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GENERAL INFORMATION

Welcome to the Earth Sciences Department at Memorial University of Newfoundland. Memorial has one of the largest and most diverse Earth Science departments in Canada. With 28 faculty members, 18 staff members, and leading-edge teaching and research facilities, the department is able to offer high quality undergraduate and graduate degree programs. Graduates of Memorial’s Earth Sciences department have gone on to careers in academia, government, and the private sector.

The Province of Newfoundland and Labrador is an excellent natural laboratory in which to study Earth sciences, hence, many of our courses have field-based components. The cross section of geology that can be studied in Newfoundland and Labrador spans a large part of Earth’s history. Our department’s long-standing, excellent reputation is, in part, due to its close proximity to this world-class geology.

Our faculty and their students, both undergraduate and graduate, and post-doctoral fellows, are engaged in applied and basic research projects in virtually all major areas of Earth sciences throughout the world. Some faculty are engaged in research in the offshore of Newfoundland and Labrador, in marine and petroleum geology, and in exploration geophysics as it pertains to oil and gas resources. Others are researching mineral resource development, water resources, impacts of climate change, and other environmental issues in the Province and elsewhere. Yet others are involved in questions pertaining to planetary sciences.

The Earth Sciences department at Memorial University maintains close ties to the mining and petroleum industries of Canada, the USA, and elsewhere. Each year, leading petroleum and mineral exploration companies preferentially recruit in our department because of the excellent education and training our students receive. Our alumni work in diverse disciplines in companies and fieldwork all over the world. Many of our undergraduate and graduate students find government and industry employment/internship opportunities during the summer within the Province and elsewhere in Canada.

Our department also participates in an interdisciplinary graduate program in Environmental Sciences. With the pristine boreal and sub-arctic terrestrial and marine environments throughout the Province, and the growth in natural resource exploitation and human activities, there are unlimited opportunities in this specialty.

The Details: Keeping Up To Date

This document contains information specific to Graduate programs in the Earth Sciences Department, and is, in part, modified from the University Calendar. This handbook is accurate at the date of issue (October 2012). In the event of a conflict between the content of this document and the University Calendar, the regulations in the University Calendar have precedence. Where relevant, links to specific parts of the University Calendar are provided.

The University reserves the right to make changes to the regulations, fees and charges. It is the student’s responsibility to be aware of these changes (see University Calendar) and the applicable deadlines (see University Diary). Students should also become familiar with the School of Graduate Studies General Regulations, the degree regulations and relevant departmental policies (see University Calendar).
Communication

The University has a single e-mail policy. All official communication should be conducted through an @mun.ca address.

GRADUATE PROGRAMS SUPERVISED BY FACULTY IN EARTH SCIENCES

There are five graduate programs in the Department of Earth Sciences:

M.Sc. in Earth Sciences, Geology
M.Sc. in Earth Sciences, Geophysics
Ph.D. in Earth Sciences, Geology
Ph.D. in Earth Sciences, Geophysics
M.Sc., Environmental Science (a thesis/research-based Masters)

REQUIREMENTS FOR ADMISSION TO GRADUATE SCHOOL

Details of the qualifications for admission can be found in the General Regulations governing the School of Graduate Studies in the University Calendar.

APPLICATION PROCEDURE

Details of the application procedure and access to the web application forms can be found at the School of Graduate Studies web site. Paper applications are also available on request.

TUITION AND FEES

Please see the university regulations concerning the payment of university fees and charges. Tuition fees, residence fees, student union fees and health/dental insurance are due once a student registers regardless of the method of registration, and must be paid by the fee deadline to avoid a late payment penalty.

There is a minimum fee for a graduate degree. The amount of this fee for all Canadian and international students will depend on the semester fees in effect during his or her period of registration. Semester fees are subject to review at least annually. For current fees visit the following webpage from the University Calendar, section 2.3. At the time of first registration, a master’s candidate must select a payment plan. Once selected the payment plan will remain in effect for the duration of the student’s period of registration and cannot be changed.

A student who completes his or her program in a period of time shorter than that covered by the selected payment plan will, in their final semester, be required to pay the amount owing. A student whose program extends beyond the period covered by the selected payment plan will be charged a continuance fee for each additional semester of registration. Tuition fees can be deducted from graduate student funding by completing the Payroll Deductions Form (Graduate Student Deduction Authorization Form). This form can be obtained on-line, from the Cashier’s Office (A1023), or from the School of Graduate Studies. Remember to fill out a new form each academic year to ensure that the tuition fees are deducted from your biweekly funding payment. Please check the registration booklet for the deadline date for paying fees to avoid paying a late penalty.
**GRADUATE PROGRAM INFORMATION, PROCEDURES, POLICIES AND REGULATIONS**

**M.SC.PROGRAM POLICIES AND REGULATIONS**

This section is, in part, modified from the University Calendar. The complete regulations are available online.

I. Admission into a Master's degree program in Earth Sciences (Geology) and Earth Sciences (Geophysics) is restricted to candidates holding at least a B.Sc. degree with second class Honours. When circumstances warrant, this requirement may be waived by the School of Graduate Studies on the recommendation of the Head of the Department.

II. The candidate will be assigned a multi-member supervisory committee. This committee shall consist of the Supervisor and at least one other member.

Within two weeks of registration in the M.Sc. Degree program, a candidate will meet with his/her supervisory committee.

Within six months, the student and the supervisory committee will agree on a written thesis proposal outlining the objectives, methods, timetable and funding for the project, and provide the proposal (signed by the student and supervisory committee) to the Head for inclusion in the student's file.

The M.Sc. thesis proposal should contain:

- Thesis title
- Introduction- outlining the scientific problem to be addressed in the thesis
- Literature review- should be a thorough review of existing literature pertinent to the subject matter of the thesis
- Methods- field and/or analytical techniques to be used in the course of the study
- Timeline- a REALISTIC timeframe for completion of the thesis including:
  - Timing of field seasons
  - Time for laboratory analyses
  - Time needed for data interpretation
  - Time for thesis writing- indicating whether a conventional thesis or by papers
- Summary of resources needed for fieldwork and analyses

**The thesis proposal should be not more than 5,000 words in length**

At six months into the program MSc students will attend a meeting with the Head of Department (or delegate) and Manager of Academic Programs (scheduled by the assistant to the Head of Department). Meetings will be held earlier if the normal meeting at 6 months into the program interferes with fieldwork. The meeting will not normally be postponed.

At the meeting the student will be expected to present:

1) A thesis proposal along with a [M.Sc. Thesis Proposal Submission Form](#).
2) A completed Graduate Student Annual Progress and Supervisory Report Form.

This is a School of Graduate Studies requirement, and the form will NOT receive departmental approval until after this meeting.

NOTE! A timeline to completion must be included as addendum to the form.
Subsequent meetings at 12, 24 and 36 months into the program will be triggered by non-receipt of Annual Progress and Supervisory Report Form or any irregularities in progress (e.g. courses not completed, thesis proposal not submitted, progress not satisfactory etc... ). Students may also request annual meetings with the Manager of Academic Programs and Head of Department if necessary.

III. A candidate for the M.Sc. degree must complete a minimum of 6 credit hours in program courses. The courses must be EASC 6000 or EASC 7000 level courses or, with the approval of the supervisory committee and Head of the Department, graduate level courses offered by other departments. Depending on their background and/or area of specialization, a candidate also may be required to complete additional courses in earth sciences or related subjects.

IV. All course requirements should normally be completed within one year from the date of registration in the M.Sc. degree program.

V. A candidate is required to give an oral presentation to the Department on the results of his/her research. This presentation must be given during the second year of the program and must take place within the Graduate Student Seminar Series.

VI. The M.Sc. degree program will conclude with a thesis examination as prescribed in the General Regulations governing the M.Sc. degree (the MSc Thesis Submission Procedures are outlined in full in the University Calendar).

VII. The Supervisor and the Head of the Department may recommend to the Dean of Graduate Studies that a candidate who is not making satisfactory progress be terminated from the program.

PH.D. PROGRAM POLICIES AND REGULATIONS

This section is, in part, modified from the University Calendar. The complete regulations are available online.

I. Each candidate is required to pass a comprehensive examination.

The Comprehensive Examination is carried out under the auspices of the School of Graduate Studies. This examination, whether written or oral, shall be conducted by a Committee appointed by the Dean of Graduate Studies on the recommendation of the academic unit. It shall consist of the Head of the academic unit (or delegate) who shall be the Chairperson, the candidate's Supervisor [or, where a Supervisor has not yet been appointed, the Graduate Officer or Chair of the Graduate Studies (or equivalent) Committee], the Dean of Graduate Studies (or delegate), and at least three other members, the total voting members to be an odd number. All members of the Committee including the Chairperson, but excluding the Dean of Graduate Studies, shall be voting members.

The purpose of the Comprehensive Examination is to ascertain that the candidate has a mastery of those sub-disciplines appropriate to his/her research area. The candidate
must further be able to relate the specialization of his/her research to the larger context of these sub-disciplines.

II. Each candidate shall present a thesis embodying the results of original research.

III. The Departmental policies concerning the number and specific credit hours that may be required for a program are outlined below.

**Departmental Policies**

This section is, in part, modified from the University Calendar.

I. Admission into the Ph.D. program in Earth Sciences (Geology) and Earth Sciences (Geophysics) is normally restricted to candidates holding a Master's degree or its equivalent. However: i) candidates holding a B.Sc. (Honours) degree who show evidence of exceptional ability may be considered for direct entry into the Ph.D. program; and ii) in exceptional circumstances, a candidate with a B.Sc. (Honours) degree who has spent not less than 12 months in an M.Sc. degree program may be recommended for transfer into a Ph.D. program, provided that the candidate can demonstrate, to the satisfaction of the Department of Earth Sciences, his/her ability to pursue research at the doctoral level.

II. Within the first month in the Ph.D. program, the candidate will meet with their Supervisory Committee. The purpose of this meeting is to draw up the candidate's program of study and research and to determine whether their background is appropriate for the proposed course of study.

III. A candidate for the Ph.D. degree is required to complete 6 credit hours in addition to the credit hours required for the M.Sc. Degree. The courses will normally be selected from the graduate courses offered in the Department of Earth Sciences; however, graduate courses offered by other departments can also be selected with the approval of the supervisory committee and Head of Department. Depending upon the recommendation of the Supervisory Committee, the candidate may be required to take additional courses to improve their earth sciences background. All course requirements should normally be completed within the 12 months following registration in the Ph.D. program. Only those courses specified by the supervisory committee are required for a graduate degree program in Earth Sciences.

IV. The Ph.D. Comprehensive Examination will normally be taken no later than the end of the first semester following the student's registration in the Ph.D. program. Note: Detailed descriptions of the Ph.D. Comprehensive Examination are included below.

V. At six months into the program Ph.D. students will attend a meeting with the Head of Department (or delegate) and Manager of Academic Programs (scheduled by the assistant to the Head of Department). Meetings will be held earlier if the normal meeting at 6 months into the program interferes with fieldwork. This meeting will not normally be postponed.

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\(^1\) A selection of courses will be offered to meet the requirements of candidates as far as the resources of the Department allow.
At the meeting the student will be expected to present a completed Graduate Student Annual Progress and Supervisory Report Form. This is a School of Graduate Studies requirement, and the form will NOT receive departmental approval until after this meeting.

NOTE! A timeline to completion must be included as addendum to the form.

Subsequent meetings at 12, 24 and 36 months into the program will be triggered by non-receipt of Annual Progress and Supervisory Report Form or any irregularities in progress (e.g. courses not completed, comprehensive examination not completed, thesis proposal examination not completed etc.). Students may also request annual meetings with the Manager of Academic Programs and Head of Department if necessary.

VI. The Thesis Proposal Examination will normally be taken no later than four semesters following the student’s registration in the Ph.D. program. Note: Detailed descriptions of the Thesis Proposal Examination are included below.

VII. A Ph.D. candidate is required to give an oral presentation to the Department on the results of his/her research. This presentation must be given during the second or third year of the program, and may consist of completed work, or work in progress. The presentation must take place within the Graduate Student Seminar Series (GS³).

VIII. The Ph.D. degree program will conclude with a thesis examination and an oral defence of thesis as prescribed in the General Regulations (the PhD Thesis Submission Procedures are outlined in full in the University Calendar).

IX. The Supervisor and the Head of the Department may recommend to the Dean of Graduate Studies that a candidate who is not making satisfactory progress be terminated from the program.

Ph.D. Comprehensive Examination

I. The Ph.D. Comprehensive Examination consists of one paper to be written by the candidate, approximately 6,000 words in length (~20 pages double-spaced not including references and figures), that reviews the current state of research in a topic close to, but not directly overlapping with, the candidate’s research area. This paper is subsequently presented orally by the candidate (see V-VII below). The topic is to be decided by the examination committee. The student will be invited to attend the examination committee meeting to ensure that the scope of the research topic is clear to all examiners and the student.

II. The candidate may, while preparing the above paper, discuss generalities related to the above topics with his/her advisor and/or examination committee members during the period of paper preparation, but the advisor and/or examination committee members will not review, edit, or comment directly upon the manuscript in preparation.

III. The choice of topic for the Comprehensive Examination is to be made within one month of the candidate’s arrival at MUN, allowing 3 months for completion. The first-semester deadline is preferable for students with little field work in their first year, and for whom English is the first language. The second-semester deadline is available in
cases of students with intense first-year field programs, or those for whom English is a second language.

IV. The candidate is examined orally by the examination committee normally in the two weeks after submission of the paper.

V. The oral component of the Comprehensive Examination is a closed examination involving a 20-30 minute oral presentation of the research paper by the candidate, followed by questioning by the examination committee on the essay topic.

VI. The duration of the examination will not normally exceed three hours.

VII. Members of the Comprehensive Examination Committee shall decide the results of the comprehensive examination based on regulations specified in the University Calendar, “Ph.D. Comprehensive Examination” (3.8.2). Four options are available to the examining committee: Pass With Distinction (requires a unanimous vote), Pass (requires a majority vote), Re-Examination (requires a majority vote), and Fail (requires a unanimous vote).

VIII. If the student passes the Comprehensive Examination, the student begins preparation for the Thesis Proposal Examination which will normally be taken at the end of the following semester (i.e. within about 14 weeks).

IX. If the student fails the Comprehensive Examination, their program is terminated.

X. If the student passes the Comprehensive Examination, but gaps or weaknesses in the student’s knowledge are identified, the student may be required by the examination committee to take and achieve a minimum of a B grade in all additional recommended course(s). The committee may also recommend reading to remedy the deficiencies.

**Ph.D. Candidate’s Right to Appeal**

University regulations allow the candidate to appeal the decision of the Dean of the School of Graduate Studies who communicates the results of the exam to the candidate. An appeal should be directed to the Chair of the Appeals Committee in care of the School of Graduate Studies (see the University Calendar for details 3.6.2).

**Thesis Proposal Examination**

The Thesis Proposal Examination is a departmental requirement conducted within the Department of Earth Sciences. The Examination Committee (and if necessary the Re-examination Committee) will normally consist of the same members as recommended by the Head of Earth Sciences for the Comprehensive Examination. The voting members will be the three appointed examiners. The Chair and Supervisor are present as non-voting members of the examining committee. Co-supervisors may attend the public and closed door portions of the examination in an observational capacity.

The purpose of the Thesis Proposal Examination is to ascertain that the candidate has sufficient knowledge and comprehension in the area of the proposed research project. The entire field of knowledge necessary for the thesis to be carried out is open to questioning.
I. The Thesis Proposal Examination consists of two parts: a written proposal of no more than 7,500 words (25 pages double-spaced, not including figures or references) describing the background to the proposed research, the research questions or objectives, the methods to be followed, the novelty and significance of the research, appropriate time lines, and estimated analytical and field costs; and an oral defence of this proposal. The student is expected to consult with their supervisor and members of the Supervisory Committee during the preparation of the thesis proposal. However, the actual writing of the proposal is to be done only by the student.

II. The candidate shall distribute one copy of the thesis proposal at least one week prior to the Thesis Proposal Examination to each of the following: Head of the Department of Earth Sciences, each member of the Supervisory Committee and each member of the Examination Committee.

III. The oral component of the Thesis Proposal Examination involves: a 20-30 minute oral presentation of the research proposal by the candidate to the department. This is followed by a short period of questioning from the floor. This public round of questioning is followed by closed-door questioning by the examination committee on all aspects of the proposal. General questions to be asked during the Thesis Proposal Examination are to be discussed in advance by the Examination Committee, but—depending on the responses by the candidate—examiners are free to pursue questioning as they deem appropriate. Although there might be instances when other members of the Committee are unclear as to the ‘correct’ answers, all voting members of the examining shall attempt to grade the candidate’s performance.

IV. The duration of the examination will not normally exceed two hours.

V. Members of the Comprehensive Examination Committee shall decide the results of the thesis proposal examination. Four options are available to the examining committee: Pass With Distinction (requires a unanimous vote), Pass (requires a majority vote), Re-Examination (requires a majority vote), and Fail (requires a unanimous vote). VI. In the event of a passing grade, the student is required to make any changes to the thesis proposal required by the examining committee and submit a final version, along with a Ph.D. Thesis Proposal Submission Form to the Manager of Academic Programs for inclusion in the student’s file.

VII. In the event of a failing grade, the candidate is permitted one additional opportunity to submit a Revised Thesis Proposal for examination. Submission of the Revised Thesis Proposal will normally take place by the end of the semester following the original Thesis Proposal Examination (i.e., within about 14 weeks). The re-examination will follow the format of the original thesis proposal examination.

VIII. The members of the re-examination committee examine the Revised Thesis Proposal in the same way as the original thesis proposal, and grade it in one of the following ways, as appropriate: Pass / Fail (To be decided by simple majority of the voting members of the Thesis Proposal Examining Committee).

IX. If the student fails the re-examination of the Revised Thesis Proposal, their program is terminated.
X. After the candidate has passed the Comprehensive and Thesis Proposal examination, if the nature or scope of the research project changes substantially from that in the original proposal, then the student must submit a second thesis proposal before continuing in the program. The decision to require a second thesis proposal examination will be the responsibility of the thesis supervisor in consultation with the Supervisory Committee and the departmental Graduate Officer.

ENGLISH PROFICIENCY FOR ENGLISH AS A SECOND LANGUAGE (ESL) STUDENTS

This section is, in part, modified from the University Calendar to make it specific to the Earth Sciences graduate programs. The complete regulations can be found online (clause 3.2). ESL students should also visit the following link.

English Proficiency Requirements

Since English is the primary language of instruction at this University, all applicants seeking admission to the School of Graduate Studies must possess an adequate knowledge of written and spoken English as a prerequisite to admission. Regardless of country of origin or of citizenship status, applicants will be required to demonstrate proficiency in the English language. This demonstration may take one of the following forms:

I. Successful completion of the equivalent of three years of full-time instruction in an English language secondary institution as recognized by Memorial University of Newfoundland including successful completion of at least two courses in English Language and/or Literature at the Grade XII (or equivalent) level. Please note that these courses must be other than English as a Second Language (ESL) courses.

II. Successful completion of a baccalaureate degree from a recognized University where English is the language of instruction and from which transfer of credit may be allowed by Memorial University of Newfoundland.

III. Successful completion of a post-graduate degree program at a recognized University where English is the language of instruction and from which transfer of credit may be allowed by Memorial University of Newfoundland.

IV. Submission of official results of the Test of English as a Foreign Language (TOEFL) with a paper-based score of 550 (or higher)/computer-based score of 213 (or higher) or Internet-based with a score of 80 (or higher) and the Test of Written English (TWE) with a score of 4 (or higher).

V. Submission of the official results of the Michigan Test of English Proficiency with a score of 85% (or higher).

VI. Submission of the official results of the English Language Testing Service (ELTS) Test with a score in Band 7 (or higher).

VII. Submission of official results of the Carleton Academic English Language (CAEL) Assessment with a minimum score of between 50 and 60 in each of four bands, with at least 2 band scores of 60.
VIII. Submission of official results of the Canadian Test of English for Scholars and Trainees (CanTEST) with a Band Level 4.5 in the listening comprehension and reading comprehension sub-tests and a score of 4 in writing.

IX. Only in exceptional circumstances and only upon the recommendation of the Department/Faculty/School concerned, will the Dean consider applicants who do not meet one of the requirements listed in 1-8 above.

**Additional Requirements**

Particular Departments/Faculties/Schools may require greater strength in English communicative skills than is indicated by the achievement of minimum scores outlined in 4-8 (above). Any such additional requirements are detailed in the appropriate section of the Calendar.

**English Language Requirements Subsequent to Admission**

I. Students who have been admitted under English Proficiency Requirements, Clauses IV - VIII above, will be required to take an English language placement test on arrival at Memorial University of Newfoundland. On the basis of the test results, students may be required to complete successfully a course of language study designed to bring their English, in any or all of listening, speaking, reading, and writing, to a level required for graduate studies. A final assessment of the students' proficiency in these areas will normally be made no later than the end of the third semester following their first registration in the School of Graduate Studies. As a result of this assessment, and in consultation with the student's academic unit and the Department of English Language and Literature, there may be a recommendation for termination of the student's program.

II. Notwithstanding Additional Requirements above, if a student's department is not satisfied with the student's ability to communicate in English, then the student may be required to complete successfully the relevant component(s) of the course of study referred to in Additional Requirements. The department will be required to take this action within three semesters of the student's admission to a graduate program. At the end of this period the department may recommend, but not require this procedure.

*Information regarding the TOEFL program is available from the Educational Testing Service, Box 899, Princeton, New Jersey, U.S.A., 08540; from U.S. embassies or consulates, or from offices of the U.S. Information Services.*

*Information on the Michigan Test of English may be obtained from the Testing and Certificate Service, University of Michigan, 2001 North University Building, Ann Arbor, Michigan, U.S.A. Information regarding the ELTS Test is available from the offices of the British Council, 10 Spring Gardens, London, SW1A 2BN, England.*

**FIELD ACTIVITIES AND SAFETY**

Many students will undertake field studies as part of both coursework and independent research. It is both prudent and required that anyone, faculty or student, involved in field studies follow regulations and best practices with respect to field safety.
Prior planning for any field activities must include safety planning, and preparation of required forms. Compliance with our safety guidelines is not difficult, and is very important. Generally, faculty are responsible for initiating safety procedures for organized course activities, whereas an individual conducting independent field activities, whether student or faculty, is personally responsible for their own compliance.

Details regarding safety, i.e., practice, policy, and requisite forms may be found on the Departmental website.

**GRADUATE STUDENT SEMINAR SERIES (GS³)**

Each graduate student in the Earth Sciences Department must give an oral presentation on the results of his/her research to satisfy departmental degree requirements for both M.Sc. and Ph.D. degrees. The following is a description of guidelines for organization and content of these presentations.

At the beginning of each academic year, the Manager of Academic Programs in the Department of Earth Sciences will prepare a list of students who are required to present their seminars during that academic year. According to degree requirements listed in the University Calendar, students in the M.Sc. degree program must deliver their presentations during their second year. Students in the Ph.D. degree program must deliver their presentations during either their second or third year. Students will be notified in writing and by email near the beginning of the Fall Semester. The seminars will take place either during the Fall or Winter Semesters. Seminars will not be scheduled outside of this timeframe.

Presentations for each academic year are organized by a faculty member appointed by the Department Head. The informal name for this series of student talks is the “Earth Sciences Department Graduate Student Seminar Series.” The faculty organizer for the seminars will develop a schedule of available times for talks, and notify students of this schedule. It is the responsibility of the student to select an available time and date, and notify the organizer. Scheduling is conducted on a first-come first-served basis. It is not the responsibility of the faculty seminar organizer to enforce the departmental policies, or repeatedly urge students to volunteer; the faculty organizer’s responsibility extends only to the organization of the time, date, and logistics for presentations.

In general, seminars will be held on alternating Friday afternoons in the Graduate Lounge (ER4065), during the Fall and Winter semesters (not during holidays or exam periods). Two student talks will be scheduled for each session; each talk is scheduled for ~20 minutes duration, allowing for questions and changeover between talks. The faculty seminar organizer will provide a computer and projector for presentation of materials.

The content of the student’s presentation should be developed through consultation between the student and their supervisor, and should be focused on the topic of the student’s research. The student should practice the talk, to assure that the length is appropriate and the presentation is professional. Due to scheduling considerations, some students may have to present their seminars before their thesis research and writing are complete, especially in the case of Ph.D. candidates. This is acceptable, and is not justification for postponing presentations past the required program year specified above. In such cases, student presentations may focus more on background ideas, methods, approaches, and potential applicability, rather than thesis results, per se.
Note that the Manager of Academic Programs keeps a record of all graduate student seminar presentations. Students cannot graduate without completing this program requirement. Further note that other seminars or seminar series cannot be substituted for the Graduate Student Seminar Series.

**FORMAT OF THE WRITTEN THESIS**

**Organization**

The School of Graduate Studies has a list of regulations concerning the format of the thesis (margin width, minimum font size, lists of tables, figures etc.) that should be followed.

**Length**

There are no specific limits to the length of a thesis, but all graduate students are encouraged to present their research as concisely as possible, while including all relevant information and implications. Length is not a criterion in evaluating the quality of a thesis.

**Thesis or papers?**

All graduate students will have to make the choice of whether to write up their research project as a thesis or as a series of papers for submission to refereed journals. This decision should be made by the graduate student in consultation with their supervisor at an early stage in the program. There are advantages to both choices and the graduate student should evaluate the options carefully. Writing up the research in thesis format generally results in a longer document, but may represent the preferred option for many students who are at the beginning of their research careers. Writing for a journal involves some repetition (e.g., in the Introduction to each paper) and generally takes longer, particularly if the student has to revise manuscripts during the course of their research program, but it can provide a very useful experience for graduate students who are considering an academic career as it establishes their publication record.

The School of Graduate Studies has some regulations concerning submission of a thesis as a collection of papers, notably that the papers must be connected by a common theme and that there must be introductory and concluding chapters of the thesis as a whole. Visit the link above for details.

The text below is modified from the School of Graduate Studies Guidelines for Theses and Reports. Please see the complete guidelines at the School of Graduate Studies website.

**General Format**

Theses may be prepared in traditional (unified) or manuscript (research paper) format. In traditional format the body of text, which may appear as a series of chapters, describes the work as a whole. Theses prepared in manuscript format present the research as a series of chapters based on published papers or papers prepared for publication. It is advisable to consider the thesis format that will best present the thesis research early in the program in consultation with the supervisor and the supervisory committee who must approve the final choice.
Although chapters (research papers) for theses prepared in manuscript format should be written as "stand alone" documents of published work or work prepared for publication, they must be logically connected and integrated into the thesis. An unconnected assembly of research papers is unacceptable. The format of each chapter must be consistent with the School of Graduate Studies General Regulations as described in this document. A literature review of broad scope and text describing how the chapters (research papers) are integrated must be presented in the Introduction and Overview chapter. Students considering submission of a thesis in manuscript format should seek specific guidance from their supervisor, both during the practical aspects of research and in the preparation of the thesis.

**Order of Contents**

The required components of a thesis should be ordered as in the table below.

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**Title Page**

The title page contains the copyright notice as well as the information used to identify the thesis in library databases. The format should follow the example shown in Appendix 1. The date on the title page should indicate the month and year of graduation. In choosing a title, students should keep in mind that it is a valuable scholarly reference and will often be the only information that a prospective user of the thesis will have available. Care should be taken, therefore, to ensure that the title describes the contents of the thesis as accurately as possible and contains electronically searchable key-words.

**Abstract**

The purpose of the abstract, which should not exceed 150 words for a Masters' thesis or 350 words for a Doctoral thesis, is to provide sufficient information to allow potential readers to decide on relevance of the thesis. Abstracts to be listed in Dissertation Abstracts International or Masters’, Abstracts International should contain appropriate key words and phrases designed to assist electronic searches.
Acknowledgments

Intellectual and practical assistance, advice, encouragement and sources of monetary support should be acknowledged. It is appropriate to acknowledge the prior publication of any material included in the thesis either in this section or in the introductory chapter of the thesis.

Table of Contents

A decimal system such as the one shown in Appendix 2 should be followed. Each heading and subheading appearing in the table of contents must appear in the text of the thesis.

Lists of Tables, Figures, Plates, Abbreviations, Symbols, and Appendices

Lists of tables, figures, plates and abbreviations must follow the table of contents if tables, figures, plates and/or abbreviations are incorporated in the thesis. Each list should appear on a separate page with the appropriate page numbers (Appendix 3). It is advisable to use the decimal system (e.g., Figure 4.2 is the second figure in Chapter 4) if this system is followed for headings.

Thesis Text

Traditional Format

The body of text, which may appear as a series of chapters, describes the research as a whole and should be presented in a scholarly manner consistent with the accepted conventions of the discipline.

Manuscript Format

Introduction and Overview

The “Introduction and Overview” chapter provides a comprehensive review of the literature that establishes the student's familiarity with relevant work in the field; sets out the objectives of the thesis; places the research into the larger context of the candidate's discipline; and provides overall thematic cohesiveness of the chapters (research papers) to the reader. A separate reference list should be provided for each chapter (research paper).

Co-authorship Statement

Research in some disciplines, particularly the sciences, is often collaborative and will necessarily involve contributions of several authors. It is expected that a thesis author will have made a major intellectual and practical contribution to all work that is reported in his/her thesis. Principal author status is normally required for use of research papers in a manuscript-format thesis. A clear statement describing the contribution made by the thesis author in each of the general research stages listed below is necessary to assist examiners in reviewing the thesis and, in the case of Doctoral dissertations, conducting the oral defence. The co-authorship statement should specifically address the contributions made by the student with respect to: i) design and identification of the research proposal; ii) practical aspects of the research; iii) data analysis; and iv) manuscript preparation.
Chapters (research papers)

Normally, only papers in which the candidate is considered to be the principal author can be used in a manuscript-format thesis. Each chapter should be prepared as a "stand alone" document describing published work or work prepared for publication. As such, each chapter requires an introduction, text body, experimental/methodology (if applicable) and reference list. The description of methodology should be sufficiently detailed so as to allow reproduction of the research by the reader. Original research data and results should be presented as appropriate. Figures and tables should be integrated into the text where appropriate. Chapters must be presented in consistent format throughout the thesis.

Summary

Theses written in manuscript format require a summary that unites the material presented in the chapters in a cohesive way.

References

Departmental policies require a unified list of all work cited in the thesis. Methods of handling and listing references in the text vary and the author is permitted a certain freedom of choice. Students are advised to use a style appropriate for their discipline.

Appendices

Appendices are normally included to provide information that would detract from the readability of the main body of the text or to present data or information used in the thesis but not directly obtained by the thesis author. For example, lengthy tables, tabulated and reference data, detailed explanation of laboratory procedures, computer programs are typically included in the appendices.

Paper

To ensure that the library copy of the thesis will withstand long-term use, one copy of the final thesis must be printed on acid-free paper that adheres to the ANSI/NISO Z39.48 - 1992(R2002) standard (this may be indicated on the package by an infinity sign, sometimes contained within a circle), or equivalent. Both Domtar and Xerox brand photocopying paper meet these standards. It must measure 21.5 by 28 cm (8.5 x 11 inches). Remaining copies of the thesis can be printed or copied on standard white photocopy paper of the same size.

Text Presentation

The thesis must be printed single-sided using laser print quality. The general text of the thesis should be printed double-spaced in portrait format with single spacing used for footnotes or lengthy quotations. Triple or larger spacing may be used where necessary to set off headings, subheadings or illustrations. Font, font size, style of footnotes and references should be consistent. Times New Roman or similar font of at least size 12 is recommended for text. Smaller fonts may be used for footnotes, graphs etc., but must be sufficiently clear to permit microfilming.

Margins
A margin of 3.8 cm (1.5 inches) on the left-hand side of the pages is required to allow for binding. Minimum margins of 3 cm (1.25 inches) are required at the top and the bottom. A 2.5 cm (1 inch) margin is required on the right-hand side. These requirements also apply to tables and diagrams.

**Pagination**

Each page in a thesis must be identified by a distinct number for ease of reference. Material preceding the first page of the text (i.e., acknowledgments, table of contents, etc.) is to be numbered using lowercase Roman numerals, centered at the bottom of each page. The title page is considered to be page (i) but is not so indicated. Text for theses in traditional format must be numbered consecutively in Arabic numerals beginning with the first page of the text, i.e., Page 1 of Chapter 1. All figures, plates, tables, appendices, and similar material are numbered as pages of the text through to the end of the thesis. Chapters (research papers) in manuscript format may be numbered consecutively within the entire thesis or within each chapter but each page must have a unique reference. In the latter case the chapter and page number should be designated in Arabic numerals (e.g., 2-3 is Page 3 in Chapter 2).

**Illustrations**

Tables, figures, photographs, scanned images and other non-text material whether in black/white or colour should be legible, arranged neatly and effectively, and must always be referred to in the text. The title of a table should be placed above the table, and the title of a figure or plate should be positioned below the figure. In cases where this is impossible, the title and explanation of the figure or table may be placed on the reverse side of the immediately preceding blank page so that it faces the figure or table. The number of such a page must appear on the blank side in conformity with the placement of page numbers in the rest of the thesis.

Oversize maps, charts or diagrams must be folded so that they can be bound with the pages or, as is most common, inserted in a pocket fastened to the inside of the back cover when the thesis is bound. If possible, media containing additional print or non-print material should be included in a pocket fastened to the inside of the back cover when the thesis is bound. Original photographs, prints, photo-offsets or scanned images should be provided in all required copies of the thesis. Where not forming a complete page, non-text material should be properly mounted on a page. It should be noted that colour images do not produce good microfilm copies.

**M.Sc. and Ph.D. Thesis Submission Procedures**

The procedures outlined below assume that all prescribed course work and comprehensive examinations have been satisfactorily completed and that the student has made an oral presentation of the results of his/her thesis in the departmental Graduate Student Seminar Series.

**Submission of the thesis for examination**

When the M.Sc. or Ph.D. student considers that his/her thesis is ready for submission, the approval of the student’s supervisor(s) should normally be obtained (supervisory approval form – see below). However, in rare circumstances where there is significant disagreement between the student and supervisor(s), a thesis can be submitted without supervisory
approval. When submitting a thesis for examination, the student must bring the following to the Head’s Assistant (from whom all forms can be obtained):

- M.Sc. student - three unbound copies of the complete thesis
- Ph.D. student - four unbound copies of the complete thesis
- one completed Supervisory Approval Form
- three completed Non-Exclusive License to Reproduce Thesis Forms
- two completed Thesis Deposit Forms
- if required, one completed Request to Include Copyright Material Form
- if necessary, a Change of Program Form (should there have been changes to the supervisor or supervisory committee, thesis title, required courses etc)
- Ph.D. student - one completed ProQuest Subject Code Form.

**Examination of Thesis - M.Sc.**

Examination of the M.Sc. thesis does not involve an oral defence. The supervisor will submit a completed Appointment of Examiners form to the Head’s Assistant, which should include the names, addresses, telephone numbers, and email addresses of three potential examiners. These names can include one or more external examiners, though only one external is normally approved. Examiners should be able to provide an objective assessment of the thesis – they should be knowledgeable of the subject matter / analytical methods involved, but should not be a collaborator on this study or be a member of the student’s supervisory committee. The Department Head may add additional names to the list, but will normally recommend two of the names proposed by the supervisor(s) to the Dean of Graduate Studies for consideration. The Dean of the School of Graduate Studies appoints the two examiners.

Once the examiners are approved, the thesis is forwarded to the examiners by the Head’s Assistant. Examiners are requested to examine the thesis within three weeks of receipt and to return the examination report to the Dean of the School of Graduate Studies. Neither the student nor the supervisor will know the identity of the examiners.

The copies of the examined thesis and the examination reports will be returned to the School of Graduate Studies. The Dean of the School of Graduate Studies will copy the examination reports to the Head of the Department, the supervisor(s), and the student, together with a cover letter which will explain in general terms how the student is to respond to the comments of the examiners.

Examination of the thesis will result in one of the following recommendations by each examiner. The thesis/report is:

- acceptable without modifications; or

- acceptable, modifications are required but the thesis does not have to be re-examined\(^2\); or

\(^2\) Modifications may include corrections of typographical errors and errors in nomenclature, improvement in phrasing, or rewriting of sections of the thesis/report. Modifications may be indicated in the text or listed separately.
unacceptable. The thesis/report requires modification and re-examination\(^3\); or
- totally unacceptable - the thesis/report is failed.\(^4\)

If all examiners recommend that the thesis/report is totally unacceptable, then the thesis will be failed, and shall not be re-examined. The student’s program is terminated.

If an examiner recommends that the thesis/report is unacceptable, and this recommendation is accepted by the Dean, then the student may apply to the Dean for permission to resubmit the thesis for re-examination in one of the following ways:

- to submit a modified thesis/report to the original examiners.
- to submit a modified thesis/report to new examiners.
- to submit the original thesis/report to an Examination Board to be appointed by the Dean.

If a thesis/report is re-examined, the candidate will not be awarded a pass unless all examiners find the thesis acceptable.

Under no circumstances may a thesis/report be re-examined more than once.

When corrections have been made to the satisfaction of the supervisor(s) (and there is no requirement for a re-examination), the thesis is ready for final submission.

**Examination of Thesis - Ph.D.**

Examination of the Ph.D. thesis involves an oral defence. The supervisor will submit a completed Appointment of Examiners Form to the Head’s Assistant, which should include the names, addresses, telephone numbers, and email addresses of a minimum of four potential examiners. These names can include one or more external examiners though only one external is normally approved. Examiners should be able to provide an objective assessment of the thesis – they should be knowledgeable of the subject matter / analytical methods involved, but should not be a collaborator on this study or be a member of the student’s supervisory committee. The Department Head may add additional names to the list, but will normally recommend three of the names proposed by the supervisor(s) to the Dean of Graduate Studies for consideration. The Dean of the School of Graduate Studies appoints the three examiners.

Once the examiners are approved, the thesis is forwarded to the examiners by the Head’s Assistant. Examiners are requested to examine the thesis within three weeks of receipt.

\(^3\) Modifications might include (but are not limited to) the rectification of one or more of the following deficiencies: (1) misinterpretation and/or misuse of the matter covered, omission of relevant materials, unfounded conclusions, illogical of argument(s), improper analysis of data and the like; (2) poor writing, grammar, and organization; (3) unacceptable physical presentation. A detailed list of problems should be included with the report.

\(^4\) A detailed list of the reason(s) for failure must be included in the report.
The thesis is brought to the defence by the examiners and supervisor. The examination reports will be returned to the School of Graduate Studies. Once the Dean of the School of Graduate Studies receives the examination reports, and they are favourable, the Department Head is informed to proceed with the oral defence.

If one or more of the reports is unfavourable, the Dean may: (i) continue with the examination; or (ii) recommend that the student revise the thesis on the basis of the comments of the examiners and re-submit a revised version for evaluation and defence.

**Examination regulations**

The following is an excerpt from the 2012-2013 University Calendar which describes the evaluation of the Ph.D. thesis.

**Evaluation of Ph.D. Theses**

Candidates for the degree of Doctor of Philosophy must submit a written dissertation deemed acceptable by the University, and demonstrate their ability to defend their work in a public oral examination. For this reason, the final decision on whether a candidate will be recommended for the award of the degree is made only at the conclusion of the oral examination.

**Responsibilities of the Thesis Examining Board**

The work of each candidate will be assessed by a Thesis Examining Board. Its first responsibility is to determine whether the thesis successfully demonstrates the candidate's competence to undertake independent research work. The Board must be satisfied that the work contributes significantly to knowledge in the field of study; that the contribution is of high scholarly merit; that the candidate is aware of the pertinent published literature; that it is written in a satisfactory style; and that it is free from typographical and other mechanical errors. The second responsibility of the Board is to conduct a final oral examination of the candidate and to then recommend to the Dean of Graduate Studies whether the candidate should be awarded the degree.

**Composition of the Thesis Examining Board**

The members of the Thesis Examining Board will be appointed by the Dean on the recommendation of the Head of the academic unit who will have consulted with the supervisory committee. The Board shall consist of four members. Normally these will be the candidate's supervisor (who serves on the Board in a non-voting capacity), two examiners from within the University, and one from outside the University. However, when circumstances warrant, a second external examiner may be substituted for one of the internal examiners with permission of the Dean. Examiners shall normally be those who have completed a graduate degree at the doctoral level, including a thesis, in the discipline or cognate area. Members of the supervisory committee other than the supervisor are ineligible for appointment to the Board. Those serving as examiners shall not have been involved in the preparation of the thesis/report.

**The Examination Process**

1. The voting members of the Board shall submit written reports on the thesis containing an assessment of the quality of the written work and a recommendation as to whether
the candidate should be permitted to proceed to an oral examination and defence of the work. An examiner may recommend:

- that the candidate be allowed to proceed to the oral defence of the thesis\(^5\), or;
- that the candidate not be allowed to proceed to the oral defence at this time\(^6\), or;
- that the candidate should be failed.

II. No candidate will be permitted to re-submit a thesis more than once. If the Dean decides that the thesis must be revised before it can be orally defended (as specified in above) the resubmitted thesis will be examined by a Board which may differ in whole or in part from the original. In the case of a re-submitted thesis an examiner may recommend only:

- that the candidate be allowed to proceed to the oral defence of the thesis, or;
- that the candidate should be failed.

III. After receiving the reports from all three voting members of the Board the Dean will consider the recommendations and determine whether an oral defence of the thesis will be scheduled.

IV. The Final Oral Examination and Defence of Thesis will take place at a time and place to be determined by the Dean of Graduate Studies and will be chaired by the Dean or his/her delegate. The presence of all members of the Examining Board is normally required.

V. Following the defence, the Board will meet in camera to render a final assessment of the thesis and the candidate's ability to defend his/her work. The Board may recommend one of the following outcomes:

- Passed with distinction (Awarded to candidates who demonstrate superior knowledge of their chosen field; this category requires unanimous support of the Board\(^7\).)
- Passed
- Passed Subject to Conditions\(^8\)
- Re-examination required\(^9\)

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5 Any suggested corrections or revisions should be outlined in the examiner's report. It is understood that it will be the responsibility of the Supervisory Committee to discuss the suggested changes with the candidate, to determine which should be incorporated in the thesis before its final submission.

6 This recommendation reflects the examiner's opinion that further research, re-analysis of data, or thorough rewriting of the material is required. The thesis may, however, be re-submitted for examination.

7 This recommendation may have attached to it the requirement that the candidate complete certain specified revisions to the satisfaction of the Supervisory Committee, the Head of the academic unit and the Dean. These revisions must have been specified in the written appraisal submitted prior to the Oral Examination.

8 This recommendation is made if there are revisions beyond those specified in the written appraisal submitted prior to the Oral Examination. This recommendation must have the conditions attached and cannot include the option of re-examination.

9 The members of the Thesis Examination Board may attach to this recommendation a list of any requirements which they feel are appropriate.
VI. If the members of the Board are unanimous in their recommendation, the Chair of the Examination may accept this recommendation and inform the candidate of the decision. In any other case, however, the delivering of any final decision shall be deferred pending further consultation within the School of Graduate Studies.

VII. No candidate shall be permitted more than two Oral Examinations.

Time Limit for Revision

The final version of Master's and Ph.D. theses found acceptable with or without corrections shall be submitted to the School of Graduate Studies within 6 months of the date on which the thesis and the student's examiners' reports are returned to the student's academic unit. If a corrected thesis is not submitted within 6 months the student is considered to have withdrawn from the program. After this time, the student must apply to be readmitted.

Master's and Ph.D. theses requiring re-examination shall be resubmitted to the School of Graduate Studies within 12 months of the date on which the thesis/report and the examiner's reports are returned to the student. Students requiring resubmission and re-examination of theses must maintain their registration during this period. Failure to resubmit the revised thesis within 12 months will result in termination of the student's program.

Note: Please refer to Registration for regulations governing program registration.

Prepublication

Publication of material before submission of the thesis/report for examination is permitted. The School of Graduate Studies and Supervisor should be informed of such publication.

Final Thesis Submission

When corrections have been made to the satisfaction of the supervisory committee (and there is no requirement for a re-examination), the thesis is ready for final submission.

For final submission, all graduate students are required to produce one electronic copy of their thesis to the Head of their academic unit.

- The final version of your thesis should be in PDF/A format (needed for the long-term archiving of electronic theses) and use the following naming convention: lastname_firstname_middlename_finalsubmissionyear_finalsubmissionmonthandyear_degree.pdf (e.g., Smith_John_James_122013_PhD.pdf).
- Click here for instructions on how to convert files to PDF/A format. For further help, you may wish to contact Memorial's Digital Media Centre.
- The electronic copy of the thesis and any associated supplementary files should be saved on DVD or CD. The disc sleeve should note student name, student number, degree program, and the academic unit.

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10 Re-examination not permitted.
The disc containing the thesis along with a completed Recommendation for the Award of a Graduate Degree form should be submitted to the Head. As of the date of the Head’s signature on this form, the student has completed their M.Sc. or Ph.D. study and is no longer a graduate student at Memorial University of Newfoundland.

Additional Thesis Copies

The School of Graduate Studies no longer accepts personal copies of theses for binding. Students who wish to have bound personal copies of their thesis are asked to contact Lehmann Bookbinding directly, the company which also binds theses for Memorial.

Lehmann Bookbinding
97 Ardelt Avenue
Kitchener, ON  N2C 2E1
www.lehmannbookbinding.com

CONGRATULATIONS!

Important Notes

I. For M.Sc. students, the submission and examination process may take 2-6 months, depending mainly on the amount of work involved with completion of the required corrections.

For Ph.D. students, the submission and examination process may take 2-7 months, depending mainly on the amount of work involved with completion of the required corrections (an additional month might be required to allow for scheduling of the oral defence).

II. Each semester there are specific dates for submission of a thesis for examination, and final submission of a thesis, which relate to both tuition fees and convocation.

The final date for submission of theses for examination, by candidates who expect to receive their degree at the:
- Spring Convocation is: mid-January (see University Diary)
- Fall Convocation is: mid-June (see University Diary)
- theses received after these dates will be processed as time and resources permit

The final date for Departments to submit the Recommendation for Award of Degree form in order for graduate students to be deregistered from Graduate Registration 9000 without incurring any liability for continuance fees is:
- Fall semester – end of September (see University Diary)
- Winter semester - end of January (see University Diary)
- Spring semester – end of May (see University Diary)

The final date for Departments to submit the Recommendation for Award of Degree form for candidates who expect to receive their degree at either the Spring or Fall convocation is:
a minimum of three weeks prior to the first date of the convocation ceremonies if the student wishes his/her name to appear in the convocation program. A minimum of two weeks prior to the first date of the convocation ceremonies, but the student’s name will not appear in the convocation program.

III. The student must apply to graduate and choose Graduation/Convocation. This can be done before the thesis submission process is started, and must be done by January 15 for Spring Convocation and July 15 for Fall Convocation. A student cannot graduate if they have not applied to do so, even if they have completed all the other thesis submission procedures!

IV. Students are not be permitted to graduate if they have outstanding tuition or other fees owing or if they have outstanding books due back to any Memorial library.

V. Students must maintain their graduate registration until all academic requirements for the degree including thesis corrections have been met.

LEAVE OF ABSENCE

The text below is excerpted from the Memorial University Calendar, Section 3.3.6 Additional information and the SGS form to request a leave of absence, are available from the School of Graduate Studies.

Leaves of Absence

General

I. A leave of absence is a period of time during which a student is not required to register; no fees are assessed; and the time granted is not counted in the maximum time period permitted for a graduate program.

II. In the event that circumstances prevent a student from pursuing his/her program, the student may apply to the Dean of Graduate Studies for a leave of absence.

III. A student may normally apply for only one leave of absence during his/her program. The maximum leave of absence shall normally not exceed 12 months.

IV. An application for leave will normally be made before the end of the registration period in the first semester for which leave is requested. Requests received after the end of the regular registration period, and approved, will be charged an administration fee.

Parental

A student may apply for a leave of absence in the case of pregnancy/birth/adoption of a child. Such leave will be considered separately from III. above.
TRANSFER FROM AN M.SC. PROGRAM INTO A PH.D. PROGRAM

I. Students must notify the Department Head in writing of their wish to transfer into the Ph.D. program and of the rationale for their decision. This request will normally be made no earlier than the start of the second year of a M.Sc. program. (Note that time already spent in the M.Sc. program is counted as part of the seven years available for completion of the Ph.D. program. Fellowship funding will not be given for more than a total of four years.)

II. This application must be accompanied by a letter from a faculty member recommending the transfer and agreeing to supervise and fund the Ph.D. program. This faculty member will normally be the M.Sc. supervisor. In the unusual circumstance where this is not the case, the Head will request a letter from the current M.Sc. supervisor stating their opinion of the transfer request. A new supervisor must agree to assume all future supervisory responsibility, including financial responsibility, from the time of the transfer application.

III. The student must submit a Ph.D. thesis proposal and this must be deemed satisfactory prior to Departmental approval of the transfer. The thesis proposal will be of the same form and will be evaluated in the same manner as those of all other Ph.D. candidates with the following two exceptions.

IV. The Ph.D. thesis proposal must include a brief section describing the research work completed toward the M.Sc. degree. This section will be subject to questioning in the same manner as all other parts of the Ph.D. thesis proposal.

V. In the event that the Ph.D. thesis proposal is deemed unsatisfactory, the student cannot submit a revised thesis proposal as part of this transfer request nor can the student reapply for a transfer at a later date.

VI. If the transfer is approved, the student would be deemed to have met the thesis proposal examination requirement of the PhD program. Only the comprehensive examination would remain to be completed, as per SGS regulations.

VOLUNTARY WITHDRAWAL FROM A DEGREE PROGRAM

University regulations, clause 3.3.2 require that a student intending to withdraw from a graduate degree program notify the Dean of Graduate Studies in writing or e-mail. It is not sufficient to only notify the project supervisor, it is the student’s responsibility to inform the Dean of Graduate Studies directly. A student who does not inform the Dean of Graduate Studies will continue to incur tuition and related fees each semester until such a time as a letter of withdrawal is received by the Dean.

TERMINATION OF A DEGREE PROGRAM

The text below is excerpted from the Memorial University Calendar, Section 3.13. The complete regulations can be found online.

Grounds for termination of a Graduate Program are as follows:
I. Failure to obtain the required grades in courses as stated in the appropriate Degree regulations (see Evaluation);
II. Failure in comprehensive examinations (see Comprehensive Examinations);
III. Recommendation of the Supervisory Committee (see Supervision);
IV. Failure of Thesis (see Theses and Reports);
V. Failure to register in any semester by the final date for adding courses (see Registration, Program Registration);
VI. Lack of progress in a program;
VII. Failure to comply with the conditions of admission into a program, unless the conditions of admission have been changed with approval of the academic unit and the School of Graduate Studies; or
VIII. Academic misconduct as outlined under General Regulation Academic Behaviour governing the School of Graduate Studies.

**GRADUATE COURSES IN EARTH SCIENCES**

In the Faculty of Science, graduate course instruction is considered to be part of the duties of a supervisor for their own graduate students. Thus, except at the discretion of the Head of Department, graduate courses in Earth Sciences are not offered on a regular basis. Graduate students should consult with their supervisory committee to determine the courses that will be required to complete their graduate program. Courses required by your supervisory committee (i.e. program courses) are included in the tuition for your program. Tuition must be paid for courses not required by your supervisory committee.

As per university regulation, all course requirements should normally be completed within one year from the date of first registration in the degree program.

Failure to attain a final passing grade of A or B in a program course shall lead to termination of a student's program. For full regulations regarding evaluation visit the following webpage, clause 3.7.

While this is not an exclusive list, recently offered courses have included:

- 6040 Igneous Petrogenesis
- 6070 Mineralogy and Metamorphic Petrology II
- 6152 Paleomagnetism
- 6172 Borehole Seismic
- 6175 Gravity and Magnetic Methods
- 6177 Math Form Seismic Wave Phenomenon
- 6210 Genesis of Mineral Deposits
- 6320 Marine Geology
- 6410 Advanced Engineering, Environmental Geology
- 6500 Stable Isotope Geochemistry
- 6740 Modern and Ancient Sedimentary Environments
- 6905 Advanced Field Studies, Reservoir Sedimentology & Stratigraphy
- 6912 Fourier Integral Operators
- 6913 Geometrical Methods of Math
- 6914 Introduction to Methods of Characteristics in Geophysics
- 6918 Airborne / Borehole Electrical Methods
- 6921 Wave Equation Modeling, Processing & Inversion Algorithms
THE STUDENT-SUPERVISOR RELATIONSHIP

SUPERVISOR AND SUPERVISORY COMMITTEE

M.Sc. Candidates

In accordance with the University Calendar, section 23.12.1, each M.Sc. student will have a multi-member supervisory committee. This committee shall consist of the Supervisor and at least one other member. Within two weeks of the first registration in the M.Sc. Degree program, a candidate will meet with his/her supervisory committee.

Ph.D. Candidates

In accordance with University Calendar, section 3.9.2, each Ph.D. candidate will have a supervisor and a supervisory committee appointed by the Dean of the School of Graduate Studies, on the recommendation of the Head. The Supervisory Committee shall consist of the Supervisor (co-supervisors) who shall act as Chair, and normally at least two other members. In no circumstances may the Committee membership be fewer than two members.

The role of the Supervisor and the Supervisory Committee will be as follows:

- to decide, jointly with candidate, the program of study, the subject of research, and the working title of the thesis, and to recommend these for approval to the Dean of the School of Graduate Studies;
- to monitor the candidate's progress in his/her course programs and research;
- to report at least annually to the Dean on the candidate's progress and, at the same time, to advise on their continuation in the program; and to make such other reports and recommendations about the candidates to the Dean as it may deem necessary.
- to recommend to the Dean, after consultation with the candidate, necessary changes in the program of study, the subject of research, or the title of the thesis;
in the case of PhD students, to recommend to the Head the timing of the comprehensive examination;

to report to the Dean that the thesis is ready for examination by completing a Supervisor Approval Form, which is to accompany the thesis upon its submission to the School of Graduate Studies;

to recommend to the Dean suitable persons to act as members of the Thesis Examining Board.

**Responsibilities of supervisor and student**

Please see the document “Responsibilities of Supervisors and Graduate Students” which highlights the responsibilities of the supervisor and student as determined by the School of Graduate Studies.

**Annual Supervisory Reports**

The University Calendar, section 3.9.3., states that a Graduate Student Annual Progress and Supervisory Report form must be submitted to the School of Graduate Studies on an annual basis. Recommendations concerning continuation, amendment, or termination of a candidate’s program, are sent to the Dean, who shall take appropriate action. Students shall be advised of the contents of this evaluation and the subsequent recommendation(s).

**DEPARTMENTAL GUIDELINES ON THE STUDENT–SUPERVISOR RELATIONSHIP**

Working relationship between graduate student and supervisor(s)

Although it may not be immediately apparent to new graduate students, the relationship between a graduate student and their supervisor(s) is very different to that of an undergraduate student and a professor. In the former case, the professor generally has no special interest in the outcome of an individual undergraduate student in their course, whereas in the latter case the supervisor has a vested interest in the completion of the research project of their graduate student, typically manifested in the outlay of time, research funds, and intellectual property. Completed research represents a ‘currency’ in universities and research institutions, its timely communication and publication in conference abstracts, research journals, contract reports etc. being a tangible demonstration of the quantity and quality of the research carried out by the particular research group, and hence instrumental in the procurement of future funding and continuation of research activities.

Thus, when an agreement is reached between a prospective graduate student and supervisor, there are expectations on both sides that should be recognized and preferably explicitly discussed in advance of acceptance into the graduate program. From the graduate student’s perspective, there will be financial expectations, including adequate funding, appropriate funding for field and/or laboratory work, funds to attend conferences etc., and expectations concerning the academic role of the supervisor, such as that the supervisor will make themselves available to assist with the design of the research project, answer questions and/or aid in the resolution of ongoing problems or difficulties with the research, and make comments on drafts of the thesis or interim reports etc. in a timely manner.

From the supervisor’s perspective there will be an expectation that the graduate student will commit to the project and see it through to completion in a timely manner so that it generates
some research currency for their research group. This is not to say that the original research project cannot be changed in any way after it has been initiated, rather that the supervisor has a reasonable right to expect some return on their investment. Given the form and function of the supervisory committee structure in this Department, the chance of a graduate student undertaking a non-viable research project should be a extremely rare occurrence, and hence failure to complete the project represents a waste of resources from the supervisor’s perspective.

‘Contractual’ Agreement, Monitoring Progress, Dealing with Problems

The working relationship between a graduate student and their supervisor is thus a kind of contractual agreement with expectations on both sides. However, it is not formally constructed as a written document because of the desire to maintain employment flexibility for graduate students, given the wide range of working relationships between them and their supervisors. As in most employment contracts, the progress of the employee is evaluated on at least an annual basis. In the Department of Earth Sciences, the Annual Progress and Supervisory Report Form fulfill this role. It is designed to ensure that both graduate student and supervisor understand each others’ views concerning the quality and quantity of progress up to that date. However, if a graduate student feels that progress is not adequate at any time, the student should not wait for the annual completion of the form before acting. GRADUATE STUDENTS HAVE THE RIGHT TO CALL A MEETING OF THEIR SUPERVISORY COMMITTEE AT ANY TIME. In other situations, if a graduate student feels that progress is not adequate at any time, the student should not wait for the annual completion of the form before acting. GRADUATE STUDENTS HAVE THE RIGHT TO CALL A MEETING OF THEIR SUPERVISORY COMMITTEE AT ANY TIME. In other situations, if a graduate student feels that the student is unable to get appropriate help from their supervisor, or is unable to meet and/or communicate with them, the first recourse should be to discuss the problem with other members of the supervisory committee, and perhaps subsequently to call a meeting of the supervisory committee as a whole. Ultimately, if the problem persists and cannot be resolved within the supervisory committee, then the graduate student should contact the Head or Deputy Head to mediate the problem. In extreme situations, graduate students have the right to seek an alternative supervisor if they feel that they are unable to work with their original choice. Such a course of action is rare and there is no obligation on other faculty members to take on the graduate students of others.

Equally, the supervisor has a reasonable expectation that the graduate student will make timely progress on the research project and complete it within the period for which funding is allocated. If the supervisor feels that the graduate student is not making adequate progress, an appropriate first step is to set up regular meetings to monitor progress and to make suggestions as to how the work can be accelerated. Supervisors recognize that each graduate student learns at a different rate, that different degrees of supervision are required, and that there is always a learning curve to be negotiated when carrying out new techniques, but they will also have expectations about how long the research should take given an appropriate level of commitment and have a right to expect reasonable progress in the absence of impediments.

Time on Campus, Vacation Days, Sick Leave

Being a graduate student is a full-time job unless you are enrolled as a part-time student. See 2.3.8 of the regulations of the School of Graduate Studies for a definition of a part-time student. As such, there is an expectation that you will be on campus and working in your office/lab/in the field etc. during (flexible) normal working hours. However, there is a high level of trust in the system, there is no requirement to punch a time clock on your way in and out, and ‘normal working hours’ is loosely defined. In summary, you have considerable freedom
concerning when you do your work, but this does not include the freedom not to do the work. If your supervisor considers that you are not putting in sufficient effort, you can expect to hear from them.

Common practice at Memorial allows that students may take three weeks (i.e., 21 working days) vacation each year, although there are no formal guidelines. While supervisors do not normally count the days, supervisors have a right to expect that you will not go away for extended periods of time without contacting them. With regard to illness, if a graduate student becomes sick and is unable to work on his/her program for more than a few days, it is appropriate to notify your supervisor. You may be asked to account for your absence with a doctor’s note.

**Summer Employment, Leave Of Absence, Part-Time Status**

If a graduate student wants to take summer employment during the course of their graduate studies, the student should discuss this with their supervisor. The School of Graduate Studies does not normally condone summer employment unless it is a formal part of a student’s program. However, in Earth Sciences, summer student employment in relevant mining and petroleum industries is relatively common. The supervisor will probably have mixed feelings about the idea, because it generally results in prolonging the time taken to complete the thesis (see contractual obligations above), but at the same time the supervisor will also recognize the potential benefits of outside work experience in enhancing the employment prospects of the graduate student. If after weighing the options the graduate student makes the decision to take summer employment of more than 24 hours a week, a Change of Status form must be submitted to the School of Graduate Studies and the department will stop their funding for the period that the student is employed elsewhere. There are two options to be considered (see below)

**Leave of Absence**

The graduate student makes a request to the School of Graduate Studies for a leave of absence, generally for a period of 4-12 months (a semester, two or three), which is not generally denied. In this case, the graduate student stipend is stopped during the time the student is employed off campus and subject to supervisory approval is restarted again once the student returns as a full-time student. Assuming supervisory approval, there is no time penalty and the remainder of the fellowship becomes available to the graduate student following their return. The School of Graduate Studies only allows a graduate student to take one leave of absence during the course of their degree, and such leave is usually granted only for exceptional circumstances, not summer employment.

**Change Of Status To A Part-Time Student**

As in the former case, the graduate student makes a request to the School of Graduate Studies for a change of status that is not normally denied. The graduate student stipend is stopped for the period of the part-time status, but in this case the clock does not stop, tuition is still charged, and all time spent as a part-time student counts towards the time spent in the degree program.
Duration of funding and time taken for completion of thesis

Fellowship funding from the School of Graduate Studies / supervisor / other funding source is for two years for the M.Sc. and four years for the Ph.D. Funding from the School of Graduate Studies does not normally extend beyond these limits, but supervisors are at liberty to continue funding their graduate students for longer periods. However, graduate students should be aware that supervisors may not be able or willing to commit to the same level of funding as in the first two / four years of the research project respectively, and generally will want firm assurances that the graduate student is making appropriate progress towards completion and final submission of the thesis before committing to additional salary funding.

The School of Graduate Studies has specified the time limitation on M.Sc. and Ph.D. programs as 7 years. This means that theses must be submitted within 7 years of enrolment in the program, unless there are special mitigating circumstances, which are evaluated by the School of Graduate Studies on an individual basis.

GRADUATE FELLOWSHIPS, ASSISTANTSHIPS, SCHOLARSHIPS AND AWARDS

Graduate students commonly receive financial support from the Department and University in the form of fellowships, assistantships, scholarships, and awards.

A number of Teaching Assistantships are available to students for contributing to instruction of undergraduate classes during the Fall and Winter semesters. This financial support is considered supplemental to other forms of financial support. Teaching assistantships involve contributing 54 hours of work toward class instruction, as agreed contractually between the course instructor and teaching assistant. Students receiving School of Graduate Studies fellowships are required to undertake teaching assistantships as part of their funding package, and these students are given first priority in teaching-assistantship allocation. However, additional assistantships may be available during a particular semester.

Interested students should consult the Earth Sciences First Year Laboratory Instructor several weeks prior to the semester’s start, for additional information on applying for teaching assistantships.

Various types of awards are available to graduate students of Memorial University of Newfoundland. Included are scholarships, fellowships, awards, prizes and medals.

- A scholarship is based on academic performance and is awarded to the student with the highest average meeting the conditions of the scholarship.

- A fellowship is funding from the School of Graduate Studies, which may be supplemented by funding from your supervisor and a Teaching Assistantship. In order to be eligible for SGS funding, graduate students must have an average of 75% in their undergraduate and graduate courses (or a GPA of 2.75), or equivalent (for details see Student Eligibility Criteria below).

- An award is offered to recognize special achievements or to assist with special projects or travel. Awards may be given to students with a minimum of clear standing (as defined by the University) and meet all the other conditions of the award.
Some scholarships and awards may be held for more than one year, but are renewable only if the student maintains scholarship standing.

For the majority of the scholarships and awards, students are required to be engaged full-time on their graduate research when they hold the award. However, there are some awards available to part-time students. You should confirm your eligibility by checking the award description or with School of Graduate Studies before submitting an application.
GRADUATE FELLOWSHIPS AND ASSISTANTSHIPS

Guidelines for the Awarding of School of Graduate Studies Fellowships and Graduate Student Support (January 2011)

These guidelines can also be found online at the School of Graduate Studies website.

1. General Principles

a. School of Graduate Studies baseline funds for the awarding of School of Graduate Studies Fellowships will be allocated to academic units by the Dean of Graduate Studies on a fiscal-year (April 1- March 31) basis for the support of graduate students according to the “Guidelines for Allocation of Academic Unit Baselines”.

b. It is recommended that academic units develop and make known program level funding norms. While the School of Graduate Studies does not specify floor funding, academic units are encouraged to design funding norms that combine School of Graduate Studies fellowship support with other sources (Graduate Assistantship, external or internal scholarship, supervisor’s grant or contract support, etc.) in order to achieve financial packages that reflect estimated costs of living.

c. III. Recommendations for awarding School of Graduate Studies Fellowships must be forwarded to the School of Graduate Studies for approval and disbursement according to the criteria and procedures below.

2. Student Eligibility Criteria

a. Students must normally have and maintain an overall MUN, or equivalent, average of 75% and be registered as full time11 in a baseline-supported master's or doctoral program in order to receive a School of Graduate Studies Fellowship.

b. Academic standard

i. On admission, students must normally have an overall MUN, or equivalent, average of 75% determined by using either the last 20 attempted courses for which grades are available, or by using all courses attempted for which grades are available excluding those in the first year of an undergraduate program. Attempted post-baccalaureate courses for which grades are available are included in both calculations.

ii. In-program students must normally have successfully completed at least one full semester and achieved a mark of at least 75% in each program course attempted or an overall average of at least 80% for all program courses attempted (minimum of two program courses), or where one course or less is required, evidence of academic standing acceptable to the Dean.

c. Time in program

11 A full-time graduate student cannot commit more than 24 hours per week to employment. Any changes in a student's registration status will normally be made for a minimum of one semester. Normally, only one such change in status will be permitted in any one semester.
i. Master's students must be within the first 12 program-months of a one-year program, excluding any leave period.

ii. Master's students must be within the first 24 program-months for other than one-year programs, excluding any leave period.

iii. Ph.D. students must be within the first 48 program-months excluding any leave period.

iv. Ph.D. students who transfer from a master's program in accordance with General Regulation 1.2.1.3.1) must be within the first 48 program-months of the master's commencement date excluding any leave period.

d. In exceptional cases, an academic unit may recommend an extension of School of Graduate Studies Fellowship eligibility from baseline funds for one additional semester beyond the periods outlined above.

e. A student who was the recipient of a major scholarship or award, and as a result was ineligible for a School of Graduate Studies Fellowship (see School of Graduate Studies Fellowship Limitations section below), may be recommended in exceptional circumstances for an School of Graduate Studies Fellowship for one semester beyond the periods outlined above.

3. Procedures for awarding School of Graduate Studies Fellowships

For students meeting eligibility as in 2:

a. School of Graduate Studies Fellowships will normally be offered at the time of admission for a one-year period. Details should be specified in the “Program of Study” form. If the admission is deferred, the School of Graduate Studies Fellowship may, on the recommendation of the academic unit, be deferred for a maximum of three semesters.

b. School of Graduate Studies Fellowships are renewable subject to the eligibility criteria 2a and 2c above and, in the case of thesis students, a satisfactory annual progress report. School of Graduate Studies Fellowships will normally be renewed at a value which is at least equal to that received in the offer of admission from the University and administered by the School of Graduate Studies in the initial program year.

c. On commencement of a semester, academic units may recommend allocation of uncommitted or previously committed School of Graduate Studies baseline funds that become available to:
   i. applicants, newly admitted students, or in-program students who were not offered School of Graduate Studies Fellowship support,
   ii. in-program students who did not meet eligibility criteria on admission but are being reconsidered on the basis of improved performance as in 2.b.ii, or
   iii. increase School of Graduate Studies Fellowship support to in-program students.

Normally, such allocations will not be retroactive and will be in effect for the remainder of the student's eligible funding period, subject to renewal as in 3.b. above.

d. Students receiving School of Graduate Studies Fellowships who transfer from a master's program to a Ph.D. program shall receive the standard baseline differential
support awarded to master’s vs. Ph.D. students currently in place in the student’s academic unit of record. This differential support will be paid only for semesters in which a master’s School of Graduate Studies Fellowship was received. The cost will be attributed to the academic unit’s School of Graduate Studies baseline.

4. School of Graduate Studies Fellowship Limitations

a. Normally, the maximum allowed School of Graduate Studies Fellowship for a master's student is limited to $12,500 per annum (pa.) and the maximum allowed School of Graduate Studies Fellowship for a Ph.D. student is limited to $16,500 pa.

b. School of Graduate Studies Fellowships may not be awarded to:
   - Master’s students receiving in excess of $27,500 pa from all sources in a program year (September - August; January - December; May - April), excluding graduate assistantships, or
   - Ph.D. students receiving in excess of $35,000 pa from all sources in a program year (September - August; January - December; May - April), excluding graduate assistantships.

5. Administration of graduate student support (regardless of source)

a. Graduate student support will be paid bi-weekly. Academic units are responsible for initiating payments to students (including renewals) by submission of a Graduate Student Support Payroll form. It is also the responsibility of the academic unit to stop payments to students by means of the same form (e.g., program completed, leave of absence, academic standing, etc.).

b. Recommendations for adjustments to the level or source(s) of bi-weekly funding received by any student must be submitted to the School of Graduate Studies prior to the beginning of the semester in which these changes will take effect. Changes in School of Graduate Studies Fellowship amounts will normally remain in effect for the remainder of the student’s eligibility period.

c. Lump sum payments from sources other than the School of Graduate Studies baseline allocation may be made at any time, but will result in adjustment of School of Graduate Studies Fellowship amounts for the program year if limitations in 4 above are exceeded. However, where special circumstances warrant, and on approval of the Dean, the School of Graduate Studies Fellowship may be maintained.

6. Graduate Assistantships (GAs)

Graduate assistantships are an integral part of graduate student funding. The remuneration for graduate assistantship duties forms a portion of the student's financial support, and is awarded and paid on a semester basis. The duties to be performed by a student holding an appointment as a graduate assistantship will be assigned by the academic unit. Normally, a graduate assistantship unit consists of 56 hours of work over a 14-week period within a semester (i.e., an average of 4 hours per week). Graduate assistantships are governed by the Teaching Assistants’ Union of Memorial University of Newfoundland (TAUMUN) Collective Agreement which is available online on the Office of Faculty Relations

12 In units not specifying baseline funding norms, every attempt should be made to minimize the financial impact to the student.
courses, or assisting with research. Senior graduate students may occasionally be asked to carry out limited classroom instruction.

7. Review

These guidelines will be reviewed every three years by the Dean of Graduate Studies in consultation with an ad hoc advisory committee with representation from the faculties of arts, science, medicine, engineering, a professional unit and the Graduate Students’ Union.

Special Fellowships

In addition to fellowships offered through the Department of Earth Sciences, the School of Graduate Studies holds a university-wide competition for the School of Graduate Studies F.A. Aldrich Fellowships.

School of Graduate Studies F.A. Aldrich Fellowships

Six to eight fellowships valued at $20,000 per annum at the doctoral level and $15,000 at the master’s level will be awarded to incoming full-time Canadian students. Renewal for one year at the doctoral level is possible. These fellowships were established to celebrate the 25th Anniversary of the School of Graduate Studies in 1999 from a portion of the proceeds of the Opportunity Fund and in honour of Memorial’s first Dean of the School of Graduate Studies, Dr. F.A. Aldrich (1970-1987). Recipients will be selected by the Dean of the School of Graduate Studies, on the recommendation of the Awards and Medals Committee, on the basis of exceptional academic achievement.

Full-time status and fellowship eligibility

Fellowships are only awarded to full-time students. To maintain full-time status as a graduate student at Memorial and thereby maintain eligibility for a fellowship, a graduate student cannot be employed for more than 24 hours of work per week from all employment sources. In the case of a leave of absence, fellowship funding stops effective from the date the leave was granted. If the leave of absence is granted retroactively, and includes time when the graduate student was receiving fellowship funding, the graduate student may be required to repay this money. If a graduate student receiving University support wishes to transfer to part-time status, funding is stopped.

The fellowships are for student support with respect to tuition, fees, books and living expenses. A student is not expected to pay for the cost of research from his/her fellowship which is normally paid by their supervisor.

For information regarding Fellowships:

Cherie Williams, Fellowships Officer
School of Graduate Studies
Room IIC-2012, Inco Innovation Centre
Memorial University of Newfoundland
St. John’s, NL, A1C 5S7

Telephone: (709) 864-2441
Fax: (709) 864-3421
Email: cheriew@mun.ca
GRADUATE SCHOLARSHIPS AND AWARDS

The different kinds of scholarships and awards are listed on the School of Graduate Studies scholarship website. To be considered for these scholarships and awards requires either student application or departmental nomination. School of Graduate Studies also administers a few external awards - the School is responsible for processing the applications but the awarding of the scholarships originates from an external agency. There are also general travel grants available to all graduate students, one grant per degree. Each of these is described in detail below.

Graduate Scholarships Available Exclusively to Earth Science Students

There are several scholarships that are available for students enrolled in graduate programs in the Department of Earth Sciences. Many of these scholarships are awarded solely on the basis of academic performance or standing, whereas others also take financial need into account. Please see the list of scholarships below for limitations and eligibility. In the Fall semester of each year, the Graduate Matters Committee in the Department of Earth Sciences develops a list of all students who meet the University’s scholarship standing requirements and provides the Head with a list of recommendations for awards. [Note: Graduate students do not need to apply for the scholarships and bursaries listed in this section. All students in the program will be considered for awards for which they are eligible, and the awards made on basis of the specified criteria]. On receiving the list from the Graduate Matters Committee, the Head makes any changes the student sees fit before communicating it to the Scholarships Officer in the School of Graduate Studies for final approval by the Dean. Please note that, because the number of scholarships is limited, not all students who meet the eligibility requirements may receive an award. Some awards may be held for more than one year, but are renewable only if the student maintains scholarship standing. Awards are usually disbursed in one installment. All funds awarded through the Scholarships and awards program are in addition to other funding unless they exceed mandated funding caps.

The Department holds an annual Scholarships and Awards reception, either in the Fall or in the Winter semesters. Representatives of the donors present the scholarships to the winners. In actual fact the student will have received the cheque from the university long before this. In addition external scholarships received by our students are noted, and presented. This reception covers both undergraduate and graduate awards.

Buchans Scholarship Fund of ASARCO Incorporated

ASARCO Incorporated has established a scholarship fund, the annual interest on which will provide for students enrolled in the Department of Earth Sciences, Memorial University of Newfoundland, either a scholarship for post-graduate study and research, valued at $5000.00; or two scholarships for undergraduate study, valued at $500.00 each. The latter scholarships will be available only when no suitable candidate can be found for the former. In order to qualify for these awards, students must be native-born Newfoundlanders or graduates of Newfoundland high schools. In the case of the graduate scholarship, the award will be made by the Dean of Graduate Studies on the recommendation of the Head, Department of Earth Sciences; in the case of the undergraduate scholarships, by the Senate Committee on Scholarships and Financial Aid on the recommendation of the Head, Department of Earth Sciences. Should no candidates be available in any year, the awards may be held over.
The Hugh Lilly Memorial Scholarship

This scholarship, presently valued at a minimum of $3000.00 per annum, will be awarded to the most promising graduate in the Geosciences at Memorial University of Newfoundland who is continuing studies at the post-graduate level either at Memorial University of Newfoundland or elsewhere. The award honours the memory of the late Hugh Lilly, an instructor in the Earth Sciences Department. Selection of the winning candidate will rest with the Senate Committee on Undergraduate Scholarships and Financial Aid in consultation with the Earth Sciences Department.

Dr. Alfred K. Snelgrove Graduate Scholarship in Earth Sciences

A bequest from Dr. Alfred K. Snelgrove makes possible up to two scholarships, valued at $5,000.00 per annum, for students applying for or enrolled in a graduate program in the Department of Earth Sciences. These scholarships are intended primarily for Canadian citizens or landed immigrants, and are awarded by the Dean of Graduate Studies on the recommendation of the Head of the Department of Earth Sciences. The scholarships are tenable for one year, and may be renewed. They may be held in addition to other scholarships and fellowships, and will be awarded only to applicants whose academic excellence and research potential can be clearly demonstrated.

The Association of Professional Engineers and Geoscientists Past President's Geoscience Scholarship

This scholarship valued at a minimum of $1,000.00 was established by the Association of Professional Engineers and Geoscientists of Newfoundland. It is awarded annually on the basis of scholarship standing to a Geoscience student at Memorial University of Newfoundland. It is open to either graduate or undergraduate students in any given year and will be allocated as such at the discretion of the Department Head. In the case of undergraduates, the scholarship is awarded by the Senate Committee on Undergraduate Scholarships and Financial Aid upon the recommendation of the Head, Department of Earth Sciences in consultation with APEGN. In the case of graduates it is awarded by the Dean of Graduate Studies upon recommendation of the Head, Department of Earth Sciences, in consultation with APEGN.

The Ernst R. Deutsch Memorial Scholarship in Geophysics

This scholarship is named in honour of Dr. Deutsch, a long-time faculty member at Memorial University of Newfoundland who passed away in 2000. The scholarship, valued at a portion of the income on the investment, will be awarded annually to a senior undergraduate student in the Earth Sciences (or related field of Physics) whose concentration is Geophysics. If there is no qualified undergraduate student, the scholarship will be awarded to a full-time graduate student in Earth Sciences who has received an undergraduate degree from Memorial University and whose area of concentration is Geophysics. It will be awarded by the Senate Committee on Undergraduate Scholarships and Financial Aid on the basis of scholarship standing and a recommendation from the Head, Department of Earth Sciences in the case of an undergraduate student; in the case of a Graduate Student it will be awarded by the Dean of Graduate Studies on the recommendation of the Head, Department of Earth Sciences.
The Dennis R. Prince Memorial Scholarship

The Dennis R. Prince Memorial Scholarship has been made available by the Prospectors and Developers Association of Canada, Falconbridge Ltd., the Porcupine Prospectors and Developers Association, the mining community, colleagues, friends and family of the late Dennis Prince. Dennis graduated from Memorial University of Newfoundland in 1970 with a B.Sc. Honours degree. He led a distinguished career as a geologist with twenty-nine years at Falconbridge Ltd. The annual scholarship, valued at $2,000.00 and an engraved Brunton compass, will be awarded to a final year student specializing in mineral exploration and development in the honours program of the undergraduate degree in Earth Sciences at Memorial University of Newfoundland. If there is no qualified undergraduate student a graduate student who has been accepted for post-graduate studies in mineral exploration and development at Memorial University of Newfoundland and who intends to pursue a career in the mineral industry will be considered. The qualifying student must demonstrate scholarship standing, strong personal values including a strong work ethic and high personal integrity. Active participation and leadership in geological associations and activities such as The Alexander Murray Geology Club and the Geological Association of Canada may be taken into consideration as well as financial need. In the case of undergraduates the scholarship will be awarded by the Senate Committee on Undergraduate Scholarships and Financial Aid. In the case of graduates it will be awarded by the Dean, School of Graduate Studies. In both cases it will be based on a recommendation from the Head, Department of Earth Sciences in consultation with the PDAC and the Prince family.

Other Internal Scholarships and Awards

The following awards are administered by the School of Graduate Studies and are based on nominations from the individual academic units. Please visit their website for more internal scholarships and deadlines.

The LGL Limited Scholarship in Marine Science

This scholarship, valued at $1,000.00, was established by LGL Limited. It will be awarded annually to a student in the Faculty of Science who is following a program of studies related to Marine Science. The successful candidate will be either a fourth year undergraduate student doing an honours program or a graduate student. Wherever possible, preference will be given to a student from a fishing family, but other students will be considered. In the case of undergraduate students the scholarship will be awarded by the Senate Committee on Undergraduate Scholarships and Financial Aid on the basis of scholarship standing. In the case of graduate students the scholarship will be awarded by the Dean, School of Graduate Studies.
University Support

A limited amount of University Support may be awarded to full-time students working toward graduate degrees at this University. Awards will be made by the Dean of Graduate Studies on the recommendations of Departments. These awards may be supplemented by remuneration for extra duties performed in the Departments at the discretion of Department Heads. Contact Cherie Williams (cheriew@mun.ca), Fellowships Officer at the School of Graduate Studies, for further information.

Fellow of the School of Graduate Studies

The title of Fellow of the School of Graduate Studies is awarded in recognition of outstanding academic achievement throughout a graduate program. It may be awarded only once, during the last year of a student's graduate program. This distinction will be noted on the student's Memorial University transcript. Nominations must be submitted to the Dean of Graduate Studies by the heads of academic units at least one month prior to Convocation, i.e. April and September.

Nominees for the title of Fellow of the School of Graduate Studies must have:

- Maintained a high academic standing, defined as an 'A' grade in each graduate program course or an 85 overall average in graduate program courses taken at Memorial University and graduate program courses which have been transferred from inter-institutional collaborative programs.
- Demonstrated performance of special merit in the graduate program. Factors which may be considered include, but are not limited to, the following:
  - an active and successful research program;
  - publications, presentations or patents;
  - honours, awards or scholarships; or
  - other factors deemed relevant by the head of the academic unit.

The following internal awards are administered by the School of Graduate Studies. These awards require the submission of an application for each award. Please visit their website for more internal awards to which you must apply.

F. A. Aldrich Graduate Award

The F.A. Aldrich Graduate Award has been established in memory of the first Dean of Graduate Studies at Memorial University. Up to three annual awards of $2,000 may be made. Awards will be made by the Dean of Graduate Studies to alumni of Memorial who are in the first year of a full-time graduate program at the time of application and will be based on academic merit, and need only if all other things are equal. If the application is based on need, please make a case. For further information, contact the School of Graduate Studies. recommendation from the Dean, Faculty of Science.

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13 The minimum required academic standing for candidates in the MBA program is an overall average of 80% in graduate program courses, with no grade lower than 75%. 

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The National Scholarship in Ocean Studies at Memorial University of Newfoundland

The federal Department of Fisheries and Oceans (DFO) has helped to establish The National Scholarship in Ocean Studies to be awarded to an outstanding Ph.D. candidate in an aspect of ocean studies which may include: chemistry, biochemistry, biology, mathematics and statistics, physics and physical oceanography, earth sciences, geography, economics or engineering. The award, valued at $18,000 per annum for a maximum of three successive years, may be held in conjunction with other major awards. The award is made only on the basis of academic excellence and the successful candidate must exhibit and maintain first-class standing. Guidelines and applications for the scholarship are available from the school of Graduate Studies. Final selection of the candidate will be made by a committee which reports to the Dean of the School of Graduate Studies. A one-time grant of up to $2,000 may be made in support of travel to appropriate conferences where the student is presenting research findings. Deadline for application to the School of Graduate Studies will be July 1 in any one year when the scholarship is available.

Women’s Association of Memorial University of Newfoundland Graduate Student Scholarship

Two Master’s level and two Ph.D. level scholarships valued at $1,200.00 each are awarded annually to full-time students entering a program in the School of Graduate Studies. Of the Master’s level awards, one shall be for a thesis program, and one for a non-thesis program. Financial need as well as scholarship standing will be taken into consideration. The awards will be made upon the recommendation of the Dean of Graduate Studies.

External Scholarships and Awards

These scholarships and awards are administered by groups external to Memorial University. This is a list of organizations which have awarded scholarships to Memorial University students. Some have an award specifically designated for Memorial, for others the competition is national or international. Students are encouraged to apply for these awards and to search the Internet for others for which they may be eligible. Please visit their website for more external scholarships and deadlines.

Society of Exploration Geophysicists

The SEG is a large, international, organization of geophysicists based in Tulsa, Oklahoma. It offers a number of undergraduate and graduate scholarships which Memorial students have been successful in being awarded occasionally. Forms and information are available from their website.

KEGS Foundation

KEGS Foundation is a charitable organization set up to promote student scholarships in geophysics in Canada. The Foundation distributes an estimated $5000.00 in scholarships annually to promising undergraduate and graduate students with interest in pursuing a career in geophysics. The amount of each scholarship awarded ranges from $500 to $1000, depending on indicated merit and need. Further information and applications are available from their website.
Special Scholarships for Students to Pursue Graduate Studies Related to Resource Development

The “Special Scholarships for Studies in the Sciences Related to Resource Development” will be in the amount of $7500.00 annually for students registered in full-time post-graduate studies at Memorial University of Newfoundland, in programs leading to the Master's and/or Doctorate degrees in the Sciences related to Resource Development. A scholarship may be renewed and awarded for one additional year only.

The scholarships are tenable at Memorial University of Newfoundland, but under special circumstances may include approved studies abroad. Eligible candidates normally should be residents of the province, or should have been resident in the province for at least three years prior to entering the program, excluding time spent at post-secondary institutions.

Candidates will normally have a First-Class Undergraduate Degree or a Second-Class Degree with First-Class standing in courses in their major field of study. Candidates should apply for the scholarships to the Office of the Dean of Graduate Studies, Memorial University of Newfoundland

Natural Sciences and Engineering Research Council of Canada (NSERC)

The Council awards each year, in open competition, a number of post-graduate scholarships in Science and Engineering to assist students in undertaking graduate study and research leading to advanced degrees. These scholarships and fellowships are tenable at both Canadian universities and institutions outside Canada. Further information and applications are available from their website.

Travel Funding

The School of Graduate Studies, the Faculty of Science and the Graduate Students' Union provides travel funding to Memorial University's masters and doctoral students who are presenting papers/posters at conferences outside of Memorial. Students can receive up to the maximum amount allowable from each of these funding sources throughout their graduate program.

Faculty of Science

The Faculty of Science recognizes the considerable value to graduate students of presenting their work and interacting with their peers from other institutions. To facilitate that process, the Faculty provides grants in support of conference travel according to the following guidelines. It is expected that students will seek additional support from their Department, the School of Graduate Studies, the research supervisor, and any other relevant sources.

- The grants shall be for a maximum of $400.
- M.Sc. students shall be eligible for one such grant during their program. Typically this will be taken near the completion of the program so that the student will be able to present his/her research results.
- Ph.D. students shall be eligible for two such grants during their programs, with the proviso that no more than one grant shall be given in any one fiscal year.
- To be eligible to receive a grant, the student must be presenting at the conference (poster or oral presentations are equally acceptable)
Application must be made to the office of the Dean of Science using the appropriate form. Where possible, proof of acceptance of a paper for presentation should be provided when funding is applied for. If the paper has not been accepted at the time of application, funding will be provided conditional on acceptance.

Travel expenditures and claims must conform to the travel guidelines of the university. Information and advice may be obtained from the departmental office of the student.

Deviations from this policy may be made at the discretion of the Dean.

Graduate Students' Union

All graduate students are eligible to receive up to $250 per Masters degree program or up to $500 per PhD program to aid in conference-related costs. Students may choose to split this amount over several conferences, rather than applying for the entire sum at once. Thus, conference funding may be available more than once during a graduate program. Students are also eligible for up to $150 of the above amounts for research trips, field trips, conferences at which they are not presenting, workshops, societal meetings or seminar series that are related to their academic program.

Students who are participating in an out-of-province conference are eligible to apply for funding. While assistance is available only after the conference is completed, students should apply for the funding a minimum of four weeks before travel begins. Conference aid from the Graduate Students’ Union is not guaranteed and is contingent upon the availability of funds and the submission of a complete application package. For an application package or for more information drop by the GSU general office in GH-2007.

Further information can be found on the GSU Web site: Email: gsu@mun.ca

School of Graduate Studies

The School of Graduate Studies offers travel assistance to graduate students who are presenting papers/posters at conferences. This funding may be used in conjunction with that received from the Graduate Students’ Union. For more information visit the main office of the School of Graduate Studies at IIC-2012, Inco Innovation Centre (IIC) or email awilliam@mun.ca.

For information regarding Scholarships:

Gail Lamkin
Scholarships Officer
School of Graduate Studies
Room IIC-2012
Inco Innovation Centre
Memorial University of Newfoundland
St. John's, NL, A1C 5S7

Telephone: (709) 864-2600/2445
Fax: (709) 864-3421
Email: glamkin@mun.ca
CONTACT INFORMATION

SCHOOL OF GRADUATE STUDIES

General Inquires, IIC-2012
Tel.: (709) 864-2445, Fax.: (709) 864-4702
E-mail: sgs@mun.ca

DEPARTMENT OF EARTH SCIENCES

Michelle Miskell
Manager of Academic Programs
General Office, ER 4063
Tel.: (709) 864-4464, Fax.: (709) 864-7437
E-mail: mmiskell@mun.ca
## APPENDIX I

### M.Sc. Student Activities and Milestones

<table>
<thead>
<tr>
<th>Activity</th>
<th>Timing</th>
<th>Action needed</th>
<th>By</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supervisory Committee Meeting</td>
<td>Within the first month of arrival at MUN</td>
<td>Scheduling appropriate faculty and student</td>
<td>Supervisor</td>
</tr>
<tr>
<td>Agree course requirements</td>
<td>Within the first month of arrival at MUN</td>
<td>Discussion of thesis topic and training needs</td>
<td>Supervisory Committee</td>
</tr>
<tr>
<td>English Language Placement Test</td>
<td>Upon arrival at MUN</td>
<td>Student to schedule</td>
<td>ESL students only</td>
</tr>
<tr>
<td>GRIP</td>
<td>Winter Semester of first year</td>
<td>Register &amp; attend</td>
<td>Student</td>
</tr>
<tr>
<td>Thesis Proposal</td>
<td>6 months from arrival at MUN</td>
<td>Write thesis proposal, obtain signatures, submit with appropriate form to Manager</td>
<td>Student, Supervisory Committee</td>
</tr>
<tr>
<td>Meeting with Head of Dept and Manager of Academic Programs (MAP)</td>
<td>6 months from arrival at MUN</td>
<td>Thesis Proposal and Thesis Proposal submission form, Completed supervisory Report form (including timeline to completion)</td>
<td>Student and Supervisory committee</td>
</tr>
<tr>
<td>Completion of 6 credit hours of Courses</td>
<td>Within 12 months of registration</td>
<td>Register attend and pass with B grade or better</td>
<td>Student</td>
</tr>
<tr>
<td>Research on thesis topic</td>
<td>Ongoing</td>
<td>Hard work</td>
<td>Student</td>
</tr>
<tr>
<td>Supervisory committee meeting and completion of Annual Progress Report</td>
<td>Before 6 month meeting with Head and MAP</td>
<td>Schedule all of supervisory committee and student</td>
<td>Supervisor</td>
</tr>
<tr>
<td>Year 2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Research</td>
<td>Ongoing</td>
<td>Hard work</td>
<td>Student</td>
</tr>
<tr>
<td>Present GS³ Seminar</td>
<td>Fall or Winter semester of second year in program</td>
<td>Choose date in conjunction with faculty member responsible for the GS³ series</td>
<td>Student</td>
</tr>
<tr>
<td>Completion of Thesis paperwork</td>
<td>Initiate 2 months before anticipated submission</td>
<td>Student to meet with Manager of Academic Programmes and ensure completion of forms</td>
<td>Student, Supervisory Committee and Manager of Academic Programs</td>
</tr>
<tr>
<td>Appointment of Examiners form</td>
<td>Prior to submission of the thesis for examination</td>
<td>Supervisor to get form from, and submit to, Manager of Academic Programs</td>
<td>Supervisor, Manager of Academic Programs, HoD</td>
</tr>
<tr>
<td>Submission of Thesis</td>
<td>Prior to end of year 2 (to a maximum of 7 years)</td>
<td></td>
<td>Student</td>
</tr>
<tr>
<td>Examination of Thesis</td>
<td>Takes 2-6 months</td>
<td>Reading of thesis and submission to Dean (SGS)</td>
<td>Examiners</td>
</tr>
<tr>
<td>Correction of Thesis</td>
<td>Must be completed within 6 months of return of thesis to the department</td>
<td>Student meets with committee to discuss recommended corrections and undertakes to</td>
<td>Student</td>
</tr>
<tr>
<td>Activity</td>
<td>Timing</td>
<td>Action needed</td>
<td>By</td>
</tr>
<tr>
<td>---------------------------------------------------</td>
<td>----------------------------------</td>
<td>------------------------------------</td>
<td>----------------------------------</td>
</tr>
<tr>
<td>Submission of corrected thesis and associated paperwork</td>
<td>Upon completion of corrections</td>
<td>complete them within 6 months</td>
<td>Student and supervisory committee</td>
</tr>
</tbody>
</table>
# APPENDIX II

## Ph.D. Student Activities and Milestones

<table>
<thead>
<tr>
<th>Activity</th>
<th>Timing</th>
<th>Action needed</th>
<th>By</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Year 1</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Supervisory Committee Meeting</td>
<td>Within the first month of arrival at MUN</td>
<td>Scheduling appropriate faculty and student</td>
<td>Supervisor</td>
</tr>
<tr>
<td>Agree course requirements</td>
<td>Within the first month of arrival at MUN</td>
<td>Discussion of thesis topic and training needs</td>
<td>Supervisory Committee</td>
</tr>
<tr>
<td>English Language Placement Test</td>
<td>Upon arrival at MUN</td>
<td>Student to schedule</td>
<td>ESL students only</td>
</tr>
<tr>
<td>Create Comprehensive Exam Committee</td>
<td>After first Supervisory committee Meeting</td>
<td>Supervisor to give list of potential examiners to HoD</td>
<td>Supervisor and HoD</td>
</tr>
<tr>
<td>Choose Comprehensive Exam Topic &amp; Set Exam Date</td>
<td>Within one month of arrival at MUN</td>
<td>Schedule meeting of Examination Committee To include student.</td>
<td>Supervisor and HoD</td>
</tr>
<tr>
<td>Submission of Term Paper</td>
<td>3 months from receiving term paper topic. Normally before end of first semester (or end of second semester ESL students)</td>
<td>Hard work to prepare term paper</td>
<td>Student</td>
</tr>
<tr>
<td>Comprehensive Exam</td>
<td>Within 2 weeks of submission of term paper</td>
<td>Preparation of seminar and oral defence</td>
<td>Student and Examination Committee</td>
</tr>
<tr>
<td>Set Thesis Proposal Exam Date</td>
<td>Following successful completion of Comprehensive Exam</td>
<td>Schedule presentation</td>
<td>Supervisory Committee</td>
</tr>
<tr>
<td>GRIP</td>
<td>Winter Semester of first year</td>
<td>Register &amp; attend</td>
<td>Student</td>
</tr>
<tr>
<td>Meeting with Head of Dept and Manager of Academic Programs</td>
<td>6 months from arrival at MUN</td>
<td>Thesis Proposal and Thesis Proposal submission form Completed supervisory Report form (including timeline to completion</td>
<td>Student Supervisor Supervisor committee</td>
</tr>
<tr>
<td>Thesis Proposal Defence</td>
<td>Before the end of 4 semesters in the program</td>
<td>Oral presentation</td>
<td>Student</td>
</tr>
<tr>
<td>Completion of 6 credit Hours of Courses</td>
<td>Within 12 months of registration</td>
<td>Register attend and pass with B grade or better</td>
<td>Student</td>
</tr>
<tr>
<td>Research on thesis topic</td>
<td>Ongoing</td>
<td>Hard work</td>
<td>Student</td>
</tr>
<tr>
<td>Supervisory committee meeting and completion of Annual Progress Report</td>
<td>Before 6 month meeting with Head and MAP</td>
<td>Schedule all of supervisory committee and student</td>
<td>Supervisor</td>
</tr>
<tr>
<td><strong>Year 2</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Research</td>
<td>Ongoing</td>
<td>Hard work</td>
<td>Student</td>
</tr>
<tr>
<td>Supervisory committee meeting</td>
<td>End of year 2</td>
<td>Schedule all of supervisory committee and student</td>
<td>Supervisor</td>
</tr>
<tr>
<td>Annual progress report 2 including timeline to completion, (failure to submit will trigger a meeting with HoD and Manager of Academic)</td>
<td>Immediately following supervisory committee meeting. not later than two years into the program</td>
<td>Complete report form Obtain signatures Submit to Manager of Academic Programs</td>
<td>Student Supervisor Supervisor committee</td>
</tr>
<tr>
<td>Activity</td>
<td>Timing</td>
<td>Action needed</td>
<td>By</td>
</tr>
<tr>
<td>----------</td>
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</tr>
<tr>
<td><strong>Programs)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Year 3</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Research</td>
<td>Ongoing</td>
<td>Hard work</td>
<td>Student</td>
</tr>
<tr>
<td>Present GS$^3$ Seminar Student</td>
<td>During the 3$^{rd}$ year</td>
<td>Choose date</td>
<td>Student</td>
</tr>
<tr>
<td>Supervisory committee meeting</td>
<td>End of year 3</td>
<td>Schedule all of supervisory committee and student</td>
<td>Supervisor</td>
</tr>
<tr>
<td>Annual progress report 3 including timeline to completion, (failure to submit will trigger a meeting with HoD and Manager of Academic Programs)</td>
<td>Immediately following supervisory committee meeting not later than three years into the program</td>
<td>Complete report form Obtain signatures Submit to Manager of Academic Programs</td>
<td>Student Supervisor Supervisory committee</td>
</tr>
<tr>
<td><strong>Year 4</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Research</td>
<td>Ongoing</td>
<td>Hard work</td>
<td>Student</td>
</tr>
<tr>
<td>Thesis writing</td>
<td>At least 6 months</td>
<td>Very hard work</td>
<td>Student</td>
</tr>
<tr>
<td>Completion of Thesis paperwork</td>
<td>Initiate 2 months before anticipated submission</td>
<td>Student to meet with Manager of Academic Programmes and ensure completion of forms</td>
<td>Student, Supervisory Committee and Manager of Academic Programs</td>
</tr>
<tr>
<td>Submission of Thesis</td>
<td>Prior to end of year 4 (to a maximum of 7 years)</td>
<td></td>
<td>Student</td>
</tr>
<tr>
<td>Appointment of Examiners form</td>
<td>Prior to submission of the thesis for examination</td>
<td></td>
<td>Supervisor Manager of Academic Programs</td>
</tr>
<tr>
<td>Correction of Thesis</td>
<td>Within 6 months of return of thesis to the department</td>
<td></td>
<td>Student</td>
</tr>
<tr>
<td>Submission of corrected thesis and associated paperwork</td>
<td>Upon completion of corrections</td>
<td></td>
<td>Student and supervisory committee</td>
</tr>
</tbody>
</table>