesis Advisory Committee.

1. **Identify a topic or topics of interest and an issue or phenomenon you would like to explore; start thinking about your research plans early in your program.**
2. **Find a faculty member who is willing to act as your Supervisor.**

Who can supervise my thesis?

Your Thesis Supervisor must be a member of Graduate Faculty and a faculty member at the Faculty of Education. A Supervisor should have expertise in the area you wish to explore and in one or more research approaches suitable for your study. A Supervisor may be someone other than your Academic Advisor.

How do I find a Supervisor?

It's a good idea to discuss your area(s) of interest with your Academic Advisor, but you may seek advice from any faculty member. You may also wish to seek advice from other graduate students. From these preliminary discussions try to identify one or more potential Thesis Supervisors.

What do I need to do before approaching a potential Supervisor?

Prepare a portfolio of your graduate course work. A portfolio contains (1) an accurate record of courses taken and (2) your original papers as marked by your instructors. The portfolio provides the potential Supervisor with valuable information about your supervision needs.

What should I ask the potential Supervisor?

You need to know if the faculty member has the kind of expertise needed to supervise your research. You also need to feel comfortable with the faculty member's style of supervision.

Ask about

- availability and accessibility E.g. Do you prefer to meet in person or to communicate by email? How often would you be prepared to meet with me? How long can I expect to wait for feedback on my work?
- the amount and kinds of direction the faculty member routinely provides E.g. Will you read each chapter, or do you want me to write the whole thesis and then hand it to you?
- the faculty member's expectations of students E.g. How often do you want me to send you updates on my work? Do I need to provide you with paper copies of my work?

A list of Education faculty members and their research interests can be found at:

<http://www.edu.uwo.ca/research/directory.html>

What if I can't find a Supervisor?

- **It is the student's right and the student's responsibility to ask a faculty member to act as thesis Supervisor.** However, if you and your Academic Advisor are unable to find an appropriate and available faculty member, contact the Associate Dean of Graduate

Programs and Research. Be prepared to change or modify your topic.

3. Work with your Supervisor to form a Thesis Advisory Committee.

According to the regulations of the School of Graduate and Postdoctoral Studies, the Thesis Advisory Committee must have at least two members: the Supervisor and another member. Your committee member(s) may or may not be from the Faculty of Education.

Read the School of Graduate and Postdoctoral Studies guidelines, *Principles and Guidelines Regarding Graduate Student Supervision*, for further information on the rights and responsibilities of students and Supervisors.

http://grad.uwo.ca/current_students/supervising_guidelines.htm

Please inform the Associate Dean, Graduate Programs & Research in a timely fashion of any serious difficulties such as major professional academic disagreements, interpersonal conflicts, or potential conflict of interest situations.

D. PROPOSAL PREPARATION

**IT IS IMPERATIVE THAT YOU KEEP
BACKUP AND HARD COPIES OF ALL
DOCUMENT DRAFTS**

What is the purpose of a proposal?

- The proposal should leave the reader in no doubt as to what you intend to accomplish in the Thesis and how you will accomplish it.
- The proposal is a crucial piece of work which must be completed **BEFORE** you invest time in detailed research.
- A well designed and tightly written proposal can save you much time and effort in composing the final product.
- Students typically write and revise several drafts of a proposal before the final submission.

How do I inform the Graduate Programs & Research Office that I'm working on my proposal?

- Registration after course work (Program Planning is held every March):

Degree element	What to Register for	Term to Register
Qualifying Examination	9789	2 nd winter (typically takes 1-2 terms)
Thesis Proposal Development	9790	2 nd summer
Thesis	9790	Every term until completion of degree requirements

The Research Problem

The research problem or question to be investigated is the core of your research. Until you have clarified a workable research problem you cannot determine the nature of the approach or style of investigation that is appropriate for your research.

Your committee will advise you on the merit of your idea and the quality of the language in which it is expressed. Most students find that narrowing down the focus of the research is not an easy task, but it is a critical first step in the design of the study.

Research Methods

Once the research problem is clearly defined you are ready to identify a research methodology and methods for your study.

Some questions to consider

- Should the study be empirical-analytic? interpretive? critical?
- Are quantitative methods appropriate?
- What weight should be given to empirical and/or theoretical considerations?
- Will you utilize historical or philosophical methods of analysis?

What are the components of a proposal?

The Proposal

The proposal must communicate clearly in standard written English what you propose to accomplish in your thesis.

There is no set length for a proposal, but 20 pages (double-spaced) is usually sufficient.

A proposal must meet the following criteria.

- ✓ The issues are clearly defined.
- ✓ Manageable limits for the study have been set.
- ✓ The research questions or problem to be addressed are clearly stated.
- ✓ The research techniques and methods of analyzing and/or interpreting the findings are described.
- ✓ The applicability of the study to educational scholarship and/or practice is demonstrated.
- ✓ Potential implications for education are noted.
- ✓ Ethical issues are identified and discussed.
- ✓ The adequacy of materials and available resources are demonstrated.
- ✓ A preliminary bibliography is attached.

Style Manuals

Each instructor and thesis/project Supervisor offers advice on selecting an appropriate style manual. Commonly used manuals include:

American Psychological Association (2001). *Publication manual* (5th ed.). Washington, DC: Author.

Barzun, J., & Graff, H. F. (1992). *The modern researcher* (5th ed.). New York: Harcourt, Brace & World.

Fowler, H. R., & Aaron, J. E. (1989). *The Little, Brown handbook* (4th ed.). Toronto: Little, Brown.

Messenger, W. E., & DeBruyn, J. (1986). *The Canadian writer's handbook* (2nd ed.). Scarborough: Prentice-Hall.

Turabian, K. L. (1996). *A manual for writers of term papers, theses, and dissertations* (6th ed.). Chicago: University of Chicago Press.

E. THESIS RESEARCH-PERMISSION AND OBLIGATIONS

When does a researcher need to apply for research permission?

If your research involves human subjects in any manner, there are very strict procedures that must be followed.

For example

- conducting interviews
- using surveys and questionnaires
- using written work produced in their own classrooms or those of colleagues.

What procedures must the researcher follow?

- **You must obtain consent from the Ethical Review Committee and the Associate Dean, Graduate Studies and Research.**

No research involving human subjects can be undertaken until the Ethical Review Committee and the Associate Dean, Graduate & Research, have given consent. Please discuss this matter thoroughly with your Supervisor before you begin any aspect of your research.

It can take up to six weeks for the Ethical Review Committee to complete its review and it is not uncommon for the Ethical Review Committee to require changes in the protocol. If you have any queries about this issue, contact the **Associate Dean, Graduate & Research**, who is also **Chair of**

the Ethical Review Committee.

1. **Review the guidelines of *The University of Western Ontario Review Board for Non-Medical Research Involving Human Subjects*.** You can obtain a copy of the Guidelines from <http://www.uwo.ca/research/ethics/nonmed/nmreb-guidelines.htm>. The Application Form is available on the Graduate Programs & Research Office web site: <http://www.edu.uwo.ca/Graduate/forms.html>.
2. **Prepare four copies of the Ethical Review Form.** Submit the four copies and one copy of the thesis research proposal with Form A (see attached) to the Graduate Programs & Research Office for approval.

If you are a teacher, you must also secure the written permission of your Board. (Check your Board's procedures about this important point.)

F. APPROVAL OF YOUR PROPOSAL*

*See **Form A, APPROVAL OF PhD THESIS PROPOSAL**, attached

Your proposal or prospectus **must** be approved by your Thesis Supervisor and Thesis Advisory Committee, the Ethical Review Committee if necessary, and the **Associate Dean, Graduate & Research, BEFORE** you begin to collect your data .

How will I know my proposal has been accepted?

- You will receive a copy of the completed signature sheet (Form A) from the Graduate Programs and Research Office (mail box in GPR Office).

Please note:

Although you will be anxious to start your data collection as soon as possible, you must plan for the possibility that the approval will not proceed as quickly as you would wish. Ethical review may require a month or more, depending on any changes that are required.

Any data collected before you receive approval cannot be used in the DRP.

May I make changes to my research plan after the proposal has been accepted?

- Acceptance of the proposal does not mean that you and your committee are committed to it in all circumstances.
- Unforeseen difficulties or unexpected findings might necessitate revisions or amendments to your original proposal.
- You should consult your Supervisor and committee if you feel you need to make changes.
- **If your changes involve any of the procedures approved by the Ethical Review Committee**

you will have to notify the committee.

G. THESIS PREPARATION

How often should I meet with my Supervisor?

- There is no rule, but it is **imperative** that you maintain close contact with your Supervisor and other members the Advisory Committee regarding the progress of the Thesis. Quite often a series of regularly scheduled appointments is established. This is particularly crucial during the final stages of preparation.

How often should I meet with my Committee?

- There is no rule. Talk to your Supervisor. A meeting of the full committee can be convened at your request and will be arranged by your Supervisor. At the very least, you will be required to keep the Supervisor and other members of the Advisory Committee informed of the progress of the work.

How do committee members support my work?

The functions of the committee are:

- to review, make recommendations and approve the proposal;
- to advise and supervise the development of the study;
- to receive progress reports;
- to require modifications deemed necessary;
- to evaluate the final draft of the thesis
- to determine when the final draft is ready for the oral examination.

What if I disagree with my Committee?

- Should there be a difference of opinion between you and the committee concerning the readiness of the final draft for examination, you have the right to appeal this decision.
- If you are not successful in your appeal you do still have the right to proceed to defence. However, you must recognize that if your committee believes the thesis is not ready you will likely have a very difficult time defending your thesis before an examining committee.
- In the final analysis, the thesis is wholly your responsibility. Your committee is there to offer advice and guidance.

Are other faculty members allowed to advise me?

- While working on your Thesis, you should feel free to consult any member of the Faculty of Education who may be able to offer advice.

H. PROPER FORMAT FOR THE THESIS

It is your responsibility to consult the web site of the School of Graduate and Postdoctoral Studies for regulations and for the current *Guide for the Preparation of Theses*. The latter contains detailed instructions about the quality of paper, typescript, the use of illustrative material, the numbering of pages, binding the completed work, etc.: http://grad.uwo.ca/current_students/thesis_regulation_guide.htm

Plagiarism is a serious Scholastic Offence. The following policy statement from Senate is in effect for all graduate work. “Students must write their essays in their own words. Whenever students take an idea, or a passage of text from another author, they must acknowledge their debt both by using quotation marks where appropriate and by proper referencing such as footnotes or citations.

Plagiarism is a major academic offence (see Scholastic Offence Policy in the Western Academic Calendar).

“Plagiarism checking: The University of Western Ontario uses software for plagiarism checking. Students may be required to submit their written work in electronic form for plagiarism checking.”

Students are required to follow the University of Western Ontario’s policies concerning plagiarism and the extensive use of copyrighted material.

I. THESIS EXAMINATION

The regulations of the School of Graduate and Postdoctoral Studies concerning the submission of a thesis and the scheduling of the oral examination are on the web site and should be carefully consulted: http://grad.uwo.ca/current_students/thesis_regulation_guide.htm

The following information supplements School of Graduate and Postdoctoral Studies regulations.

- When the Advisory Committee decides that the thesis is ready for an examination, the student will submit **Form B, APPLICATION FOR THESIS EXAMINATION**, to the Faculty of Education Graduate Programs & Research Office (attached).
- The Thesis Supervisor submits a list of potential examiners and a possible date for the examination to the Manager, Graduate Programs & Research.
- Normally an examination committee consists of a neutral chair, two members from the Faculty of Education (excluding the Supervisor and Advisory Committee members a university examiner, and an examiner external to the university. The examination cannot be held until the School of Graduate and Postdoctoral Studies has approved the list of examiners and the date.
- A **minimum of eight weeks** is needed for reading the thesis.
- After submission of the examination copies, the Graduate Programs & Research Office will provide a package of information for the candidate, which includes instructions on creating the Certificate of Exam (samples below; see Section 3.1.6. of SGPS Thesis Regulation Guide: http://grad.uwo.ca/current_students/thesis_regulation_guide.htm). The student must take one Certificate of Examination to the Oral Examination to be signed. The Certificates of Exam that are bound do not contain signatures.

- **Public Lecture** - normally scheduled the same day (or day before) the Oral Examination.
- The examiners may require that there are revisions and amendments **before** the examination is held.
- The examination is closed to the public.
- The examination committee will examine the candidate on the content, format, and implications of the thesis. In addition to determining the adequacy of the findings, the committee must be satisfied that the work meets the proper standards of scholarship.

What happens at the exam?

- Before the oral examination begins, the Chair of the examining committee will introduce you to all members of the committee.
- Then you will withdraw from the room for a few minutes while the examiners determine the order of questioning.
- Although the School of Graduate and Postdoctoral Studies no longer requires that you do this, you should be prepared to present a 15 minute resume of the research when you return to the room. You should discuss this format with your Supervisor beforehand.
- Then the questioning begins. There may be one or two rounds of questioning. On the completion of all questioning you will retire from the room while the examining committee makes its determination.

J. ACCEPTANCE OF THE THESIS

What happens if I'm asked to do revisions?

- Students are often required to make minor revisions to the content and/or the format of the thesis once it has been successfully defended, before final approval.
- Revisions are supervised by one of the examiners who has withheld his/her signature from the Certificate of Examination.
- Within two weeks of the defence date:
 - Revisions must be completed.
 - The final signature must be obtained by the student.
 - The revised thesis must be submitted to the School of Graduate and Postdoctoral Studies for final approval, and UWO's Graphic Services for binding. You may submit your own paper copies for binding, although ***you must check every page of every copy*** to ensure all copies are the same. Alternatively, you can pay to have Graphic Services print the copies, thus placing this responsibility with them.

What is the procedure for submitting the thesis to the School of Graduate and Postdoctoral Studies?

- After the revisions have been accepted, make sure that the thesis conforms to the correct format. A *Doctoral Checklist* will be included in your Thesis Defence Confirmation package from the Graduate Programs & Research Office.

- Make an appointment with the Thesis Coordinator, School of Graduate and Postdoctoral Studies, Room 200, Natural Sciences Building: <http://www1.regx.uwo.ca/GradSchedule/>
- Make sure your *Certificate of Examination* has all the required signatures.
- Submit a minimum of **three official copies** of the thesis, your signed *Certificate of Examination* and a copy of the *Checklist for the Presentation of a Master's Thesis* signed by you to the Thesis Coordinator.

K. DISSEMINATION OF RESULTS

If you have promised participants that you will make your findings available to them, please make sure that you do so as soon as possible **after your thesis has been accepted**. It is an excellent technique for disseminating research results and also a way of maintaining good public relations with school boards and other sectors of the education system.

School of Graduate and Postdoctoral Studies regulations and publications are available to be viewed on the Web. The School of Graduate and Postdoctoral Studies home page can be found at:

<http://www.grad.uwo.ca/>

THESIS PROPOSAL DEADLINES

The final dates for submitting your proposal and ethical review, if applicable (with Form A, attached) to the Graduate Programs & Research Office are:

<p>Last business day of term, or approximately:</p> <p>Fall Term – December 31 Winter Term – April 30 Summer Term - August 31</p>

THESIS FINAL SUBMISSION DEADLINES

The following are **ABSOLUTE** deadlines:

	Paperwork To Linda Kulak, Graduate Programs & Research Office	Thesis copies and extra abstract to SGPS	Last Day for Thesis Defence	Last Day for final SGPS approval & submission for binding
Fall Term (Spring Convocation)	October 20, 2008	November 10, 2008	December 15, 2008	December 22, 2008
Winter Term (Spring Convocation)	February 26, 2009	March 19, 2009	April 23, 2009	April 30, 2009
Summer Term (Autumn Convocation)	June 26, 2009	July 17, 2009	August 21, 2009	August 28, 2009

If any of the above dates fall on a week-end, the Friday before that date will be considered the deadline.

NOTE: *Students on a Leave of Absence the term prior must register and pay tuition fees during the term they plan to complete the Thesis.*

APPROVAL OF PhD THESIS PROPOSAL

Form A

<p>If the proposed research does not involve human subjects or the direct use of their written records, video-tapes, recordings, tests, etc., this signature form, along with ONE copy of the research proposal should be delivered directly to the Graduate Programs & Research Office for final approval.</p>	<p>If the proposed research involves human subjects, this signature form, along with ONE copy of the research proposal and FOUR copies of the Ethical Review Form must be submitted to the Chair of the Ethical Review Committee, Graduate Programs & Research Office , Faculty of Education.</p>
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IT IS THE STUDENT'S RESPONSIBILITY TO PROVIDE A COPY OF THE RESEARCH PROPOSAL (INCLUDING REVISIONS) TO THE THESIS SUPERVISOR AND ALL MEMBERS OF THE ADVISORY COMMITTEE.

Student's Name: _____ ID # _____

Field of Study: _____

TITLE OF THESIS: _____

DOES THIS RESEARCH INVOLVE THE USE OF HUMAN SUBJECTS: YES NO

Name of Thesis Supervisor: _____

Name(s) of Members of the Thesis Advisory Committee: _____

APPROVAL SIGNATURES:

Graduate Student: _____

Thesis Supervisor: _____

Advisory Committee: _____
(at least one)

Ethical Review Clearance: _____

Review #: _____ Date: _____

Associate Dean GPR: _____ Date: _____

A STUDENT MAY PROCEED WITH RESEARCH WHEN A COPY OF THIS FORM CONTAINING ALL APPROVAL SIGNATURES HAS BEEN RECEIVED.

A COPY OF THIS PROPOSAL MAY BE MADE PUBLIC AND KEPT ON A TWO-HOUR RESERVE IN THE EDUCATION LIBRARY.

Faculty of Education
The University of Western Ontario

APPLICATION FOR THESIS EXAMINATION

This form is to be completed when a student wishes to present a thesis for examination.

Note: The Thesis Advisory Committee decides when a thesis is ready for examination. If there is a difference of opinion between a student and the committee concerning the readiness of the final draft for examination, the student may appeal. (See the Graduate Programs & Research *Guide for the Preparation of a Thesis - PhD*)

Part A: Student's Application for Examination

Name: _____

Thesis Title: _____

Signature: _____ Date: _____

Part B: Advisory Committee Approval

This thesis has been completed to our satisfaction, and is ready to proceed to examination. Yes
In our judgement, this thesis is not ready to proceed to examination (please explain below). No

Thesis Supervisor (print name): _____

Thesis Supervisor (signature): _____

Thesis Advisory Committee: _____
(Please include both names
and signatures) _____

COMMENTS: (To be filled in when Thesis Supervisor does not judge the thesis ready for examination. These comments will be reported to the examiners at the conclusion of the oral, if and when it takes place.)

Part C: Recommended Examining Board (to be completed by Thesis Supervisor)

Each person listed below **MUST** be contacted by the Thesis Supervisor before his or her name is submitted. If any questions or problems arise concerning selection of examiners please contact the Graduate Chair for assistance.

Departmental Examiner: _____

Departmental Examiner: _____

University Examiner: _____

Dept./Program, campus address, phone number and email: _____

External Examiner: _____

University, mailing address, phone number and email: _____

This approval form is submitted to the Graduate Programs & Research Office, and 5 copies of the thesis plus an extra copy of the abstract must be delivered to the School of Graduate & Postdoctoral Studies, Room 200 Natural Sciences Building.

DOCTORAL THESIS CHECKLIST

Candidate's Program:	Candidate's Student #:
Candidate's Name (Last Name, First)	Degree Sought: Ph.D.
Spine Title (60 Characters or less including spaces):	

This checklist highlights **most** of the key steps to successful completion. Before proceeding ensure that you have read Sections 1, 2, 3 and 4 of the Thesis Regulation Guide.

- Section 1: GENERAL THESIS REGULATIONS
Section 2: COMPLETION OF ALL NON-THESIS DEGREE REQUIREMENTS
Section 3: THE THESIS PREPARATION AND FORMAT
 FORMAT SPECIFICATIONS (Monograph OR Integrated-Article)

- Length
- Copyright Material and Permissions
- Confidentiality Agreement (where applicable)
- Titling the Thesis
- Title Page
- Certificate of Examination
- Abstract and Keywords
- The Co-Authorship Statement (where applicable)
- Acknowledgments (where applicable)
- Table of Contents
- Ethics Approval (where applicable)
- Appendices (where applicable)
- Curriculum Vitae

FORMATTING

- Style for headings, subheadings, references, figures, tables, spelling, punctuation, and bibliographic citations
- Typescript, point size, and print quality
- Line spacing
- Margins
- Illustrative material

PAPER

- Oversize pages

PAGE NUMBERING

Section 4: DOCTORAL CANDIDATE - COMPLETION OF THE THESIS DEGREE REQUIREMENT

- THE PROGRAM REQUESTS A THESIS EXAMINATION**
 THE CANDIDATE SUBMITS THE THESIS FOR EXAMINATION

- The Doctoral candidate submits five unbound copies of the thesis in the prescribed format along with a completed "Doctoral Thesis Supervisor Approval" form to SGPS. The candidate must enclose each thesis copy in a letter-size file folder.

FINAL SUBMISSION OF THESIS

- Any changes recommended by the Thesis Examination Board have been completed
- 3 "Certificates of Examination" have all the required signatures
- The thesis is enclosed in the prescribed format with 3 "UWO licenses," 3 "Certificates of Examination," a "National Library license," and a "UMI Abstractions Services" form.
- Appointment booked with the Thesis Coordinator in the School of Graduate and Postdoctoral Studies [www.uwo.ca/grad]
- Once approved by FGS, the candidate must submit the thesis with all the completed forms to UWO's Graphic Services (Commissary Building), who will accept the thesis and make copies for binding.

Office use only:

SGPS Approval

Name:

Date:

UWO Graphic Services

Name:

Date:

The personal information on this form is collected under the authority of the University of Western Ontario Act, 1982, as amended. For a complete Collection Notice, visit www.uwo.ca/grad.

BEHAVIOURISM: A COMPARATIVE STUDY

by

John A. Doe

Faculty of Education

Submitted in partial fulfilment
of the requirements for the degree of
Doctor of Philosophy

School of Graduate and Postdoctoral Studies
The University of Western Ontario
London, Ontario
March 2009*

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* Month and date thesis submitted to School of Graduate and Postdoctoral Studies

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SAMPLE CERTIFICATE OF EXAM

THE UNIVERSITY OF WESTERN ONTARIO
SCHOOL OF GRADUATE AND POSTDOCTORAL STUDIES

CERTIFICATE OF EXAMINATION

Supervisor

Dr. Martin Kreiswirth

Supervisory Committee

Dr. George Emery

Dr. Tony Vandervoort

Examiners

Dr. Mike Smith

Dr. Fred Jones

Dr. Alan Franklin

Dr. Bill Arnold

The thesis by

First Name Middle Name Last Name

Entitled:

Full Title of Your Thesis

is accepted in partial fulfilment of the
requirements for the degree of
Doctor of Philosophy

Date _____

Chair of the Thesis Examination Board

SAMPLE CERTIFICATE OF EXAM FOR BOUND COPIES

THE UNIVERSITY OF WESTERN ONTARIO
SCHOOL OF GRADUATE AND POSTDOCTORAL STUDIES

CERTIFICATE OF EXAMINATION

Supervisor

Signature on file
Dr. Martin Kreiswirth

Supervisory Committee

Signature on file
Dr. George Emery

Signature on file
Dr. Tony Vandervoort

Examiners

Signature on file
Dr. Mike Smith

Signature on file
Dr. Fred Jones

Signatures on file
Dr. Alan Franklin

Signature on file
Dr. Bill Arnold

The thesis by

First Name Middle Name Last Name

Entitled:

Full Title of Your Thesis

is accepted in partial fulfilment of the
requirements for the degree of
Doctor of Philosophy

Date _____

Signature on file
Chair of the Thesis Examination Board