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INTRODUCTION
The Honors Thesis is a written manuscript that presents a project or piece of original scholarship conducted under the guidance of a faculty advisor. Conventionally, a thesis is a report of research that creates new knowledge, and it includes a question or hypothesis that is answered or defended by analysis and argument drawing upon the analysis of data or the interpretation of primary source materials. However, a wide range of other activities may qualify for a thesis, including: engineering design projects, graphic arts exhibits, business plans, computer programs, plays, fiction, musical compositions, or various kinds of report, for example, from a service-learning project, or co-op (see Appendix C). The Thesis is then the written report that accompany the development of a design, the creation of a work of art, or the performance of theater or music, for example.

Though the work may begin before the final year, the Thesis is a capstone experience that requires scholarly maturity, and it must make an original contribution to the field. Overall performance in the Honors Program thesis project should demonstrate that the student has learned how to engage in a substantive scholarly undertaking that could continue to the advanced degree level.

For most Honors students, completion of the Honors thesis will be the apex of their college careers. Working on a thesis project provides ways of developing your ability to investigate a problem and to do serious writing, research, or creative work that will likely help you in your profession. Through this process, you can develop the self-knowledge and initiative that are essential to meet future challenges in your career. When you are pushed to the limit of your energy and creativity, you will discover new ways of organizing time and managing stress and long hours of work. This training is invaluable.

Writing a thesis is a challenging task, but it is also rewarding. The experience will allow you to emerge with the confidence and ability for graduate level research or fast track professional careers. In addition to independent work, the project involves a close relationship between the student and the faculty advisor. Such sustained interpersonal interaction contributes greatly to the quality of the experience and in many cases the advisor provides advice and assistance that can help students realize personal and professional success beyond the thesis.

Needless to say, the thesis should reflect only the student's own research or their individual contribution to collective research, and it should be completely written by the student. A copy of a multi-authored publication is not acceptable.

All Clarkson Honors Theses are available in print in the library and listed in the catalog.

Types of Honors Thesis
The Honors Thesis is typically based on work conducted within the student’s major field of inquiry, but it is also possible to engage in other fields as long as the work meets appropriate level of scholarly achievement in that field. Generally, this means that it is of “publishable quality,” representing original scholarship and written in a professional style and format.

In most cases, the Honors Thesis is similar to an academic journal article, though typically a thesis contains a section of Background or Literature Review that is several times longer than the equivalent section in an academic journal that is directed towards an audience of specialists. In a thesis, the author must demonstrate a synthetic understanding of broad literature and communicate...
to wider audience. Similarly, the Methodology section is expected to be longer as the student is expected to demonstrate an understanding of experimental design. Thus, a paper submitted for publication cannot be substituted for an Honors thesis.

Unlike most journal articles, it is not a requirement that experiments work or research yields publishable results. If expected results were not obtained, students should analyze the experiments for possible errors of conception and/or measurement, and suggest alternative approaches that might answer the research question.

It is important to note that an Honors Thesis may be something other than an “experimental design,” which traditionally advances a hypothesis to be proved or disproved. In some cases, students may pursue a literary undertaking (e.g. a novel or screenplay, or a series of poems, plays, or short stories), a portfolio of creative works (e.g. paintings, photographs, or digital media), a movie (e.g. documentary or feature), or an installation (e.g. sculpture or museum exhibit). They may also create a website or a smartphone application; a board game or a video game; a product design or a business plan. This is not an exhaustive list but are intended to show the wide range of areas that Honors students can use to demonstrate curiosity, intellect, creativity, and the ability to embrace risk over a significant period of time during their undergraduate experience. In such cases, the student will be required to submit a proposal or prospectus for the project, and this will be evaluated by the Research Committee using a modified version of the standard rubrics. Please note that students will be expected show that they have the coursework or equivalent experience to prepare them to undertake the thesis project (e.g. having taken courses in creative writing or literary analysis prior to writing a creative work). In such cases, it may be advantageous to identify a thesis topic well in advance of the junior year.

In the case that the product of the scholarship is not a conventional “paper” that can be bound between two covers and published in a journal, in lieu of the thesis as such, the student will be asked to compose a critical essay. For the artistic product the essay will describes the genre and context of the work; the intellectual or artistic influences on the student and the particular work; the creative process and the choice of media, techniques, and other aesthetic decisions; technical difficulties encountered and how they were overcome; and a critique of the work. For the design project, the essay will take the form of a report detailing the design process from concept through execution; explaining and accounting for design decisions; locating materials, techniques and practices in context of historical and contemporary start of the art; and the outcomes of the work. Sometimes, these projects will need to be evaluated by an outside referee with appropriate expertise.

The Honors Co-op Thesis
The Honors Co-Op Thesis is an alternative capstone project for the Honors degree at Clarkson University for students who are on a University approved co-operative education assignment during the junior and/or senior year. To qualify as an Honors Co-Op, the work experience must be full-time and at least six months long, so it includes at least a part of the summer. 1 The Honors Co-Op involves the student conducting and evaluating a project while on assignment, which may be a design, technical implementation, managerial intervention or other form of activity approved by the Honors Program. The project will be under the joint supervision of his/her co-op supervisor and a

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1 In some cases, it may be possible to complete a project during a summer internship in the junior-senior summer, as long as this completes a total of more than six months experience in the workplace, preferably in the same company.
Clarkson faculty advisor and each of them must submit a signed Advisor Agreement form. The student must write a preliminary proposal and have it approved by the Honors Program before going on co-op. Ideally, the student does a co-op in the senior year so that he/she can plan the project during the fall semester and write a proposal during HP 390 in the spring semester of the junior year. Otherwise the student must complete a proposal independently. A complete proposal will be due for review by the Research Committee within one month of the start of the co-op.

Please note that for some majors the Co-Op thesis may not allow the student to obtain credit for professional electives, in which case the student is advised to pursue disciplinary research while on co-op instead. For example, an MAE major might research improvements in manufacturing design and an E&M major might investigate an operations management innovation in the workplace. If in any doubt, students should consult with an academic advisor and/or faculty member.

Students pursuing the Co-Op Thesis must complete a proposal before or during the first month of the co-op and have it approved by the Research Committee. The Co-Op Thesis should be written up in the form of an Introduction, Reflective Essay and Technical Report that together form the Honors Thesis (see Appendix D).

Business Studies Thesis
The Business Studies thesis can take two forms: an academic study, which is similar to research conducted in the social sciences; or a business plan, which applies rigorous methodology to the development of an entrepreneurial venture. These two options are outlined in Appendix E.

The Honors Thesis Process
The process of a thesis project begins with substantial background reading and the choice of a topic and an advisor, which should be completed by the end of the first semester of the junior year. There will be a series of mandatory pre-thesis meetings in this semester. This is followed by the development of a proposal for the project in the second semester of the junior year (HP 390), which must be approved by the Research Committee of the Honors Council. The proposal is best conceived not as preparation for the research or creative work, but as the first stage of that work, and much of the material in the proposal will be incorporated into the thesis. Ideally, the work continues over the summer when it may be supported by the Summer Research program (see below) and it continues into Thesis Research (HP 490). The thesis culminates in oral presentation of the work and submission of the manuscript for review by an appointed faculty Reader. Requirements are usually completed with graduation in the spring semester of the senior year, but in exceptional cases may be completed in the fall semester.

Junior Year Effort:
1. Find an advisor and with his or her help define a thesis topic. Assess readiness for the project and determine whether some specific courses or equivalent preparatory activities are necessary to develop a background appropriate for the undertaking.

2. Conceptualize the research or design problem: what is the scope of the problem/project and subsequent investigation/implementation. Develop the problem statement, objectives and significance of the project.

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2 It is expected that the co-op supervisor oversees the practical implementation of the project while the faculty advisor helps with academic content of the work, ensures quality of the product, and acts as a back-up in case of any problems occur.
2. Literature search: develop a working bibliography of credible sources documenting previous work in the field.

3. Literature review: a comprehensive review of credible sources that frame and support the problem/project. The review should be organized into a narrative form with subsections focusing on subfields within the larger field of interest.

3. Identify the question and hypothesis, or specify design objectives: what is the question you want to answer and what answer do you expect; and what is the problem you want to solve?

4. Sharpen the focus with a well-defined title and draft of completed proposal for the project. Obtain advisor’s approval of draft.

5. Demonstrate both personal qualifications for and the feasibility of the project to the review committee through acceptance of the research proposal.

6. Ideally, the research or creative work begins in summer: the Honors Program can provide support through the Summer Research Program.

**Senior Year Effort:**
1. Conduct experiments, fieldwork and other data collection efforts, or preliminary design/creative work. If necessary, continue, to take courses or equivalent training to develop a background in the topic.

2. Analysis and interpretation of data, or critical assessment of design/creative work.

3. Conclusions: assessment of results with explanation of success(es) and/or failure(s), consideration of lessons learned, and outline of next step(s).

4. Communication of process: substantive writing of thesis. Updating components of the proposal (e.g. Introduction, Background, Bibliography) and drafting and redrafting full thesis. Formal presentations to be held in the Honors program and at RAPS.

Please note that the above sketch of the process is only a guide, as the thesis project is typically non-linear in nature. Students will find themselves working on steps concurrently at some stages, and will find they have to return to previously completed steps as problems occur. It is not unusual to encounter problems with equipment, reagents, protocols, and techniques, and to have to adapt or even substantially change the approach to the project. For an Honors thesis, however, it is possible to accept “negative results” as long as the thesis reflects on the process and draws appropriate lessons from the experience.

**Time Table for the Honors Thesis**

**Fall Junior Year**
Early October: Begin the process of thesis topic/ advisor selection
Mid-Late October: Topic and advisor selected
Late October: Begin literature search
Early November: Student & Advisor Agreement
Late November: Draft Problem and Significance Statement
Early December: Draft Bibliography

**Spring Junior Year (HP 390)**
Early January: Annotated Bibliography
Late January: Abstract
Early February: Literature Review
Mid-February: Methodology
Late February: Presentations
Mid-March: Draft of proposal
Late March: Submission of revised thesis proposal
Early April: Evaluation by the Research Committee
Late April: Final revisions of proposal

**Summer**
Ongoing research, continued background reading, fieldwork, etc.

**Fall Senior Year (HP 490)**
Early September: Progress reports
Mid-September-Mid October: Weekly “Project in Progress” presentations
Late October: advisor progress reports
Early November-Late November: Weekly “Project in Progress” presentations
Early December: Completion plans

**Spring Senior Year (HP 491)**
Early January: Progress report
Late March: Thesis final draft due to Honors Program (approved by advisor)
Early April: Review comments from Reader
Mid-to-end April: Revision of thesis
April: RAPS Conference presentations
Early May: Final thesis due to Honors Program

**Student Agreement**
The Honors thesis is a major endeavor that requires a great deal of personal commitment and demands considerable institutional resources, including the time and expertise of a faculty advisor who will supervise you individually in your work for at least a year. It is very important that you realize the extent of this commitment and ensure that you meet the expectations of the Honors Program and your advisor. We will ask faculty mentors to sign an “Advising Agreement” as an indication of their commitment to mentoring you, and we ask you to sign a “Student Agreement” that indicates your commitment to your thesis project. It is vital that you and your advisor agree about your expectations of each other.

By signing the Student Agreement (see Appendix F), you acknowledge your understanding of, and responsibility for meeting the thesis requirements of the Honors Program, which includes the required courses, HP 390 and HP 490, and research, writing, and presentation of the thesis itself. You also agree to develop a focused and feasible project; to find a faculty advisor with whom you keep up regular and open communication; to present work in-progress in a timely fashion; to conduct research responsibly and ethically; and to adhere to professional norms of academia and your particular field.
Choosing a Thesis Topic
Often the choice of thesis topic and advisor go hand in hand: when you talk with several professors who do scholarship in areas you find interesting, one of them may suggest a specific topic which you decide to work on. In choosing a topic, the student should ask several questions:

1. What do I want to know badly enough to go through the often time-consuming, frustrating, and joyful process of finding out? Am I willing to sacrifice nights of goofing off for nights in the library or lab working on this project?
2. Am I qualified? Do I have enough background in the field, from theory to laboratory techniques, to pursue this topic? Have I taken or are there courses I should take that would better prepare me in this area.
3. Is the topic significant, yet limited enough in scope to manage in the time that is available?

By answering these questions and generating others, you will begin to focus your interests on a specific topic. Normally you will choose a project in your own academic major, but this is not a requirement as long as you possess the necessary qualifications and you are able to do work of the same quantity and quality that a student in the major would do.

Once you have an interesting question or idea, a good test is to try to put it into a single sentence or phrase understandable to a layperson. This phrase now becomes a project title, for example, "Cultural Limitations on Women’s Careers" or “Impact of Wireless Networking in Education” or “Effects of Earthquakes on Glacier Structures”. The idea can be anything–as long as you created it and you care about it.

Once you have chosen your topic, create a one-page summary of the project proposal. In this summary you should provide information concerning your preparation to do the proposed research. This can include a list of relevant courses, experience, term papers, publications, research, etc. In addition, list the major sources you expect to use. It is quite normal to find out that you are unable to write this summary and that you need someone to help you. Seek this person out and you may well find your thesis advisor.

Choosing a Thesis Advisor
There are two main ways to choose an advisor to assist you in your work:

1. You may join a professor in research in which he or she is already engaged. You and your advisor form a research partnership, sharing ideas and background knowledge.

2. You may choose a professor who works in your area of interest but is not working on the same topic. In this situation, you will be somewhat more on your own, although the thesis advisor will still be a vital resource.

If a project topic emerges, but you do not know a faculty member who would be suitable, contact the chair of the appropriate department and the Honors Program to assist you in identifying faculty members who might supervise your work. It is possible to request an advisor who is not a regular member of the faculty at Clarkson but this will have to be approved by the Honors Program.
**Advisor Agreement**
The Honors Program requests that a faculty member formally agrees to act as an advisor by signing the form, “Agreement to Serve as Advisor for an Honors Thesis” (see Appendix G). By signing the attached form the advisor agrees to perform the following roles:

1. Provide assistance in developing a proposal for the thesis project:
   
   Guide the student in framing a question that is both feasible and of appropriate scope; specifying research methods and strategies; identifying useful sources in the literature; recommending other faculty with whom the student should consult; ensuring that the proposal meets the Honors Program requirements as it is submitted to the Honors Research Committee for approval.

2. Supervise research for the thesis project:
   
   Meet regularly with the student to evaluate progress on his or her research; help establish deadlines for the completion of various stages of the project; provide constructive criticism of the student’s work in a timely fashion; give encouragement to the student; identify and discuss problems with the student; complete progress reports and recommend grades; and report serious problems to the Honors Program.

3. Assist in the preparation of the thesis and the final presentation of the project:
   
   Ensure that student prepares the thesis according to guidelines as it is submitted to the Honors Program for review by the appointed expert readers; assist in the publication of the thesis if appropriate; and advise the student in preparation for the oral presentation of the thesis.

Typically, the advisor will do much more than this and in some cases the thesis may be the beginning of a life-long relationship. Much will depend upon the student effectively “managing up,” or doing his/her part to build a productive relationship (see “The Student’s Agreement”).

**The Thesis Proposal**
The thesis proposal provides an initial description of the thesis project. You should not think of it as something that comes before the project begins, but as the completion of the first stage of the project itself. A proposal provides a substantial review of the literature in the field, which helps to frame the research, and often contains preliminary results. As documented in Appendix H, the format of the proposal can vary from discipline to discipline and purpose, but in general, you must answer the following essential questions:

- What is the nature of the problem or project? Why is this important, both in terms of what the NSF calls “intellectual merit” (how does this advance the field?) and “broader impact” (how does it benefit society?). This is your introduction.
- What are your specific objectives? Ideally you should frame this as a question and in STEM fields you should normally advance a hypothesis.
- What do you know about the history of the problem/project and different approaches to its solution? What will you add to the existing body of knowledge on this problem/project? These are questions to guide your literature review.
• How will answer your question, verify your hypothesis or solve the specific problem you are addressing? This is you methodology.
• How much have you already achieved? Do you have any preliminary results?
• What is your timeline for completing the project and any “deliverables” along the way? How realistic is your plan for completion? What kinds of problems do you anticipate and what are your back-up plans?

Sample proposals from all previous thesis projects are available in the Honors Office.

Outline of the Research Proposal

The format varies with discipline and purpose, but in general, it must cover the following categories:

• Cover Page
  o General information (see Appendix I)

• Introduction
  o Problem statement describing the general problem
  o Outline specific objectives of the thesis project
  o Document why this is important both intellectually/academically and to society as a whole (“broader impact”)

• Background/Literature Review
  o Conduct a well-organized critical survey of the scholarly literature on the problem
  o Demonstrate that you are well-informed on the topic
  o Identify the conceptual framework for your understanding of the problem
  o Provide a temporal-spatial context for the problem and your investigation/execution

• Methodology
  o Identify your research questions/hypotheses/challenges
  o Describe in detail how you will answer the questions/hypotheses/challenges
  o Present any preliminary findings/achievements
  o Explain how you will analyze/interpret your data or otherwise measure success
  o Describe your expected results

• Expected Outcomes
  o Describe the anticipated results of your work
  o Identify the implications of your results, both scientific/theoretical and practical/applied

• Preliminary results
  o Describe the work you have already done and what you have achieved

• Logistics
  o Describe any funding or special equipment needs
o Develop a “time line”
o Describe any courses that are necessary for developing a curricular background on the thesis topic.

- Bibliography
  o Provide a list of scholarly books and articles on the problem
  o Format appropriately according to professional guidelines

For variations specific to experimental research, engineering project, historical/descriptive studies, qualitative research and creative work, please see Appendix B. We encourage alternative versions of the proposal and the Honors Thesis appropriate to scholarship in the field. We especially encourage you to consider how you can incorporate experiential learning opportunities such as internships or co-ops into the Honors Thesis: for example, organizational research on a company or evaluation research of an intervention or project.

Human Subjects (IRB) Approval
Clarkson University maintains an Institutional Review Board (IRB) with the mandate of protecting the rights and welfare of humans who participate in research. All activities related to research on human subjects must initially be reviewed and approved or exempted by the Clarkson University IRB whether they are conducted by faculty, staff, assistants, students, or any other research collaborator. If your research involves human subjects (for definitions see Clarkson University Policy on Research With Human Subjects), you will need to take the CITI Human Subjects Research Training Course, and prepare your IRB protocol using the official form according to the guidelines provided. Your materials should be submitted to Rebecca Thatcher, IRB Administrative Assistant, CU PO Box 5630, or at irb@clarkson.edu.

Approval by the Research Committee of the Honors Council
Your proposal must be approved by your thesis advisor and the Research Committee, who will review the proposal using a feedback-based rubric (see Appendix G). No oral defense is required. The Research Committee may require revision of the thesis and they will forward any comments, questions, or suggestions to the student and thesis advisor. A failed thesis proposal will mean failure to complete HP390 and may lead to separation from the Honors degree.

Change of Proposed Topic
It is not unusual for the focus of a project to shift as new literature is discovered and more interesting questions emerge, or as methodologies and techniques fail. In fact, this might be a general rule of scholarly research and project work. Although it is often useful to document such changes, these do not require revision of the project proposal. Sometimes, however, a student may want to switch to a new project and perhaps even find a new mentor. If the switch proposes a new question within the same field, drawing upon a similar literature, then the student should submit a petition form along with a 1-2 page addendum, approved by the thesis advisor, providing a rationale for the change in project, with some relevant citations and a supplementary explanation of methodology, as necessary. In cases of a radical change in project and/or a change of advisor, it may be necessary to complete a new proposal, subject to the determination of Director of the Honors Program.

Deadlines
Through its courses and advising, the Honors Program assists students to develop their thesis topics and write drafts in a sequence of assignments that will allow timely completion and approval of
their proposals. It is important to keep up with the requirements in order to avoid falling behind, as it is hard to make up lost time, particularly given the additional demands of senior design and capstone projects in the final year. For this reason, all juniors in the Honors Program must have submitted a proposal, approved by their thesis advisor, by the end of the summer in order to remain in good standing in the Honors Program.

It is quite common for students to go on study abroad or coop in the spring semester of the junior year. In the case of study abroad, it may be possible to enroll in HP 390 and to take the class for credit. In any case, students try to keep with the thesis proposal process by submitting work to a dedicated Moodle page that provides guidelines and deadlines for completion of the components of the thesis proposal.

Research and Scholarship Expenses
The Honors Program has limited funds available to support research and scholarly activities of students working on their Honors thesis, in addition to the Honors Educational Enhancement Scholarship (HEES). Requests may be made by faculty advisors for direct costs that they sustain in supporting a student’s Honors thesis research. It is assumed that HEES will be used to defray the student’s own research expenses, and for travel to professional conferences, costs of publication of the Honors thesis, or other forms of academic enhancement.

Awards of up to $500 will be made on a competitive basis to faculty members who are supervising a student conducting research or project work for their Honors thesis. The number and amount of awards given will vary according to availability of funds. Faculty advisors may submit requests over multiple semesters, but may not receive more than $500 for each student advised. Faculty advisors may submit multiple requests for support, one for each student, and these may be combined, but are not to exceed a cumulative total of $1,500 per year. Faculty advisors must submit the appropriate form justifying the expenditure by the deadline announced each semester. Typical expenses include materials and equipment that are essential to the research project, but are not covered by other research grants.

Faculty and students must complete a "Request for Financial Support" form and submit it to the Honors Program by the announced deadline each semester. This form can be found online at:

http://www.clarkson.edu/honors/research/pdf/summer_research_expense_request.pdf

The form should be used for reimbursement of costs already incurred, but under hardship or exceptional circumstances it may be used for purchase of items by the Honors Program on behalf of the advisor or student. Please provide copies of all receipts for payments and keep all originals in order to facilitate processing of reimbursements and accurate bookkeeping.

Writing the Thesis
If you are looking for help writing your thesis, there are lots of resources online. The Honors Program recommends the following useful books:

Page Length
It is impossible to give a fixed rule about the length of an Honors Thesis, since modes of discourse vary from discipline to discipline. Students should discuss the expected length of the thesis with their advisor. To give some idea of what is expected, in the humanities, theses average 50-75 pages in length and consist of two or more chapters. In the social sciences, the manuscript may be shorter, particularly if the project involves more quantitative than qualitative research. In the hard sciences, the manuscript may be shorter still, often taking the form of an extended journal article, with additional material on literature review and methods.

Format
All pages must be single-sided with margins of text at least one-inch on all sides (excluding header/footer and page numbers only).

Although the content of the Honors thesis varies considerably, the following guidelines must be followed:

1) Title Page (required): The title page should adhere to the format in Appendix I. It does not need to be signed until it has been approved and is ready for “publication.”

2) Executive Summary (required): This should be written in clear concise language and should be 1-2 pages in length. This section should also be paginated using lower-case Roman numerals (i,ii,iii, etc.).

3) Acknowledgements (optional): If you wish to include an Acknowledgements page this should follow the Title Page. It is customary to thank your thesis advisor, thesis reader, family and friends, and anyone whose help and encouragement have assisted you in completing your thesis. Sources of financial support are also typically acknowledged. The Acknowledgements page should be paginated using lower-case Roman numerals (i,ii,iii etc.) continuing from the Executive Summary.

4) Table of Contents (required): You must include a Table of Contents. Page numbers listed in the Table of Contents must correspond with those in the main body of the thesis. The Table of Contents should be paginated continuing from the Acknowledgements using lower-case Roman numerals (i,ii,iii etc.) continuing from the Acknowledgements.

4) Lists of Tables and Figures (optional): You may include a List of Tables, List of Figures or a Glossary. These must refer to correct numbers and titles of tables and figures in the main text. These lists should be paginated continuing from Table of Contents using lower-case Roman numerals (i,ii,iii etc.) continuing from the Table of Contents.

5) Glossary, List of Acronyms etc. (optional): You may include a Glossary of technical terms or List of Acronyms, or other useful front material if you wish. These lists should be paginated continuing from previous lists using lower-case Roman numerals (i,ii,iii etc.) continuing from the Lists of Tables and Figures.

6) Introduction (required): In the main body you must follow an established style manual, which may be one of the main styles (Chicago, Harvard, APA, MLA etc.) or one appropriate to your
discipline or even a particular journal. Check with your faculty advisor. You must be consistent throughout. Regular pagination should begin with the first page of your project.

The body of the thesis must be double-spaced throughout, but single spacing is permitted in footnotes, block quotations, and in tables and figures.

All tables and figures must be titled and numbered sequentially (Table 1… and Figure 1… etc.). Figure captions should appear below figures while table captions should appear above tables.

7) Work Cited (required): The Bibliography or List of Work Cited must also be double-spaced with regular pagination, and it must be consistent with your chosen formatting style.

8) Appendices (optional): Appendices may provide detailed additional information that is not essential in the body of the report but that would be of interest to specialist readers, such as survey instruments, design specifications, and raw data. Appendices should be labeled A, B, C, etc. and given a descriptive title. Appendices are not included in the word count.

Confidentiality of Information
Students sometimes complete a thesis project on an internship or co-op, or otherwise co-operate with private companies or governmental organizations, and these external partners may request confidentiality of proprietary information. Also, sometimes a project completed on campus may be undergoing adaptation for publication and authors may wish to request a delay in release of the thesis.

In this case, the Honors Program will provide a signed confidentiality agreement committing staff to comply with professional confidentiality procedures. Typically, this means that draft and final copies of the thesis will be marked as “Confidential” and made available only to the appointed Reader and the Director of the Honors Program. Both the Reader and the Director will sign the confidentiality agreement, and the thesis will not be provided to the library or distributed to others for a specified length of time. A sample confidentiality agreement is presented in Appendix K.

Use of Materials Copyrighted by Others
Students may use a variety of materials in their Honors thesis, including quotations, tables, diagrams, photos, screenshots and even videos or music recordings. You do not need permission to use works in the public domain (works on which a copyright never existed or on which copyright has expired), but you must acknowledge such works and provide an appropriate citation. To determine if a work is in the public domain, go to the following website:

http://www.copyright.cornell.edu/resources/publicdomain.cfm

If you use copyrighted works, refer to Section 107 of U.S. Copyright law, otherwise known as the fair use doctrine. The fair use of a copyrighted work, including such use by reproduction, for purposes such as criticism, comment, news reporting, teaching, scholarship, or research, is not an infringement of copyright. Again, you must acknowledge the source of the content. In determining whether the use of a work in any particular case is a fair use the factors to be considered shall include:

- the purpose and character of the use, including whether such use is of a commercial nature or is for nonprofit educational purposes;
• the nature of the copyrighted work;
• the amount and substantiality of the portion used in relation to the copyrighted work as a whole; and
• the effect of the use upon the potential market for or value of the copyrighted work.

All four factors must be considered when conducting a fair use analysis. Please use the Fair Use Checklist in making a fair use determination:

https://copyright.columbia.edu/basics/fair-use/fair-use-checklist.html

If the use does not qualify as a fair use, you may not include the material without written permission of the copyright holder. You are solely responsible if you violate copyright law; neither the Honors Program nor Clarkson University will be held liable.

Submission of the Honors Thesis
Your thesis must first be approved by your advisor and this is usually after it has gone through multiple drafts. The draft must be complete, with cover page, table of contents and all figures, tables and appendices. At this point, it does not require signatures on the cover page. You will complete the “Thesis Review Form” (see Appendix J) and obtain the signature of your advisor on this form. It should be scanned and submitted to the Director of the Honors Program together with your thesis in the form of an electronic document, preferably in a common word processing format so that a Reader can conveniently make comments and corrections to the text.

Evaluation of the Honors Thesis
Readers are appointed by the Research Committee of the Honors Council and are selected for their expertise, usually in the field of the thesis or one that is closely related. Normally faculty members at Clarkson are chosen to review the final thesis but occasionally outside reviewers are recruited if the necessary expertise does not exist on campus.

The procedure for review is similar to that used in scholarly publication. In some cases, the reviewer will judge the thesis acceptable “as is” and no further work except for formatting will be required. More usually the reviewer will suggest revisions and provide some guidelines as to how the thesis can be improved, in which case the Reader may want to see the thesis again to ensure that the improvements have been made, or may designate the responsibility to the Research Committee of the Honors Council. The student must address the concerns of the Reader, either by making revisions as suggested or providing a reasoned argument for not doing so.

The decision of the Research Committee of the Honors Council is final and a failed thesis will mean that student does not earn a University Honors Degree.

Presenting and Publishing the Thesis
Although there is no formal defense, all students must present their Honors thesis in a public forum. Customarily, students graduating in the spring semester present at the Research and Project Showcase (RAPS), while those graduating in fall present at a special symposium of the Honors Program. However, students may present to their departments and are encouraged to present at regional and national conferences.

All Honors Theses are archived both in physical and digital copies, and are available for consultation in the Honors Program office and in the library at Clarkson University. We strongly
encourage students to seek publication of the Honors Thesis, whether in peer-reviewed journals—the “gold standard” for academic scholarship—or in other forums. The Huffington Post feature allows students to post a summary of their work without forfeiting copyright. This is a good way to draw attention to your work.

Incomplete Grades
The Honors Program discourages the awarding of Incomplete for HP 490 or HP 491, because this can provide an “unfair” advantage compared to those students who do meet deadlines, and because it creates additional administrative work for advisors and the Honors office. However, we recognize that in some cases problems may arise that are beyond the control of the student and this may cause delay in completing course requirements. If this is the case, and an extension is necessary, the student must submit to the Honors Program a written request for an Incomplete (I) grade providing an explanation for the delay and a plan for completion of the requirements. This request should be endorsed by the advisor and must be received before the deadline for submission of the thesis to the Honors Program. The student is expected to complete the requirements according to the plan agreed upon by the advisor and approved by the Honors Program.
Appendix A

HONORS EDUCATIONAL ENHANCEMENT SCHOLARSHIP (HEES)
Application Form

The Honors Educational Enhancement Scholarship (HEES) provides financial support to Honors students seeking to participate in approved scholarly activities related to their academic and professional goals. You may request up to $1,000 per academic year that you are in good standing in the Honors Program. For eligibility and approved activities see: http://www.clarkson.edu/honors/hees.html

A complete application contains the following and should be submitted to honors@clarkson.edu:

Section 1: Personal Information
Section 2: Explanation of Activity (a supplemental essay is required)
Section 3: Endorsement (an additional letter may be attached)
Section 4: Budget
Section 5: Detailed plan for sharing your experience, as approved by Honors staff
Section 6: Résumé and Supporting Documents
Section 7: Signature

Section 1: Personal Information

Student Name ____________________________ Year/Semester entered Honors ____________

Section 2: Explanation of Activity (must be attached to paper or email application)

Short Title of Activity: ______________________________________________________________

Location(s): ___________________________ Inclusive Dates: _______________________

Attach a 1-2 page persuasive statement to support your funding request describing the activity and explaining how it fits in with your academic and professional goals. Explain why you need funding to support the activity and why the Honors Program should fund it.

Section 3: Endorsement (additional letter may be attached)

Applications will not be considered without endorsement from a sponsor, either a faculty member at Clarkson or your academic advisor. Applicants are encouraged to strengthen their application with a letter of support from a faculty member or their academic advisor

Name: ____________________________ Title: __________________________

Department/ Institution: ____________________________ Email: __________________________

Signature: ____________________________ Date: __________________________

Letter of recommendation attached ___ Letter of recommendation sent separately ___

Section 4: Budget (must be included)

The Honors Program will generally fund travel based on the rates laid out by the State Department, although we reserve the right to cap these amounts at our discretion. These rates can be found at the following websites: http://www.gsa.gov/portal/content/104877 and https://aoprals.state.gov/web920/per_diem.asp.

Provide a complete accounting of expenses in the table below or attach a similar spreadsheet.
<table>
<thead>
<tr>
<th>Item</th>
<th>Vendor, Provider or Payee</th>
<th>Quantity</th>
<th>Cost per Unit</th>
<th>Total Cost</th>
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</table>

TOTAL

Amount Request from Honors: $ ________________  Amount from other sources: $ ________________

Sources of Other Funding (list): ___________________________________________________________

Reimbursement:
- Clarkson Account to Reimburse: _________________________________
- Check Payable to: __________________________________________

Section 5: Detailed Plan for Sharing, endorsed by Honors staff member (must be included)
Attach a detailed plan to share what you expect to learn from this opportunity with the Honors Program and/or the broader Clarkson community. This is in addition to the required short report and photograph. Note also that students who use HEES funding while on leave (e.g. study abroad) must propose an activity additional to the report and PPDP presentation required to receive credit for the missed Honors course. For example, they might commit to present a poster at an Honors event such as Open House. Prior consultation of an Honors staff member is required.³

Approved: ___________________________________________  Date: __________________________

Section 6: Supporting documentation (a résumé must be attached)
You must attach your résumé and may attach any additional supporting documents and/or letters of support that will strengthen your request. For reimbursement, you must include all receipts and/or invoices, conference brochures, confirmations of attendance/registration etc.

Section 7: Signature
Please carefully read the following and sign below.

The information on this application and the attached forms are, to the best of my knowledge, correct and complete. I am not asking for more than $1,000 during this academic year and my total support will not have exceeded $2,000 during my tenure in the Honors Program. If I am the successful recipient this award funding, I authorize the Honors Program to publish my photograph, name, and project description, as well as to quote from my written report. In submitting this application, I understand that this information (along with subsequent information placed in my student records) will be used for the purpose of determining eligibility for receiving this award funding and other purposes consistent with the mandate of the institution. This information will be protected and only used in compliance with the Freedom of Information and Protection of Privacy Act.

Signature: __________________________________________  Date: ___________________

³ Please consult Jenny for PPDP and FY100 and Marcy for open houses, fireside chats, videos, story. For other plans you can ask any Honors staff member. Please note: we may ask you to adapt/change your plan depending upon the needs of the Honors Program.
Appendix B

VARIATIONS ON THE HONORS THESIS

Each thesis will differ according to field and individual decision-making and the following outlines are meant to be generic guidelines only.

EXPERIMENTAL STUDY

Abstract
Introduction
1. Problem statement
2. Objectives
3. Scientific significance and broader impact

Literature Review
1. Relationship of study to related research
2. Critical analysis of pertinent research

Methodology
1. Experimental design (include methods and materials)
2. Subjects to be used, if appropriate
3. Measures used (surveys, interviews, psychological instruments, protocols, etc.)
4. Ethical considerations

Results
1. Presentation of data
2. Analysis of data

Implications and Conclusions

List of References

ENGINEERING DESIGN PROJECT

Introduction
1. Problem definition (design requirements, specification and constraints)
2. Objectives
3. Statement of need and social significance

Literature Review
1. Current status of the art (review of existing products, solutions or technologies)

Technical Approach
1. System level description of project
2. Alternative solutions and/or design concepts

Project Management
1. Tasks and deliverables
2. Timeline
3. Resource needs and/or budget
4. Qualifications

Outcomes

Conclusion

List of References

DESCRIPTIVE OR HISTORICAL STUDY

Abstract
Introduction
1. Problem statement
2. Objectives
3. Scholarly and social significance

Literature Review
1. Relationship of study to related historical/descriptive research
2. Critical analysis of pertinent literature research

Methodology
1. Identification of secondary and primary sources
2. Description of means of interpretation/analysis of resources

Results
1. Presentation of data
QUALITATIVE STUDY

Abstract

Introduction
1. Problem statement
2. Objectives
3. Scholarly and social significance

Literature Review
1. Relationship of study to related research
2. Critical analysis of pertinent literature research

Methodology
1. Sample selection
2. Data gathering technique
3. Data analysis methods
4. Ethical considerations

Results
1. Presentation of data
2. Analysis of data

Implications and Conclusions List of References

CREATIVE PROJECT

Introduction
1. Project Statement
2. Objectives
3. Value

Literature Review
1. Overview of critical literature on form and genre
2. Examination of precedents and influences

Methodology
1. Discussion of technique and how it will be used to achieve aims/effects
2. Challenges and constraints
3. Outline of the mode of presentation

Outcomes

Implications and Conclusions

List of References

BUSINESS PLAN

Executive Summary
Introduction
1. Mission
2. Business Model
3. Strategic Plan
4. SWOT Analysis

Organizational Plan
1. Administration and Personnel

Marketing Plan
1. Marketing Analysis
2. Marketing Strategy

Financial Plan
1. Financial Needs Analysis
2. Projections of Revenues and Profits

Outcomes

Implications and Conclusions
Appendix C

THE HONORS CO-OP THESIS

Introduction (min. 5 pages)
Provide an overview of the company: its history, organization, and the main products/services that it makes/provides. Describe your department(s), its function and how it fits into the organization. Provide an overview of your assignments, duties and schedule of activities. You should also provide any other information helpful to the reader by way of background to your project.

The Reflective Essay (min. 10 pages)
Reflect critically on the work experience, particularly in terms of our personal and professional development: describe your expectations, degree of satisfaction, relevancy to your personal/professional goals, difficulties and challenges, degree of supervision/responsibility, relationship to coursework, personnel relations, and teamwork experiences etc. Describe the insights you have made and the lessons that you learned during your experience.

The Technical report (min. 10 pages)
The exact contents of the Technical Report depend upon the nature of the project and it can take a number of forms. It is a self-contained, descriptive and analytical report written in a format and style suitable for publication in a technical journal. It should include appropriate references to sources and diagrams/illustrations. Topics might include:

The design, development, manufacture, or testing of equipment or products with which the student was associated while on the job—e.g. “Integrating a Thermocouple into an Injection Molding Hot Runner Nozzle Assembly” (Devin Vargo, 2012)

A detailed account of the development of a technical process with which the student was associated—e.g. "Reactive Liquids for Chemical-Mechanical Planarization” (Stephen Waud, 2001)

An analysis of organizational behavior in the company or department to which the student is assigned— e.g. "Alignment and Its Relationship to Organizational Culture and Structure” Sean Lebel, 2005)

A proposal for a technical or organizational innovation that you would like to see implemented at the company—e.g. “Open Source Opportunities in the Business World” (Matthew Rizzolo, 2003)

NOTE: If your supervisor feels this technical report should not be released due to extremely confidential and proprietary content, you will need to have a confidentiality agreement between the company and the Honors Program and Clarkson University.

A digital copy of the thesis must be submitted together with a hard copy of a Thesis Review Form signed by both advisors. The Thesis will be reviewed by an appointed independent Reader who is a member of the Clarkson University faculty.

Approved by the Honors Council February 28, 2014
Appendix D

BUSINESS STUDIES THESIS

Business Research Thesis
Business research should result in a study using one or a combination of these models in design.

Experiment with human subjects
This type of thesis will ultimately look much like a research article intended for publication. This type of research can take the form of a lab experiment, interviews or survey research. In either case, the student will show an understanding of the relevant academic literature, will use validated research methods, and pass IRB approval.

Business-data-driven econometric study
This type of thesis will also look much like a research article intended for publication. The student’s role can center either on collecting data, or if the data already exist, in analyzing the data. Publications typically use advanced econometric methods that are not taught in undergraduate courses. As a result, the student will often have to learn these methodologies independently. The methodology should be discussed more extensively than is usually necessary in journal articles, and, hence, the thesis might be longer than an article in an academic journal.

Field Study
The Field Study thesis typically involves spending time within an organization. The thesis often develops out of a student internship, which can present a challenge when an internship does not begin early in a student’s education, compressing the time complete the thesis. Honors students doing a field study thesis are thus strongly encouraged to seek internships early.

Business Plan/Entrepreneurship Thesis
The entrepreneurship thesis is very different from that of other business theses. The entrepreneurship thesis will usually take the form of a business plan, or the creation of an actual business. This type of thesis presents a distinct challenge: while professors are good at judging the quality of research, it is more difficult to judge the quality of a business plan, or a business. Some successful businesses have extensive business plans; others have a simple, cursory plans, and some have no business plan at all. Still, current entrepreneurship theory recommends approaching a new venture with an approach similar to that of a scientist.

Begin with a testable hypothesis about market conditions (people will be willing to pay a price of $P$ for an envisioned product, and it will cost substantially less than $P$ to make said product). Test the hypothesis: This can entail some sort of market research, surveying potential customers, etc. but, when possible, it should also involve creating a working prototype (or minimum viable product). Revise and retest the hypothesis. Ultimately, the successful business plan thesis will ideally have:

- A tangible product.
- A working idea of unit economics (what it will cost to produce the product, an idea of what kind of price can be reasonably be charged for the product, and what kind of volume will be necessary to be profitable).
- An understanding of how the business will be financed.
- A deep understanding of what needs to happen for the business to succeed.
HONORS THESIS STUDENT AGREEMENT

The student is responsible for meeting the thesis requirements of the Honors Program, which includes the required courses, HP 390 and HP 490, and research, writing, and presentation of the thesis itself. By signing below, the student acknowledges that he/she understands the requirements as documented in the Honors Program Handbook and agrees to meet the commitments:

I will develop a focused and feasible project to which I am genuinely committed and for which I am properly prepared.

I will find a faculty advisor to advise me. My advisor should be genuinely interested in me and my project and have demonstrated qualifications to mentor me on my project. I am responsible for securing a signed “Advisor’s Agreement” that is to be submitted to the Honors Program.

I will be responsible for developing and maintaining a good working relationship with my advisor. I will ensure that my advisor and I have a shared set of expectations about the thesis research and writing process. We will agree to a schedule of activities and deadlines for completion of the components of my thesis.

I will meet regularly with my advisor. I will be on time and come prepared for each meeting. I will have completed assignments and be ready to ask specific questions or engage in particular topics of discussion. If I cannot make a meeting or meet a deadline I will inform my advisor in advance.

I will regularly submit reports of my work and drafts of my writing so that my advisor can give me feedback and guidance. I will respect my advisor’s experience and expertise, and will be expected to respond positively and promptly to his/her advice. I may disagree and may receive conflicting advice from multiple advisors, and in such cases I will make open and informed choices that I will be able to explain and justify.

I will respond in a timely fashion to all communications from my faculty advisor and the Honors Program, and apprise them of any anticipated problems or changes in my project. Should any breakdown in communication occur or any serious obstacles develop in my thesis project, I will immediately inform the Director of the Honors Program and seek assistance.

I will conduct research responsibly and ethically. I will not plagiarize nor commit any kind of fraud. I will make clear the distinction between my own original contribution and the work of a team or other individuals. I will cite and document sources, and write quotations, summaries, and paraphrases with care so as to distinguish my ideas and words from those of other writers.

I will write my thesis according to professional standards of my field. My work should be of publishable quality. I will ensure that all drafts of my work are grammatically correct and thoroughly proofread before submitting them for review to my advisor and/or the Honors Program.

Student’s name: _____________________________________________________

Signature/Date: _____________________________________________________
Appendix F

AGREEMENT TO SERVE AS ADVISOR FOR AN HONORS THESIS

Student’s name: ____________________________________________________________

Major(s): ________________________________________________________________

Project title: __________________________________________________________________

Advisor’s name: _____________________________________________________________

Title: ______________________________________________________________________

Department: __________________________________________________________________

Email: ___________________________ Phone: _____________________________

I am familiar with the instructions for the Honors Thesis included in the Honors Program Handbook and I agree to act as thesis advisor for this student and to provide guidance as described in the document “Serving as an Advisor for an Honors Thesis Project.”

Signature: ___________________________________________ Date: _____________

Endorsement:

In case the advisor is not a full-time tenure track faculty member at Clarkson University, the chair of the major department must approve of the student’s choice of advisor. By signing below you affirm that based on your knowledge the advisor is qualified to supervise an Honors thesis in this field.

Signature: ___________________________________________ Date: _____________
Appendix G

RESEARCH PROPOSAL COVER SHEET

Student Name: _____________________________________________________________

Class: _______________  Major(s): _____________________________________________

Advisor Name: __________________________ Title: ___________________________

Department: ______________________________________________

Project Title: ____________________________________________________________

Abstract of Research Plan (max. 200 words):

___________________________________________________________

Student Signature/Date

___________________________________________________________

Faculty Advisor Signature/Date

___________________________________________________________

Director Signature/Date
Appendix H

EVALUATION OF HONORS THESIS PROPOSAL

Project title: ____________________________________________________________

Student: ________________________  _____  Advisor: ___________________________

<table>
<thead>
<tr>
<th>Component</th>
<th>Exceeds</th>
<th>Meets</th>
<th>Rework</th>
<th>Comments</th>
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</thead>
<tbody>
<tr>
<td>Introduction: Clear statement of an original problem, objectives and</td>
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<tr>
<td>social/scientific significance</td>
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<tr>
<td>Literature Review: Project is properly contextualized within current</td>
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<td>literature in the field</td>
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<tr>
<td>Question: Clear and succinct articulation of question to be answered</td>
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<tr>
<td>Methodology 1: Detailed description of research design, instrumentation</td>
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<td>and data collection</td>
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<td>Methodology 2: Appropriate consideration of ethical issues, validity and</td>
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<td>reliability, and limitations to the study</td>
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<td>Methodology 3: Sound means of analysis of data and interpretation of</td>
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<td>results</td>
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<tr>
<td>Feasibility: Realistic plan for completion of project</td>
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<tr>
<td>Overall: Proposal is written according to professional standards in the</td>
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<td>field</td>
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Evaluator name: ________________________________

Signature: ________________________________ Date: ________________
Appendix I  
EVALUATION OF NON-TRADITIONAL HONORS THESIS PROPOSAL

Project title: ____________________________________________________________

Student: ______________________________________________________________

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>EXCEEDS</th>
<th>MEETS</th>
<th>REVISE</th>
<th>COMMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conceptualization – Scope is appropriate and nature of the problem or project is clearly articulated</td>
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<tr>
<td>Motivation – Student convincingly presents the theoretical and practical significance of the problem or project</td>
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<tr>
<td>Literature Review – Student provides a critical narrative account with appropriate citations of relevant works</td>
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<tr>
<td>Methods/Approaches – Student presents a coherent approach to the problem/project, acknowledging alternatives and justifying his/her choices</td>
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<tr>
<td>Expected Results – Student discusses expected outcomes, anticipating problems and suggesting alternatives as necessary</td>
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<tr>
<td>Feasibility – Student presents a realistic plan for completion of project</td>
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<tr>
<td>Overall – Proposal is written according to professional standards in the field</td>
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Evaluator name: ______________________ Signature:_________________________ Date: _____


Appendix J

Clarkson University

[Title]

A Thesis by

[Your Name]

Department of [Your Department]

Submitted in partial fulfillment of the requirements for a

Bachelor of Science Degree with

University Honors

[Month] [Year]

Accepted by the Honors Program

__________________________  ____________________
Advisor ([Name])  Date

__________________________  ____________________
Honors Reader ([Name])  Date

__________________________
Interim Honors Director (John Moosbrugger) Date
Appendix K

THESIS REVIEW FORM

Directions for student: Complete this section of the form and obtain your advisor’s signature. Submit the signed form and a digital copy of your thesis to the Honors Program.

Student Name: _______________________________________________________________________

Project Title: _______________________________________________________________________

I’ve read the attached thesis and approve it for review by the appointed Reader.

Thesis Advisor: ___________________________ Date: ______________

Directions to the reader: Please check the appropriate box and return this form to the Honors Program within 2 weeks. Should you require revisions please indicate these separately (e.g. email or attached document) and provide suggestions for improvement.

☐ The draft manuscript will not be reviewed in its present form because it contains formatting, spelling, and/or grammar errors that preclude review of its technical content.

☐ Major revisions are required as noted separately (see _________________________)

☐ Minor revisions are required as noted in the draft manuscript (see _________________________)

☐ No revisions are required.

If revisions are required:

☐ I am withholding my approval of the written thesis at this time. I wish to review and approve the corrected thesis before it is put on display. (Do not sign below)

☐ I do not wish to review the corrected thesis before it is put on display. Providing that the student adequately addresses the editorial comments I have made, I approve the written thesis for display. (Sign below)

Reader Name ___________________________ Signature ___________________________ Date ___________________________
SAMPLE CONFIDENTIALITY AGREEMENT

REASON FOR CONFIDENTIALITY (Please check)

☐ Publication of the thesis or portions thereof is pending.
☐ Proprietary information is involved.
☐ Other (Please specify) __________________________________________________________

Student Name: _____________________________ Signature: _____________________________

Advisor Name: ____________________________ Signature: _____________________________

Thesis Title: _______________

______________________________________________________
______________________________________________________________________________

The confidential information shall be used by the Reader appointed by the Honors Program and the Director the Honors Program only for the purpose of examination of the thesis as part of the requirements of the Honors Program in which the student named above is enrolled. The Reader and the Director agree to take all action reasonably necessary to protect the confidentiality of the confidential information by implementing and enforcing operating procedures to minimize the possibility of unauthorized use or copying of the confidential information.

The confidentiality of this information will be maintained until such a time as thesis becomes part of the public domain, which shall be ________________.

Reader’s Name: __________________________ Signature: ___________________________ Date: ______

Interim Director: John Moosbrugger Signature: __________________________ Date: ______