The Faculty of Graduate Studies academic guide contains all the rules and policies pertaining to the Faculty of Graduate Studies. Adherence to these rules is of utmost importance for the effective functioning/operation of programs and for guiding and monitoring the progress of students. The integrity of the process is at stake. The major goal of this guide is to prevent potential problems that may affect the completion of a student’s program. It is the responsibility of students and the unit offering a graduate program to read and follow the policies contained herein.

All regulations as laid out in the Faculty of Graduate Studies Academic Guide are subject to revision by the appropriate bodies of the Faculty of Graduate Studies. This compendium is presented as the most recent set of regulations as a guideline for students and staff. Regulations may vary from one department or program to another. Individual departments may have additional regulations that supplement these general regulations. All such supplementary procedures and regulations must be approved as specified by the By-Laws of the Faculty of Graduate Studies, be published and available to students, and kept on file in the Faculty of Graduate Studies Office.

For those programs that are administered through a Faculty (as opposed to a Department) the term “Department” should be substituted by “Unit” within this document (i.e. Department Head becomes Unit Head.)

**PREFACE**

The Faculty of Graduate Studies is a pan-University faculty charged with the oversight of the administration of all graduate programs at the University. Therefore these regulations apply to all graduate students in all programs in all academic units. Individual units may require specific requirements above and beyond those in the following document, and students should consult unit supplemental regulations for these specific regulations. All unit supplemental regulations require approval of the Faculty of Graduate Studies.

**Definitions**

The “Dean of the Faculty of Graduate Studies” shall be taken to mean the Dean of the Faculty of Graduate Studies or designate.

“Unit” shall be taken to mean the academic unit where the graduate student is pursuing his/her studies. Generally, this is the department. For Faculty-based programs, the Dean is the de facto Head of the unit. The term “unit” shall also include Schools of Faculties within the University. The Dean of the Faculty of Graduate Studies is the de facto Head of interdisciplinary programs administered by the Faculty of Graduate Studies. The Head of any unit may designate any of his/her responsibilities in this policy to another member of the unit, such as the Graduate Chair.

<table>
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<tr>
<th>Faculty of Graduate Studies Regulation</th>
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The BME Executive committee is made up of seven BME members appointed by the Director of the BME program. The committee is chaired by the Director or a Vice Director and ideally has equal representation (and must have at least one member) from each of the Faculties of Engineering, Health Sciences and Science. The members are typically appointed for a 3 year term, may serve consecutive terms and terms should be staggered to ensure continuity.

**GRADUATE PROGRAM EXECUTIVE COMMITTEE**

**PURPOSE:**

To initiate, support and coordinate the development and maintenance of the Biomedical Engineering Graduate Program at the University of Manitoba (UM).

**RATIONALE**

Biomedical Engineering education in Manitoba is provided at the graduate and undergraduate levels. At the graduate level, the Biomedical Engineering Program is an interdisciplinary program which falls under the Faculty of Graduate Studies (FGS) and operates with the support of the Faculties of Engineering, Health Sciences and Science. Faculty members are drawn from many departments within these (and other) faculties, and research is carried out at the University of Manitoba and at affiliated Hospitals and Industrial Labs.

The Biomedical Engineering Graduate Program aims to educate and train students at the M.Sc. and Ph.D. level in the field of Biomedical Engineering and the Program needs to ensure that students are well prepared for a career in Biomedical Engineering.

**TERMS OF REFERENCE**

The terms of reference of the Biomedical Engineering Graduate Program Executive Committee (BME-GPEC) are:

1. To oversee the routine functions of the BME program including
   1.1. The review and recommendation of graduate student applications
   1.2. The review of the offered core courses and evaluation of faculty performance
   1.3. The evaluation of the performance of the BME graduate students
   1.4. To identify and recommend students for
DUTIES AND OBJECTIVES OF SUB-COMMITTEES

The BME-GPEC has at least seven members plus a student representative. The Director of the Biomedical Engineering Graduate Program, serves as the BME-GPEC Chair, assisted by two Vice-Directors. The chairs of the four subcommittees that facilitate the mandate of the BME-GPEC are elected for a 3 year term at the annual meeting of all BME members. The Chair of the sub-committees may recruit members to his or her respective subcommittee; Up to two additional members at large may be nominated and elected at the annual BME meeting of all members to ensure balanced representation of all faculties.

SUBCOMMITTEES

Graduate Admissions, Students Progress and Awards Subcommittee
- Reviews and recommends acceptance for Graduate Student applications.
  - Ensure that student meets objective criteria for admissions to the graduate program.
  - Confirms the supervisor consent and support for student.
- Reviews current student performance and makes recommendations for remedial action for underperforming students.

Biomedical Engineering supplemental regulations approved by FGS Feb. 5, 2015
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<tr>
<th>Faculty of Graduate Studies Regulation</th>
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<tr>
<td></td>
<td>• Reviews applications for Fellowships, Travel Grants and other financial support and make recommendations to BME-GPEC for endorsement.</td>
</tr>
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<td></td>
<td>• Draft a budget to BME-GPEC to cover funding for graduate students.</td>
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<td></td>
<td>• Reports on its activities at regular BME-GPEC meetings.</td>
</tr>
</tbody>
</table>

**Graduate Curriculum Subcommittee**

• Ensure that the students’ programs of study meet the BME, FGS and the University of Manitoba regulations for the specific degrees being undertaken.

• Coordinates the program schedule to ensure that the necessary BME core courses are delivered in an appropriate fashion.

• Monitors and reviews the content of the BME core courses and the quality of the instruction.

• Ensure that the program curriculum meets national standards.

• Recommends program, structural or regulatory requirements to the BME-GPEC and following their endorsement by the BME-GPEC work with the FGS to get them approved.

• Reports on its activities at regular BME-GPEC meetings

**Membership Subcommittee**

• Determine the requirements for various classes of faculty membership in the BME program.

• Review and recommend applications for faculty membership in the BME program.

• Monitors activities of members with respect to the class of membership and recommend changes to BME-GPEC.

**Liaison & Outreach Subcommittee**

• Aims to encourage high quality students to apply to undergraduate and graduate BME programs.

• Coordinates with outreach committees in the Faculties of Engineering, Health Sciences and Science.

• Interacts directly with local schools, and the IEEE to help promote the profession and the BME programs in Manitoba.

**Note:**

Blue-shaded boxes must be filled in. Yellow-shaded boxes must be filled in if a unit offers that specific program route (i.e. Comprehensive Examination route)

*Biomedical Engineering supplemental regulations approved by FGS Feb. 5, 2015*
- Maintains and develops the BME Graduate Program website as a tool for outreach and marketing.
- Oversees the BME Seminar program
- Submits a budget to BME-GPEC to cover its activities.
- Reports on its activities at regular BME-GPEC meetings.

**Student Councilor**

- Reviews and represents issues of concern to students including (but not limited to) access to lab space and equipment, computational resources, teaching, course content, etc.
- Submits a budget to BME-GPEC to cover programmatic needs for students.
- Reports on activities at regular BME-GPEC meetings.

**CHAIR:** The Director of BME Graduate Programs (or delegate).

**MEMBERSHIP:**

1. All Core Faculty members of the BME Program are ELIGIBLE to serve on the BME-GPEC and/or to chair (or be a member) of one of its subcommittees.
2. All Faculty members of the BME Program are ELIGIBLE to serve as a member of a BME-GPEC subcommittee.
3. A student representative, elected annually in September by a majority of the BME graduate students. The student will not be present during any discussions of student or faculty performance.
4. Non-Voting Guests may be invited by the Chair of either the BME-GPEC or one of its subcommittees to attend specific meetings if members require expert advice unavailable within the committee to deal with an issue under discussion.
5. The BME-GPEC chair will call for nominations and will appoint subcommittee chairs for a term of nominally 3 years. Chairs may serve consecutive terms.
6. Membership in the BME-GPEC subcommittees is at the discretion of their respective chairs.
7. The membership of the BME-GPEC consists of the Director and two Vice-Directors of the BME Graduate Program, the Chair of the four (4) subcommittees and the Student Councilor. Up to two (2) additional members at-large may be added to ensure sufficient Faculty and professional representation.
REPORTING RELATIONSHIP:
The BME-GPEC reports through the Director of the BME Graduate Program to the Dean of the FGS.

FREQUENCY OF MEETINGS:
Three (3) times a year (September, March, June) and as required (at the call of the chair) in order to meet operational issues. Virtual (e-mail/telephone) meetings may be held if an urgent review and recommendation is required.

RESOURCES:
Graduate Student Advisor
- Takes minutes at BME-GPEC.
- Maintains student records.
- Coordinates flow of admission requests, progress reports, grant and fellowship applications.
- Direct students to the appropriate resource to help address any conflict or issue that might arise.
- Interacts with Administrators at the UM to ensure a consistent flow of communication, related to approvals, funding and student progress.
- Coordinates and oversees the process for funding of students.
- Other activities as required by program demands and in support of the Director: BME Academic Program.
- Reports on activities at regular BME-GPEC meetings.

STANDING GUIDELINES:
- A quorum of at least four or 50% of the current BME-GPEC committee members, is required for decisions. The committee(s) should function as far as possible by consensus. Where consensus is not achieved, the majority decision will be respected. The Chair shall have the deciding vote in the case of a tie.
- The recommendations of the BME-GPEC must consider operational and financial issues and must ensure that its procedures and policies are in alignment with the vision, mission and values, policies and regulations of the University of Manitoba.
Faculty of Graduate Studies Regulation

Supplemental Regulation

Section 1: Application, Admission, and Registration Policies

1.1 Application and Admission Procedures

The application (and all required documentation) is to be submitted directly to the Faculty of Graduate Studies. Applicants should contact the department to which they are applying for the procedures, requirements and departmental application deadlines in effect.

1.1.1 Process:

1.1.1 (a) A completed official application for admission form must be submitted, together with the application fee and supporting documentation, to the Faculty of Graduate Studies.

NOTE: International students must pay special attention to the appropriate requirements with respect to transcripts (see application form for details).

1.1.1 (b) Applications are subsequently reviewed by the unit offering the program which will decide whether the applicant meets the unit’s criteria including, but not limited to, space, facilities, and advisors.

1.1.1 (c) Notification of recommended/rejected applications are sent by the Head of the unit to the Faculty of Graduate Studies. Applications recommended for admission are checked to determine if they meet the Faculty of Graduate Studies’ eligibility requirements. The Faculty of Graduate Studies then notifies applicants of their acceptance or rejection.

1.1.2 Deadlines for Recommended Applications (from Departments to the Faculty of Graduate Studies)

The following are the deadlines for receipt by the Faculty of Graduate Studies for recommendations from graduate units. Individual units may have earlier deadlines.

<table>
<thead>
<tr>
<th>Session</th>
<th>Start Date</th>
<th>Canadian/US</th>
<th>International</th>
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<tbody>
<tr>
<td>FALL</td>
<td>September</td>
<td>July 1</td>
<td>April 1</td>
</tr>
<tr>
<td>WINTER</td>
<td>January</td>
<td>November 1</td>
<td>August 1</td>
</tr>
<tr>
<td>SUMMER</td>
<td>May</td>
<td>March 1</td>
<td>December 1</td>
</tr>
</tbody>
</table>

IMPORTANT: Applicants are required to submit the application and documentation to the Faculty of Graduate Studies for an earlier deadline than those listed above. Applicants are advised to confirm the deadline of the unit to which the application is being made. Contact information for each unit can be found at http://umanitoba.ca/faculties/graduate_studies/admissions/index.html

The deadlines are meant to accommodate the needs of students in securing appropriate documentation. Late applications may be considered for the next available start date.

1.1.3 Application Fee

A $100.00 (CDN) fee must accompany admission applications from all Canadian, Permanent Resident or International applicants.

1.1.4 Transcripts

Applicants must arrange for official transcripts from all post-secondary institutions attended to be sent to the University of Manitoba. Applicants must ensure that the original transcripts bearing the university seal or attested copies are sent directly from their issuing university to the Faculty of Graduate Studies. In cases where the transcript does not/will not

Note:
Blue-shaded boxes must be filled in. Yellow-shaded boxes must be filled in if a unit offers that specific program route (i.e. Comprehensive Examination route)

Biomedical Engineering supplemental regulations approved by FGS Feb. 5, 2015
clearly state that a degree has been conferred, an official degree certificate must accompany the transcript. It is important that the transcript(s) arrive as soon as possible to coincide with the arrival of the application.

### 1.1.5 Transcripts: International

Where academic records from a country other than Canada are produced in a language other than English, the applicant must arrange for the submission of official literal translations of all records. To be official, original language documents and English translations must arrive together in envelopes which have been sealed and endorsed by the issuing institution.

### 1.1.6 Transcripts: University of Manitoba

University of Manitoba students are not required to submit University of Manitoba transcripts.

### 1.1.7 Proficiency in English

A successfully completed English Language Proficiency Test from the approved list is required of all applicants unless they have received a high school diploma or university degree from Canada or one of the countries listed on the English Language Proficiency Test Exemption List (see next section). If applicable, this score is required as a basis for admission and applicants will NOT be accepted pending receipt of an acceptable score. Documented proof of either of the above must be submitted with the application for admission. **Please note**: scores more than two years old are not acceptable.

Thresholds required for successful completion are indicated in parentheses. Note: Some units may require a specific test or test scores greater than those indicated below:

- University of Michigan English Language Examination Assessment Battery (MELAB) (80%)
- Test of English as a Foreign Language (TOEFL) – Paper-based test (550); Internet based - iBT (80)
- Canadian Test of English for Scholars and Teachers (CanTEST) (band 4.5 in listening and reading and band 4.0 in writing and oral interview)
- International English Language Testing System (IELTS) (6.5)
- Academic English Program for University and College Entrance (AEPUCE) (65%)
- Canadian Academic English Language Assessment (CAEL) (60 overall and 60 on each subset)

**Note**: In addition, foreign language students may be asked by the unit to complete the CanTEST prior to or following registration in the Faculty of Graduate Studies and, if need be, the unit may recommend remedial measures in language skills based on the results of the CanTEST.

### 1.1.8 English Language Proficiency Test Exemption List

Applicants holding secondary school diplomas and/or university degrees from certain countries, where the language of instruction if English, are exempt from the English Language Proficiency Test requirement. A list of additional countries exempt from the English Language Proficiency Test can be found at [http://umanitoba.ca/faculties/graduate_studies/admissions/english_exemption_list.htm](http://umanitoba.ca/faculties/graduate_studies/admissions/english_exemption_list.htm)

### 1.1.9 Letters of Recommendation

Letters of Recommendation forms are available in the Faculty of Graduate Studies Office, 500 University Centre or on the web:

http://umanitoba.ca/faculties/graduate_studies/media/Letter_Support-Application.pdf

Two Letters of Recommendation must be sent to the Faculty of Graduate Studies in individually sealed envelopes with the referee’s signature across the closing flap of the envelope.

In addition to 2 letters of recommendation, the following must be submitted:
- A Curriculum Vitae
- A letter describing your career goals and research interests, showing how these relate to the research program of your proposed faculty supervisor.

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**Note:**
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Alternatively electronic letters of reference will also be accepted. Applicants should check with the unit to which they are applying as some units require more than two Letters of Recommendation on a form approved by individual units.

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<tr>
<th><strong>Faculty of Graduate Studies Regulation</strong></th>
<th><strong>Supplemental Regulation</strong></th>
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<tr>
<td>1.1.10 Admission Tests</td>
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<tr>
<td>Some units require admissions tests, such as the Graduate Record Examination (GRE) or the Graduate Management Aptitude Test (GMAT). These requirements are listed in the supplemental regulations of the particular unit, and if required, the scores must be submitted at the time of application.</td>
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<tr>
<td>1.1.11 Entrance Requirements</td>
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<tr>
<td>The minimum standard for acceptance into any category in the Faculty of Graduate Studies is a 3.0 Grade Point Average (GPA) or equivalent in the last two previous years of full time university study (60 credit hours).</td>
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<tr>
<td>1.1.12 Eligibility of University of Manitoba Staff Members</td>
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<tr>
<td>A staff member at the University of Manitoba at the rank of Assistant Professor or above is not eligible to apply for admission to a graduate program in the unit in which the appointment is held.</td>
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<tr>
<td>1.2 Registration Procedures</td>
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</tr>
<tr>
<td>1.2.1 Registration</td>
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<tr>
<td>Undergraduate students are not allowed to register in graduate courses; that is, admission to the Faculty of Graduate Studies is a condition for registration in courses at the 6000 level and above.</td>
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<tr>
<td>All graduate students must initially register in the term specified in their letter of acceptance as specified in the Academic Schedule of the Graduate Calendar. Any student not registering by registration deadline for the term specified in their letter of offer will be required to re-apply for admission. In exceptional circumstances and with prior approval from the unit, a student may defer registration for up to one term following acceptance into the Faculty of Graduate Studies. In the case of international students, admission may be deferred, with prior approval from the unit, for up to one year following acceptance.</td>
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<tr>
<td>All programs must be approved by the Head of the major unit or designate. Approval to take courses from units outside the major unit must be obtained from the outside unit.</td>
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<tr>
<td>The approval or denial of admission and registration to two programs rests with the Dean of the Faculty of Graduate Studies in consultation with the unit concerned. The approval/denial must be submitted to the Faculty of Graduate Studies prior to the student’s admission/registration.</td>
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<tr>
<td>Where a student does register in two programs, the student must declare themself as part-time in at least one of the programs. Students should note that completing a graduate program as a part-time student will affect their eligibility for the University of Manitoba Graduate Fellowship (UMGF) and may limit other funding possibilities.</td>
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<tr>
<td>1.2.2 Re-Registration</td>
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<tr>
<td>Any student whose program of study extends for more than one year must re-register in both the fall and winter terms of each succeeding year of his/her program until a degree is obtained (or in the case of pre-Master’s circumstances, their program is completed). <strong>Failure to re-register will result in the discontinuation of his/her graduate status.</strong> A student who has been discontinued and would like to be considered for continuation in a program must apply for re-admission, which is not guaranteed. The re-registration requirement does not apply to occasional students, visiting students, pre-Master’s students or students on an Exceptional or Parental Leave of Absence (please refer to “Leave of Absence”, Section 8 of this Guide).</td>
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<tr>
<td>The notation ‘Discontinued Graduate Program’ will be placed on the academic record of any</td>
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</table>

**Note:**
Blue-shaded boxes must be filled in. Yellow-shaded boxes must be filled in if a unit offers that specific program route (i.e. Comprehensive Examination route)

*Biomedical Engineering supplemental regulations approved by FGS Feb. 5, 2015*
### 1.2.3 Registration Revisions

For designated periods subsequent to registration, approved revisions may be made. It is required that students adhere to dates and deadlines as published in the Academic Schedule of the Graduate Academic Calendar.

**Note:** Graduate students are not permitted to withdraw from courses without written permission from their unit Head on recommendation from their advisor/advisory committee. The notation “Required to Withdraw” will be placed on the academic record of any graduate student who has withdrawn from courses without such approval.

### 1.2.4 Western Deans’ Agreement

This agreement was established in 1974 as an expression of co-operation and mutual support among universities offering graduate programs in western Canada. Its primary purpose is the reciprocal enrichment of graduate programs throughout western Canada. This agreement is not intended to preclude other agreements between participating institutions.

1.2.4.1 The Western Deans’ Agreement normally provides an automatic tuition fee waiver for visiting students. Graduate students paying normal required tuition fees to their home institution will not pay tuition fees to the host institution.

1.2.4.2 Students may be required to pay student, activity, application, or other ancillary fees to the host institution, according to general policies in effect at the host institution. Wherever possible, these fees will also be waived.

1.2.4.3 Students will qualify for the fee waiver if they:

a) present the “Authorization Form: Western Deans’ Agreement” signed by the Dean or designate and the unit Head or advisor of a participating Western institution specifying the courses to be taken for credit toward a graduate degree program at their home institution;

b) are in good standing in a graduate program at the home institution;

c) have paid all current and back fees at the home institution.

1.2.4.4 Students must meet all requirements as prescribed by the host university’s regulations, deadlines, class capacities, and course prerequisites.

1.2.4.5 Registration is possible in courses at both the graduate and undergraduate levels, and in credit courses offered through distance education or other means. To be eligible, courses must be an integral part of the applicant’s graduate degree program. Fee waiver is not permitted for audit or non-credit courses.

1.2.4.6 Students must have the Authorization Form approved by the relevant unit Head and the Faculty of Graduate Studies at the host institution at least two weeks prior to the commencement of the course(s) requested. The fee waiver is not available retroactively.

1.2.4.7 Students are subject to regulations of the home institution governing credit for the courses to be undertaken. As a condition of registration at the host institution, students will arrange for official transcripts from the host institution to be sent to the home institution confirming successful completion of courses selected.

1.2.4.8 Students must send confirmation of registration and notice of any change to the graduate student who has failed to maintain continuous registration.
1.2.4.9 Students may not claim fee waivers under the terms of this Agreement for a period of more than 12 months in total.

1.2.4.10 Each institution has its own regulations regarding the maximum number of transfer credits permitted in a given degree program. A list of the participating Universities can be found at http://wcdgs.ca/

1.3 Course Classifications

1.3.1 General Classifications

Students who register through Aurora Student Information System (Aurora Student) must also have prior approval of the unit Head or designate. Students registering through Aurora Student should add only those courses that are a Major course in their program. Courses with Auxiliary "X", Audit "A", or Occasional "O" status (see below) must be added by the unit.

"X" Auxiliary course: Course is not a major requirement of the program but is required by the student’s advisor. Extra courses that are not part of the Master’s or Ph.D. program but which are specified and required by the student’s advisor, may be classified as X (Auxiliary) and the grade will not be included in the degree GPA which appears on the transcript. However, X course grades may be used in the calculation of the GPA for continuation in the program and a minimum grade requirement may be required for X coursework by the unit. (Please consult the individual unit’s supplemental regulations.) Additionally, X courses are used in the calculation of the GPA for the purposes of Admission and Awards. (The University of Manitoba Graduate Fellowship (UMGF) and International Graduate Student Scholarship (IGSS) use X courses in the calculation of the GPA.) The student’s advisor and unit Head must determine if there is a valid need for the registration in courses under the X classification. A maximum of 12 credit hours under the X course classification is permitted while registered in a given program.

"A" Audit course: Course is not taken for credit. No grade is recorded.

"O" Occasional course: Course is not a requirement of the program.

**Note:** Changes in course classifications are regarded as course/program changes and may not be made without approval (refer to the “Registration Revision” section of this Guide) or after the deadline dates for course changes as indicated in the Academic Schedule of the Calendar.

1.3.2 Continuing Courses (CO)

For those graduate level courses (6000, 7000, and 8000) which are being taken by students enrolled in the Faculty of Graduate Studies and which continue beyond the normal academic term, the instructor shall recommend that a mark classification of “CO” be used until such time as a final grade can be established. If the course is not completed by August 31, the student must re-register for the course(s).

In the absence of an assigned mark of “CO”, the student may receive a mark of “F” in that term.

**Note:** A CO will normally not be permitted longer than twelve months. In exceptional circumstances, where a CO grade is requested for a second twelve months, at the time the CO grade is submitted, the instructor and unit Head must also submit the “Recommendation for Continuing Status of a Course” form stating the reason for the CO and the deadline by which the course must be completed.

1.3.3 Incomplete Courses

Students who are unable to complete the term work prescribed in a course may apply to the instructor prior to the end of term for consideration of a grade classification of “Incomplete”. It is

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**Note:**
Blue-shaded boxes must be filled in. Yellow-shaded boxes must be filled in if a unit offers that specific program route (i.e. Comprehensive Examination route)

*Biomedical Engineering supplemental regulations approved by FGS Feb. 5, 2015*
understood that the student is to write the final examination if one is scheduled for the course.

Taking into account the results of the final examination, the value of the term work completed, and the extent of the incomplete term work, the instructor shall calculate the temporary grade using a zero value for incomplete work.

Normally, the following maximum extensions are allowed:

- August 1st for courses terminated in April
- December 1st for courses terminated in August
- April 1st for courses terminated in December

If a final grade is not reported within one month of the extension deadline, the Incomplete (I) classification will be dropped and the grade will remain as awarded. The student will no longer have an opportunity to improve the grade. In no case will the satisfaction of the incomplete requirements result in a lower grade being awarded.

1.4 Student Status/Categories of Students

1.4.1 Full-Time And Part-Time Students

Graduate students who are participating in studies on a regular basis in an academic term and/or are registered in the academic year are considered to be full-time students. Graduate student status is not determined by the number of credit hours taken per term. Therefore, such students who spend much of the time in a laboratory or library engaged in research or writing a thesis/practicum, or who spend part of the academic year engaged in research elsewhere, are regarded as full-time students.

Student status should be determined by the student and advisor/co-advisor, and changes must be requested on the "Change of Status" form (http://umanitoba.ca/faculties/graduate_studies/forms/index.html). The form must be approved by the unit Head and submitted to the Faculty of Graduate Studies.

Declaration of full/part time status must be made prior to the end of the registration revision period in the Fall and/or Winter terms and within one month of the start of the Summer term.

For every full year (twelve months) a student is declared as part time they will receive an additional four months in time. For every two years (24 months) a student is declared as part time they will receive an additional year (12 months) in time. Retroactive status changes will not be made.

1.4.2 Pre-Master’s Or Qualifying Students

In specific cases where the academic background of the student is judged to be insufficient for the given program in a unit, the unit may recommend that the student be admitted to a pre-Master’s program of study. The pre-Master’s program is intended to bring the student’s standing to approximately the level of an Honours graduate in the major unit, and to provide any necessary prerequisites for courses.

1.4.3 Occasional Students

A student wishing to take graduate courses with no intention of applying them toward an advanced degree at the University of Manitoba is classified as an occasional student. Occasional students must meet the same degree and grade point average entrance requirements as regular graduate students and must write final examinations in the courses taken (unless audited), but will not receive credit toward a degree. In special circumstances, an occasional student may

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**Note:**
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*Biomedical Engineering supplemental regulations approved by FGS Feb. 5, 2015*
Blue-shaded boxes must be filled in. Yellow-shaded boxes must be filled in if a unit offers that specific program route (i.e. Comprehensive Examination route)

**Faculty of Graduate Studies Regulation**

<table>
<thead>
<tr>
<th>Topic</th>
<th>Supplemental Regulation</th>
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<tbody>
<tr>
<td>apply for permission to proceed to a degree program and also apply for transfer, for credit, of courses previously taken in the occasional category. <strong>Note:</strong></td>
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<tr>
<td>1. Transfer of courses from the “occasional” category to a degree program is not automatic: request for advance credit must be made within the first year of a degree program.</td>
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<tr>
<td>2. Fees paid by a student while registered as an occasional student are not transferable, at a later date, to a degree program.</td>
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<tr>
<td>3. Registration in the occasional student category can be for no more than one academic year without reapplication.</td>
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<tr>
<td>4. At least 60% of coursework per academic year must be taken at the graduate level while registered as an occasional student.</td>
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<td><strong>1.4.4 Joint Masters (With the University of Winnipeg)</strong></td>
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<td>The University of Manitoba and the University of Winnipeg offer four joint Master’s programs: History, Religion, Public Administration, and Peace and Conflict Studies. The University of Manitoba Faculty of Graduate Studies is responsible for the administration of the joint programs, and students must complete the regular University of Manitoba application and registration forms. Students taking pre-Master’s qualifying work for these programs register at the University where the courses are being taken.</td>
<td></td>
</tr>
<tr>
<td><strong>1.4.5 Visiting Students</strong></td>
<td></td>
</tr>
<tr>
<td>Visiting students are students who are registered at another institution who are taking one or more courses at the University of Manitoba on a Letter of Permission from their home university.</td>
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</tr>
</tbody>
</table>

**SECTION 2: Academic Performance - General**

| **2.1 General Note** | |
| **Students are ultimately responsible for ensuring that they meet all degree and program requirements.** The advisor (and if appropriate co-advisor), advisory committee, and unit must ensure that each student follows the guidelines and meets the program requirements. The Faculty of Graduate Studies performs a final check of program requirements for each student just prior to graduation. Students are cautioned, therefore, to periodically check all regulations with respect to the degree requirements. Failure to meet all the requirements will render a student ineligible to graduate. | |
| Units may make recommendations with respect to the regulations concerning minimum academic performance; however, enforcement of academic regulations rests with the Faculty of Graduate Studies. The following procedures apply to recommendations made by units: | |
| The unit is responsible for informing the Faculty of Graduate Studies when a student’s performance is unsatisfactory in research or coursework and the unit must outline any recommended remedial action(s). | |
| The unit must notify the student of the deficiency and of its recommendation. | |
| If the student fails to satisfy any remedial action recommended, the student may be required to withdraw from the Faculty of Graduate Studies. | |
| **Note:** | |
| When a graduate student is required to withdraw from a program of study, the notation on the academic record will be: “Required to withdraw”. Voluntary withdrawal from a program is only |
### 2.2 Academic Performance

Student progress shall be reported at least annually to the Faculty of Graduate Studies on the “Progress Report” form (http://umanitoba.ca/faculties/graduate_studies/forms/index.html).

Students who fail to maintain satisfactory performance may be required to withdraw on the recommendation of the Graduate Chair/unit Head to the Dean of the Faculty of Graduate Studies on the “Progress Report” form. Two consecutive “in need of improvements” normally requires the student to withdraw.

### 2.3 Performance in Coursework

A minimum degree grade point average (GPA) of 3.0 with no grade below C+ must be maintained to continue in the Faculty of Graduate Studies. Units may specify, in their supplementary regulations, standards that are higher than those of the Faculty of Graduate Studies. Students who fail to maintain the specified grades will be required to withdraw unless a unit recommends remedial action. Any such action must be approved by the Dean of the Faculty of Graduate Studies.

A student may be permitted to remove deficiencies in grades by repeating the course or replacing it with an equivalent substitute course. Each failed course may be repeated or replaced only once, to a maximum of 6 credit hours of coursework. If a course is repeated or replaced, the most recent grade obtained will be used in the determination of the degree grade point average.

In exceptional circumstances, the unit may appeal to the Faculty of Graduate Studies for approval of remedial recommendation(s) falling outside those prescribed above.

Supplemental exams are not permitted to students in the Master's or Ph.D. program, unless otherwise stated in the unit's supplemental regulations.

All actions taken administratively are to be reported, in summary form, to the Faculty of Graduate Studies Executive Committee.

### SECTION 3: General Regulations: Pre-Master's

#### 3.1 Admission and Program Requirements

Graduates of bachelor degree programs with a minimum grade point average (GPA) of 3.0 in the last two full years of university study will be considered for admission to a pre-Master’s program. These are the minimum requirements of the Faculty of Graduate Studies. Units may specify higher or additional criteria. Admission to a pre-Master’s program does not guarantee future admission to a Master’s program. As the pre-Master’s program of study is intended to bring a student’s background up to the equivalent of the required 4-year degree, units should assign to students, as part of their pre-Master’s program of study, an appropriate number of applicable upper level (3000 or 4000) undergraduate courses. Courses at the 7000 level or above cannot be taken in a pre-Master’s program. Courses taken as part of the pre-Master’s program may not be transferred to a Master’s program at a later date.

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**Note:**

Blue-shaded boxes must be filled in. Yellow-shaded boxes must be filled in if a unit offers that specific program route (i.e. Comprehensive Examination route)

*Biomedical Engineering supplemental regulations approved by FGS Feb. 5, 2015*
### 3.2 Academic Performance

<table>
<thead>
<tr>
<th>3.2.1. The unit Head is responsible for assigning the courses and monitoring the progress of each student.</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.2.2. A minimum degree grade point average of 3.0 with no grade below C+ must be maintained to continue in a pre-Master’s program. Students who fail to maintain this standing will be required to withdraw unless remedial action recommended by the unit (as described below) is approved by the Dean of the Faculty of Graduate Studies.</td>
</tr>
<tr>
<td>3.2.3. Students deficient in 6 hours of credit or less may be permitted to write a supplemental examination (when offered in the unit’s supplemental regulations) in courses in which a grade of C or less was obtained.</td>
</tr>
<tr>
<td>3.2.4. Students deficient in 6 hours of credit or less with a grade of C, D, or F in a course or courses may be permitted, if the overall average is C or better, to write one supplemental examination in each course (when offered in the unit’s supplemental regulations), to repeat the courses, or to take equivalent substitute courses.</td>
</tr>
</tbody>
</table>

**Note:** In exceptional circumstances, when a student is deficient in more than 6 credit hours, the student may be permitted to repeat the pre-Master’s year, or to write supplemental examinations (when offered), or to substitute equivalent coursework in order to make up the deficiencies.

A student may be permitted to repeat the pre-Master’s year only once, and to remove deficiencies in grades by writing a supplemental examination or repeating courses only once for each course to a maximum of 9 credit hours of coursework.

If a course is repeated or a supplemental examination is written, the most recent grade obtained in that course will be used in the determination of the degree GPA.

The degree GPA is cumulative in a pre-Master’s program if more than one year is required to complete the course requirements.

All action taken administratively is to be reported in summary form to the Faculty of Graduate Studies Executive Committee.

### SECTION 4: General Regulations: Master’s

#### 4.1 General

Although general regulations apply to all students, individual units may have additional regulations that supplement these general regulations. All such supplemental regulations must be approved (as specified by the By-Laws of the Faculty of Graduate Studies), be published and available to students (http://umanitoba.ca/faculties/graduate_studies/admin/supplemental_regulations.html), and be kept on record in the Faculty of Graduate Studies. All students should consult unit supplemental regulations for specific details regarding admission, progression and completion. Individual units may offer Master’s programs by one or more of the following programs:

- Thesis/practicum-based;
- Course-based/comprehensive;
- Accredited professional.

#### 4.2 Diploma Programs

The regulations for the Master’s program shall also prevail for diploma programs. All students...
### Faculty of Graduate Studies Regulation

<table>
<thead>
<tr>
<th>Supplemental Regulation</th>
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should consult the unit supplemental regulations regarding diploma programs.

#### 4.3.1 General Criteria

Students who are eligible to be considered for direct admission to a program of study leading to the Master’s degree include:

- Graduates of four-year undergraduate degree programs (or equivalent as deemed by the Faculty of Graduate Studies) from:
  - Canadian institutions empowered by law to grant degrees; or
  - Colleges and universities outside Canada which are officially recognized by the Faculty of Graduate Studies.

- Graduates from first-cycle Bologna compliant degrees.

- Students who have completed the pre-Master’s program from:
  - the University of Manitoba; or
  - Canadian institutions empowered by law to grant degrees; or
  - Colleges and universities outside Canada which are officially recognized by the Faculty of Graduate Studies.

All students applying for a Master’s degree program must have attained a minimum GPA of 3.0 in the last two full years (60 credit hours) of study. This includes those applying for direct admission and those entering from a pre-Master’s program. Students who meet the minimum requirements for admission to the Faculty of Graduate Studies are not guaranteed admission.

#### 4.3.2 Pre-Master’s Programs

In specific cases where the academic background of the student is judged to be insufficient for the given program in a unit, the unit may recommend that the student be admitted to a pre-Master’s program of study (Section 3).

The pre-Master’s program of study is intended to bring a student's background up to the equivalent of the required 4-year degree in the major unit, and to provide the student with any necessary prerequisites for courses to be taken in the Master’s program.

#### 4.4 Program Requirements

In general, students must complete one of the programs of study described below for the Master’s degree. However, the program of study is determined by the unit and may follow the unit’s supplemental regulations. Any single course cannot be used for credit toward more than one program.

##### 4.4.1 Thesis/Practicum Route

A minimum of 12 credit hours of coursework, unless otherwise stated in the unit’s supplemental regulations, plus a thesis or practicum. The minimum must include at least 6 credit hours at the 7000 level or above, with the balance of the coursework at the 3000 level or above. A minimum of 24 credit hours of coursework is allowed unless the unit’s supplemental regulations indicate otherwise. The student must complete the thesis/practicum at the University of Manitoba.

A minimum of eighteen (18) credit hours plus a thesis are required in the BME program. The minimum must include 5 CH from the following 7 core courses:

1. BME7012
2. BME7014
3. BME7016
4. BME7022
5. BME7024
6. BME7026

**Note:**
Blue-shaded boxes must be filled in. Yellow-shaded boxes must be filled in if a unit offers that specific program route (i.e. Comprehensive Examination route)

*Biomedical Engineering supplemental regulations approved by FGS Feb. 5, 2015*
### 4.4.2 Course-based/Comprehensive Examination Route

A minimum of 24 credit hours of coursework and comprehensive examination(s). The minimum must include at least 18 credit hours at the 7000 level or above with the balance of the coursework at the 3000 level or above. A maximum of 48 credit hours of coursework is allowed unless supplemental regulations indicate otherwise.

### 4.4.3 Accredited Professional Route

The credit hours and course requirements shall reflect the requirements of the external accrediting body.

### 4.4.4 Language Reading Requirements

Some units specify a language requirement for the Master’s degree. Students should check unit supplemental regulations regarding this requirement.

### 4.4.5 Advanced Credit

Advance credit for courses completed prior to admission to a Master’s program will be considered on an individual basis. The student’s unit makes the request to the Faculty of Graduate Studies by completing the “Recommendation for Advance Credit (Transfer of Courses)” form (http://umanitoba.ca/faculties/graduate_studies/forms/index.html).

- Application for advance credit must be made within the first year of the program (see Lapse of Credit of Courses in this section).
- No more than half of the required coursework for the program can be given advance credit.
- A course may not be used for credit toward more than one program.
- The student must register at The University of Manitoba for at least two terms within a single academic year as a full-time student and must also complete the thesis at the

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**Note:**
Blue-shaded boxes must be filled in. Yellow-shaded boxes must be filled in if a unit offers that specific program route (i.e. Comprehensive Examination route)

*Biomedical Engineering supplemental regulations approved by FGS Feb. 5, 2015*
Regardless of the extent of advanced credit received, all students are required to pay applicable program fees.

### 4.4.6 Transfer Credit

Courses within a program of study may be taken elsewhere and transferred for credit at The University of Manitoba. All such courses:

- must be approved for transfer to the program of study by the unit and the Faculty of Graduate Studies before the student may register for them;
- are considered on an individual basis;
- cannot be used for credit towards another degree;
- may be taken at other universities while registered in a program at The University of Manitoba, provided that the credit does not exceed 50% of the minimum credit hours of coursework required.

Permission is granted in the form of a Letter of Permission which may be obtained by making an application to the Registrar’s Office; an original transcript and course equivalency must be provided.

### 4.4.7 Time in Program

The minimum time for students in the Master’s program is equivalent to two terms. Most units require more than this and students should check unit supplemental regulations regarding specific requirements.

The maximum time allowed for the completion of the Master’s degree is four years for students declared as full-time, and six years for students declared as part-time (see section 1.4.1). Some units may have specified maximum time limits and students should periodically check unit supplemental regulations regarding specific requirements.

Requests for extensions of time to complete the degree will be considered on an individual basis and must be submitted to the Dean of the Faculty of Graduate Studies at least three, but no more than four, months prior to expiration of the respective maximum time limit.

A student who has not completed the degree requirements within the time limit or within the time limit of the extension will be required to withdraw from the Faculty of Graduate Studies and the notation on the student record will be “Required to withdraw”.

### 4.5 Student’s Advisor/Co-Advisor

Each student should have an advisor upon entry into the program, and must have one assigned no later than one term following registration. The advisor must:

- hold at least a Master’s degree or equivalent
- be a member of the Faculty of Graduate Studies, and
- have expertise in a discipline related to the student’s program

It is the responsibility of the unit Head to determine whether faculty members meet these criteria, and also to report to the Dean of the Faculty of Graduate Studies on equivalency as necessary. Any exceptions or special circumstances must be recommended by the unit Head and approved by the Dean of the Faculty of Graduate Studies who considers each case on an individual basis.

In units where the choice of thesis/practicum topic and thesis/practicum advisor are postponed,

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**Note:**

- Blue-shaded boxes must be filled in.
- Yellow-shaded boxes must be filled in if a unit offers that specific program route (i.e., Comprehensive Examination route)

*Biomedical Engineering supplemental regulations approved by FGS Feb. 5, 2015*
after a student’s entry into the program, the unit Head, within one term, shall appoint a faculty member to advise the student in the interim period before the regular advisor is assigned or chosen.

In special circumstances, an advisor and co-advisor, upon approval of the unit Head may advise a student. The co-advisor must meet all of the same qualifications and expectations as the advisor. Together the advisor/co-advisor shall fulfill the role of advisor. When an advisor and co-advisor are assigned, together they shall fulfill the role of the advisor (that is, neither shall fulfill any other advisory or examining committee membership requirements for that student). One advisor must be identified as the primary advisor; however, both co-advisors’ signatures are required on all documents where the advisor’s signature is required.

The advisor/co-advisor will advise the student on a program of study, direct research, and supervise the thesis or practicum work.

The advisor and student must discuss, and complete, the Faculty of Graduate Studies Advisor Student Guidelines (ASG) prior to the commencement of any research and no later than the submission of the first Progress Report for the student. The advisor and the student are required to sign the agreement; if the parties cannot agree on any component(s) of the ASG, the matter should be referred to the unit Graduate Chair, Head of the unit or the Dean of the Faculty of Graduate Studies.

Should, during the student’s program, the relationship between the student and advisor significantly deteriorate, the matter should be referred to the unit Graduate Chair, the Head of the unit or the Dean of the Faculty of Graduate Studies.

All students should consult unit supplemental regulations for specific details regarding advisor/co-advisor requirements.

4.6 Advisory Committee

4.6.1 Thesis/Practicum Route

Advisory committees are normally selected by the advisor in consultation with the student and should consist of individuals whose expertise is consistent with that necessary to provide additional advice to the student during his/her research program. The advisory committee must consist of a minimum of three members (including the advisor/co-advisor), two of whom must be members of the Faculty of Graduate Studies, one of whom must hold a primary appointment from within the unit and one of whom must hold no appointment within the unit. Advisory committees may include one non-voting guest member who has expertise in a related discipline but is not a member of the Faculty of Graduate Studies. The composition of, and any changes to, the advisory committee, including the advisor/co-advisor, must be approved by the Faculty of Graduate Studies. The advisor/co-advisor is the Chair of the advisory committee.

Additional specifications regarding the advisory committee are found in the unit supplemental regulations and students should consult these regulations for specific requirements.

4.6.2 Course-based/Comprehensive Examination Route

Normally, advisory committees are not required in these routes, however any appropriate specifications regarding an advisory committee can be found in the unit’s supplemental regulations and students should consult these regulations for specific requirements.

4.6.3 Accredited professional programs

Normally, advisory committees are not required in these routes, however any appropriate specifications regarding an advisory committee can be found in the unit’s supplemental regulations and students should consult these regulations for specific requirements.
Faculty of Graduate Studies Regulation | Supplemental Regulation
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regulations and students should consult these regulations for specific requirements. | Studies. If there is evidence of unsatisfactory performance, the student may be required to withdraw by FGS.

### 4.7 Courses and Performance

#### 4.7.1 Course or Program Changes

Students are not permitted to change their program of study, including withdrawal from individual courses, without the approval of their advisor/co-advisor (and/or advisory committee) and unit Head. Withdrawal from courses or changes of course category without such approval will result in the student being required to withdraw from the Faculty of Graduate Studies.

#### 4.7.2 Lapse of Credit of Courses

Courses completed more than seven years prior to the date of awarding of a degree may not normally be used for credit toward that degree.

#### 4.7.3 Academic Performance

Student progress shall be reported at least annually to the Faculty of Graduate Studies on the “Progress Report” form (http://umanitoba.ca/faculties/graduate_studies/forms/index.html). Students who fail to maintain satisfactory performance may be required to withdraw on the recommendation of the Graduate Chair/unit Head to the Dean of the Faculty of Graduate Studies on the “Progress Report” form. Two consecutive “in need of improvements” normally requires the student to withdraw.

#### 4.7.4 Performance in Coursework

A minimum degree grade point average (GPA) of 3.0 with no grade below C+ must be maintained to continue in the Faculty of Graduate Studies. Units may specify, in their supplementary regulations, standards that are higher than those of the Faculty of Graduate Studies. Students who fail to maintain the specified grades will be required to withdraw unless a unit recommends remedial action. Any such action must be approved by the Dean of the Faculty of Graduate Studies.

#### 4.7.5 Performance not related to Coursework

In some units, students are required to demonstrate satisfactory academic performance in areas not related to performance in courses, such as attendance at or participation in course lectures, seminars and in laboratories and progress in research, thesis or practicum. The specific nature of satisfactory academic performance is outlined in individual unit supplemental regulations and students should consult these supplemental regulations for specific requirements. Unacceptable performance must be reported to the Faculty of Graduate Studies on the “Progress Report Form” (http://umanitoba.ca/faculties/graduate_studies/forms/index.html). Students who fail to maintain satisfactory performance may be required to withdraw on the recommendation of the unit Head to the Dean of the Faculty of Graduate Studies.

### 4.8 Requirements for Graduation

All students must:

- maintain a minimum degree grade point average of 3.0 with no grade below C+,
- meet the minimum and not exceed the maximum course requirements, and
- meet the minimum and not exceed the maximum time requirements.

Individual units may have additional specific requirements for graduation and students should consult unit supplemental regulations for these specific requirements.

#### 4.8.1 Thesis/Practicum Route

The thesis proposal for students in the M.Sc. program

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**Note:**
Blue-shaded boxes must be filled in. Yellow-shaded boxes must be filled in if a unit offers that specific program route (i.e. Comprehensive Examination route)

*Biomedical Engineering supplemental regulations approved by FGS Feb. 5, 2015*
### 4.8.1.1 Thesis vs. Practicum

Students must demonstrate their mastery of the field and that they are fully conversant with the relevant literature through their thesis/practicum.

A practicum differs from the thesis in its emphasis on the application of theory. It is however similar in scope, span, and rigour. The rigour required for the practicum is equal to that required for the thesis. The practicum takes the form of an exercise in the practical application of knowledge and skill. It usually involves the careful definition of a problem, the application of appropriate knowledge and skills to the problem, and a report of the results in a manner suitable for evaluation by an examining committee. Individual units have specific requirements for graduation and students should consult unit supplemental regulations for specific requirements.

The thesis is developed under the mentorship of the advisor/co-advisor. Individual units may have specific guidelines regarding the thesis proposal and its acceptance by the student's advisory committee/unit Head; students should consult unit supplemental regulations for specific requirements. Research must be approved by the appropriate Human Research Ethics Board or Animal Care Committee, if applicable, before the work has begun on the thesis research.

The written proposal is intended to develop the rationale for the study, the hypothesis, and the approach. There should be enough detail to evaluate the validity of the approach, the feasibility, and the timeline for research. The written proposal should be developed by the student. The proposal should be 2-3 pages in length (excluding reference list, figures, tables, and appendices).

The advisor will assess the thesis proposal and if in agreement will endorse the proposal. If the proposal is not approved, the student will have 1 month to resubmit a revised proposal for approval. Once the proposal is endorsed by the advisor, it will be forwarded to the Chair of the Admissions Committee for approval. An oral presentation is not required.

### 4.8.1.2 Examining Committee

The advisor will recommend an examining committee to the unit Head for approval, which shall then be reported to the Faculty of Graduate Studies on the "Master's Thesis/Practicum Title and Appointment of Examiners" form (http://umanitoba.ca/faculties/graduate_studies/forms/index.html). This form must be approved by the Dean of the Faculty of Graduate Studies prior to the distribution of the thesis.

Under normal circumstances, the examining committee will be the same as the advisory committee unless otherwise stipulated in the unit's Supplemental regulations. The examining committee must consist of a minimum of three members (including the advisor), two of whom must be members of the Faculty of Graduate Studies, one of whom must hold a primary appointment from within the unit and one of whom must hold no appointment within the unit. All examiners must be deemed qualified by the unit Head and be willing to serve. The composition of, and any changes to, the examining committee, including the advisor/co-advisor, must be approved by the Faculty of Graduate Studies. Individual units require specific requirements for examination and students should consult unit supplemental regulations for specific requirements.

The Head of the unit arranges for the distribution of the thesis/practicum to the examiners. It is the duty of all examiners to read the thesis/practicum and report on its merits according to the following categories:

- Acceptable, without modification or with minor revision(s); or
- Acceptable, subject to modification and/or revision(s); or
- Not acceptable.

### 4.8.1.3 Oral Examination

For units requiring students to pass an oral examination on the subject of the thesis/practicum and matters relating thereto, the format of the oral examination is described in the supplementary regulations of the unit. Students should consult these supplemental regulations for specific requirements. A student has the right to an examination of the thesis/practicum if he/she believes it is ready for examination. It is the unit's responsibility to warn the student of any risk involved should he/she decide to proceed against the unit's recommendation.

An oral defense of the thesis is required for all students registering in the M.Sc. program. The oral examination is open to faculty, research associates, postdoctoral fellows and graduate and undergraduate students. The first part of the oral examination consists of a presentation by the candidate covering the salient points of the thesis work and normally is limited to approximately 30 minutes. This presentation is followed by a question and answer session. The examiners normally require the candidate to present a written report of the results in a manner suitable for evaluation by an examining committee. Individual units have specific requirements for the oral examination and students should consult unit supplemental regulations for specific requirements.

**Note:**

Blue-shaded boxes must be filled in. Yellow-shaded boxes must be filled in if a unit offers that specific program route (i.e. Comprehensive Examination route)

Biomedical Engineering supplemental regulations approved by FGS Feb. 5, 2015
All members of the examining committee must be present at the examination.

The oral examination shall be open to all members of The University of Manitoba community except in exceptional cases. The oral examination may be closed, for example, when the results of the thesis/practicum research must be kept confidential for a period of time. In such cases, the examining committee and unit Head shall recommend such action to the Dean of the Faculty of Graduate Studies who shall then approve that the final examination be closed to all but the examining committee and the Dean of the Faculty of Graduate Studies.

Following completion of the examination of the thesis/practicum, examiners will consider the oral examination and the written thesis/practicum.

The examiners will also determine the nature of and procedures for approval of any revisions that will be required prior to submission of the thesis to the Faculty of Graduate Studies. The advisor is normally responsible for ensuring that revisions are completed according to the instructions from the examining committee.

The judgement of the examiners shall be reported to the Faculty of Graduate Studies in the qualitative terms “approved” or “not approved” on the thesis/practicum final report form (http://umanitoba.ca/faculties/graduate_studies/forms/index.html). Each examiner must indicate his/her opinion by his/her signature. If two or more examiners do not approve the thesis, then the student is deemed to have failed the defence.

The examining committee may recommend to the Faculty of Graduate Studies that the thesis is of sufficient merit to receive an award.

4.8.1.4 Failure

In the case of a failure of the thesis/practicum at the Master’s level, a detailed written report will be prepared by the Chair of the examination committee and submitted to the Faculty of Graduate Studies, who will make the report available to the student and advisor/co-advisor.

A student will be required to withdraw when the thesis/practicum has been rejected twice at the stage where:

- The examining committee reports on the merits of the written thesis;
- The defence; or
- A combination of both stages.

The examining process should be completed within one month of distribution of the thesis/practicum.

4.8.2 Course-based/Comprehensive Examination Route

Students must demonstrate his/her mastery of their field. The specific procedures for evaluation of this mastery are stated in individual units’ supplemental regulations. Students should consult unit supplemental regulations for specific requirements.

In those units where comprehensive examinations are required, students should consult unit supplemental regulations for specific requirements. The results of the comprehensive examinations shall be submitted to the Faculty of Graduate Studies on the Report on Comprehensive Examination form (http://umanitoba.ca/faculties/graduate_studies/forms/index.html) in the terms “pass” or “fail.” No student may sit comprehensive examinations more than twice. Any student who receives a “fail” on the comprehensive examination twice will be required to withdraw from the Faculty of Graduate Studies.

4.9 Style and Format

Note:
Blue-shaded boxes must be filled in. Yellow-shaded boxes must be filled in if a unit offers that specific program route (i.e. Comprehensive Examination route)

Biomedical Engineering supplemental regulations approved by FGS Feb. 5, 2015
### 4.10 Deadlines for Graduation

The final requirements of the degree, in the form of the final report on the thesis/practicum (and the corrected copies of the thesis/practicum); comprehensive examination; or M. Eng. project, design thesis, must be submitted to the Faculty of Graduate Studies by the appropriate deadline. For those programs that do not have a culminating exercise (thesis/practicum/comprehensive examination/M. Eng. project/Design thesis) the unit must forward potential graduate names to the Faculty of Graduate Studies by the deadline. The deadline for each of the graduation dates is published in the Academic Schedule of the Academic Graduate Calendar.

### 4.11 Details for Submissions of Final Copies

Following the approval of the thesis/practicum by the examining committee and the completion of any revisions required by that committee, the thesis/practicum, must be submitted to the Faculty of Graduate Studies as follows:

- One digital version submitted as an e-thesis/practicum at the MSpace website ([https://mspace.lib.umanitoba.ca/index.jsp](https://mspace.lib.umanitoba.ca/index.jsp))
- One hard copy submitted to the Faculty of Graduate Studies. This is required for the University Library and remains the property of the University of Manitoba.

Final approval and release forms.

### 4.12 Publication and Circulation of Thesis/Practicum

Every graduate student registering in a thesis/practicum Master’s program at The University of Manitoba shall be advised that, as a condition of being awarded the degree, he/she will be required to grant a license of partial copyright to the University and to the Library and Archives Canada for any thesis or practicum submitted as part of their degree program.

**Note:** This license makes the thesis/practicum available for further research only. Publication for commercial purposes remains the sole right of the author.

The forms and conditions pertaining to these license agreements are available in the Faculty of Graduate Studies office. This and other related regulations may give rise to important questions of law, and students may need additional legal advice on the copyright laws of Canada and/or other countries. Students who wish to obtain legal advice concerning their subsequent rights are advised to do so prior to signing the agreements. Signing of the license agreements is normally done after the contents of the thesis/practicum have been delineated and the importance of copyright and/or patents fully comprehended.

Publication in the above manner does not preclude further publication of the thesis or practicum report or any part of it in a journal or in a book. In such cases, an acknowledgement that the work was originally part of a thesis/practicum at The University of Manitoba should be included.

**Notes:**

- **Patents** – Refer to the section “Policy of Withholding Theses Pending Patent Applications” in this Guide.

- **Restriction of Theses/Practica for Publication** – In exceptional cases, not covered by the regulation concerning patents, where adequate cause can be shown to delay publication, the student and advisor, may request in writing that the Dean of the Faculty of Graduate Studies...
restrict access, for a period up to one year after submission, of the digital and unbound paper
versions of a thesis or practicum submitted to The University of Manitoba. The Dean shall
determine for what period, if any, access will be so restricted.

Library and Archives Canada – A copy of the thesis is forwarded to the Library and Archives
Canada.

SECTION 5: Doctor of Philosophy General Regulations

The degree of Doctor of Philosophy (Ph.D.) is granted only upon evidence of general proficiency
and of distinctive attainment in a special field. In particular, the candidate must demonstrate an
ability for independent investigation, original research or creative scholarship. This is expected to
be presented in a thesis with a degree of literary skill and by an oral examination wherein the
candidate exhibits mastery of their field. The Ph.D. is a research degree and is not conferred by
the University of Manitoba solely as a result of coursework study.

Although general regulations apply to all students, individual units may have additional
regulations that supplement these general regulations. All such supplemental regulations must
be approved (as specified by the By-Laws of the Faculty of Graduate Studies), be published and
available to students (http://umanitoba.ca/faculties/graduate_studies/admin/supplemental_regulations.html), and be
kept on record in the Faculty of Graduate Studies. All students should consult unit supplemental
regulations for specific details regarding admission, progression and completion.

5.1 Admission

5.1.1 General criteria

Normally, the completion of a Master's degree or equivalent from a recognized university and a
cumulative GPA of 3.0 or equivalent in the last two previous years of full time university study (60
credit hours) is the minimum requirement for admission to the Ph.D. program. However, the
criteria for admissions into the Ph.D. program are more stringent than for Masters' programs;
therefore, the completion of a Master’s program does not guarantee admission into the Ph.D.
program. Some units require completion of a thesis-based Master's program prior to admission
into a Ph.D. program.

5.1.2 Direct Admission from the Bachelor’s Honours or equivalent

With special recommendation of the unit concerned, applicants with an honours Bachelor’s
degree or equivalent may be considered for entry to Ph.D. study. These students must be
outstanding in their academic background (GPA well above 3.0 in the last two full years of
undergraduate study). Once admitted, these students must complete at least 24 credit hours of
coursework, unless the individual unit’s approved supplemental regulations specify otherwise, and
will be assessed Ph.D. fees for 3 years.

5.1.3 Transfer from the Master’s to the Ph.D. program

Students who have not completed a Master’s program may transfer to the Ph.D. program within
the same unit upon the recommendation by the Head of the unit to the Faculty of Graduate
Studies. The recommendation should be made within 18 months of the student’s
commencement of the Master’s program. The coursework completed and time spent in the
Master’s program will normally be credited towards the Ph.D. program. Students must complete
at least 24 credit hours of coursework, unless the individual unit’s approved Supplemental
regulations specify otherwise.

The request to transfer from a Master’s to the Ph.D. program must be submitted to the Faculty of
Graduate Studies at least one month prior to the term for which the student intends to commence
the Ph.D. program. The following are required when making the request: The “Application for
Admission” form (and application fee); “Ph.D. Selection Committee Report” form
(http://umanitoba.ca/faculties/graduate_studies/media/cte_selection_report.pdf); and in the case
where the student does not hold a Master’s degree, a letter of recommendation from the Head of

Note:
Blue-shaded boxes must be filled in. Yellow-shaded boxes must be filled in if a unit offers that specific program
route (i.e. Comprehensive Examination route)

Biomedical Engineering supplemental regulations approved by FGS Feb. 5, 2015
the unit.

If the transfer occurs within 12 months of the initial registration in the Master’s program, the student will be assessed Ph.D. fees for 3 years. If the transfer occurs after 12 months, the student will be assessed Ph.D. program fees for 2 years (as they will have already paid fees for the Master’s program). Students are cautioned that such transfers may impact on the University of Manitoba Graduate Fellowship duration.

Where a student with a Master’s degree or equivalent is initially admitted and registered in a Master’s program, that student may be transferred to the Ph.D. program within the same unit on the recommendation of the student’s advisor/co-advisor and Head of the unit, provided that follow up transfer recommendation occurs within 12 months of the initial registration in the Master’s program. In such a case, the application fee is waived and fees assessed towards the Master’s program will be deducted from the full 2 years of Ph.D. program fees. Transfers later than 12 months must pay an application fee and their fees will be assessed as a 3 year Ph.D.

### 5.1.4 Provisional Admission to the Ph.D.

Students nearing the completion of the Master’s degree may be accepted provisionally to the Ph.D. program for a 12 month period (commencing with the first registration in the Ph.D. program). Further registration in the Ph.D. program is contingent upon completion of all requirements of the Master’s degree within the 12 months. Students must maintain continuous registration in their Master’s program until its completion. Students will require assistance from the unit and the Faculty of Graduate Studies to complete dual registration in the Master’s and Ph.D. program simultaneously.

### 5.1.5 English Language Proficiency

Applicants whose first language is not English and who have not resided in a designated English-speaking country for three years immediately prior to application must provide proof of English language proficiency. Normally, this is done by providing results directly to the Faculty of Graduate Studies from one of the following recognised English language competency tests:

- MELAB – Minimum Final score of 80
- TOEFL – Minimum iBT score of 80, or a minimum PBT 550
- canTEST – Minimum band of 4.5 in Listening and Reading, and a band of 4.0 in Writing
- IELTS – Minimum score of 6.5 on the Academic Module
- CAEL – Minimum 60 overall and 60 on each subject
- AEPUCE – Minimum 65% overall.

The language competency test may be waived if the applicant has completed a degree at a recognised University where the language of instruction is English. Some units specify an additional language requirement for the Ph.D. degree. Students should check unit supplemental regulations regarding this requirement.

In all cases, test scores older than two years are invalid.

### 5.1.6 Students with Disabilities

See Accommodation Policy for Students with Disabilities:

[http://umanitoba.ca/admin/governance/governing_documents/students/281.html](http://umanitoba.ca/admin/governance/governing_documents/students/281.html)

### 5.2 Student Advisor, Co-advisor and Advisory Committee

#### 5.2.1 Student Advisor

Every Ph.D. student must have an advisor, appointed by the Head of the unit. The advisor is

Note:
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Biomedical Engineering supplemental regulations approved by FGS Feb. 5, 2015
The advisor must:

- be a member of the Faculty of Graduate Studies,
- hold a Ph.D. or equivalent)*,
- be active in research, and
- have expertise in a discipline related to the student’s program.

*Equivalency will be approved by the Dean of the Faculty of Graduate Studies and determined on a case by case basis and assessed by the potential advisor’s demonstrated research record and current research activities. Note that M.D., D.M.D. and J.D. are undergraduate degrees and are not considered per se to be equivalent to a Ph.D.

Usually the student and the advisor choose to work together by mutual agreement. In units where the choice of thesis topic advisor is postponed for some time after entry into the program, the Head of the unit or the selection committee shall appoint a faculty member to advise the student as to the rules and regulations and on a program and course requirements. This interim period must not exceed eighteen months after entry in to the program before a permanent advisor is chosen.

The advisor and student must discuss, and complete, the Faculty of Graduate Studies Advisor Student Guidelines (ASG) prior to the commencement of any research and no later than the submission of the first Progress Report for the student. The advisor and the student are required to sign the agreement; if the parties cannot agree on any component(s) of the ASG, the matter should be referred to the unit Graduate Chair, the Head of the unit or the Dean of the Faculty of Graduate Studies.

Should, during the student’s program, the relationship between the student and advisor significantly deteriorate, the matter should be referred to the unit Graduate Chair, the Head of the unit or to the Dean of the Faculty of Graduate Studies.

5.2.2 Co-advisor

In special circumstances, upon approval of the Head of the unit, an advisor and co-advisor may advise a student.

The co-advisor must:

- be a member of the Faculty of Graduate Studies
- hold a Ph.D. or equivalent*, and
- be active in research.

*Equivalency will be approved by the Dean of the Faculty of Graduate Studies, determined on a case by case basis and assessed by the potential co-advisor’s demonstrated research record.
and current research activities. Note that M.D., D.M.D. and J.D. are undergraduate degrees and are not considered *per se* to be equivalent to a Ph.D.

The co-advisor will usually be identified either:

A) at the beginning of a student’s program in situations where:

1. the student desires to draw equally upon the expertise of two individuals, or

2. the project is interdisciplinary in nature and requires the expertise of two advisors from their respective disciplines, or

B) mid-way through a student’s program due to:

1. the student’s project developing in such a way as he/she requiring an additional advisor from a different discipline, or

2. the unit introducing a new Faculty member, to the standards of the unit, whose expertise facilitates the student’s project.

When an advisor and co-advisor are assigned, together they shall fulfill the role of the advisor (that is, neither shall fulfill any other advisory or examining committee membership requirements for that student). One advisor must be identified as the primary advisor; however, both the advisor and co-advisor’s signatures are required on all documents where the advisor’s signature is required.

In all instances the Faculty of Graduate Studies must be informed of the co-assignment.

### 5.2.3 Advisory Committee

The Head of the unit is responsible for the establishment of an advisory committee for each Ph.D. student. Advisory committees are normally selected by the advisor/co-advisor in consultation with the student and should consist of individuals whose expertise is consistent with that necessary to provide additional advice to the student during his/her program. The advisory committee must consist of a minimum of three members of the Faculty of Graduate Studies, one of whom must hold a primary appointment from within the unit and one of whom must hold no appointment within the unit. Advisory committees may include one non-voting guest member who has expertise in a related discipline but is not a member of the Faculty of Graduate Studies. The composition of, and any changes to, the advisory committee, including the advisor/co-advisor, must be approved by the Faculty of Graduate Studies. The advisor/co-advisor is the Chair of the advisory committee. Advisory committee meetings which must be held at least annually are not intended to take the place of meetings between the student and advisor, which should occur with much greater frequency than the advisory committee meetings.

The advisor (who must be a member of the BME program) must establish an advisory committee for the student within 12 months of the student’s registration in the BME program and within 6 months if the student has transferred from an M.Sc. program.

The Advisory committee must consist of the advisor plus a minimum of two additional members who are academic members of the FGS. At least two members of the advisory committee must be members of the BME program and at least one member of the committee must be from the Faculty of Engineering. At least 2 different home departments must be represented on the committee. When the advisor holds a faculty position (this may be a nil-salaried position but not an adjunct position) in a department with a graduate program a co-advisor is not required. However, given the multi-disciplinary nature of the program, the inclusion of a co-advisor is strongly recommended. If the advisor is an adjunct member of the BME program, a co-advisor who is both a member of the FGS and a Core BME member is required. The co-advisor is extra to the minimum number of the advisory committee as described above. All members should be deemed qualified by the Program Director and be willing to serve. Responsibilities of the committee are to approve the program of study and thesis proposal and to exercise general supervision over the student’s work throughout the Ph.D. program. The committee should meet with the student periodically (and must meet with the student at least once a year) to review the student’s progress and to report this progress.
5.3 Program of Study

As soon as possible, but no later than 24 months after a student has commenced their program, the student's program of study should be registered with the Faculty of Graduate Studies and should include:

- information about the minimum or expected time for completion of the degree;
- coursework to be taken;
- any foreign language requirement;
- the research area in which the thesis will be written.

The approval of the student's advisor/co-advisor and the Head of the unit are sufficient for registration. The program of study, including withdrawal from individual courses and any subsequent changes, must be approved by the student's advisor/co-advisor, the advisory committee and the Head of the unit. Withdrawal from courses or changes of course category without such approval may result in the student being required to withdraw from the Faculty of Graduate Studies.

5.4 Program Requirements

All students must complete one of the following programs of study for the Ph.D. degree, unless otherwise specified in the approved unit supplemental regulations:

- Where admission to the Ph.D. is directly from a Master's degree, a minimum of 12 credit hours at the 7000 level or higher plus a thesis is required. Any further coursework beyond the minimum 12 credit hours at the 7000 level must be at the 3000 level or above. For those students who hold a Master's degree, a maximum of 24 credit hours of coursework is allowed toward the Ph.D. program.*
- Where admission to the Ph.D. is directly from an Honours Bachelor degree or equivalent, a minimum of 24 credit hours plus a thesis is required. The coursework must include a minimum of 18 credit hours at the 7000 level or higher with the balance of the coursework at the 3000 level or higher. For those students who do not hold a Master's degree, a maximum of 48 credit hours of coursework is allowed toward the Ph.D. program.*

A minimum of twelve (12) credit hours plus a thesis are required in the BME program. The minimum must include five (5) credit hours from following 7 core courses:

1. BME7012
2. BME7014
3. BME7016
4. BME7022
5. BME7024
6. BME7026
7. BME7028

plus the 1 CH Ethics course (BME7030) and the zero (0) credit hour BME Seminar course (BME7000). The remaining 6 credit hours of the minimum requirement must be taken at the 7000 level relevant to the student’s thesis from any departments of the faculties of Engineering, Science and Health Sciences or Department of Psychology and Pathophysiology based on the suggestions of the student's Advisory Committee.

The student’s program of study must be recommended by the student’s advisory committee and approved by the Chair of the Curriculum Committee.

In case of a student with similar courses as our core courses, the student might be exempted from taking the equivalent core courses and allowed to fulfill the 12 credit hours with other courses.

Students admitted directly from a Doctor of Medicine (MD) Degree are required to pass a minimum of 18 credit hours.

*Unless professional accreditation requirements and/or supplemental regulations indicate otherwise.
### 5.4.1 Language Reading Requirements

Some units specify a language requirement for the Ph.D. degree. Students are advised to check unit Supplemental regulations regarding this requirement.

### 5.4.2 Advance Credit

Advance credit for courses completed prior to admission to a Ph.D. program will be considered on an individual basis. The student's unit makes the request to the Faculty of Graduate Studies by completion of the “Recommendation for Advance Credit (Transfer of Courses)” form.

1. Application for advance credit must be made within the first year of the program (see Lapse of Credit of Courses in this section).

2. No more than half of the required coursework for the program can be given advance credit.

3. A course may not be used for credit toward more than one degree, diploma or certificate.

4. The student must register at The University of Manitoba for one academic year as a full-time student and must also complete the thesis at The University of Manitoba.

5. Regardless of the extent of advanced credit received, all students are required to pay the program fee.

### 5.4.3 Transfer Credit

Courses within a program of study may be taken elsewhere and transferred for credit at The University of Manitoba. All such courses:

1. must be approved for transfer to the program of study by the unit and the Faculty of Graduate Studies before the student may register for them;

2. are considered on an individual basis;

3. cannot be used for credit towards another degree;

4. may be taken at other universities while registered in a program at The University of Manitoba, provided that the credit does not exceed 50% of the minimum credit hours of coursework required.

Permission is granted in the form of a Letter of Permission which may be obtained by making an
application to the Registrar’s Office; an original transcript and course equivalency must be provided.

5.4.4 Lapse of Credit of Courses

Courses completed more than seven years prior to the date of awarding of a degree may not normally be used for credit toward that degree.

5.5 Time Limits

5.5.1 Minimum Time Limit

The minimum time requirement for the program of study for a Ph.D. degree will normally be two years of study beyond the level of the Master’s degree, or three years beyond the level of a Bachelor’s degree. The student may be permitted to spend one of these years in an approved program of research or study elsewhere. Such permission must be approved by the Dean of the Faculty of Graduate Studies on the recommendation of the student’s advisory committee.

5.5.2 Maximum Time Limit

A student’s candidature shall lapse if he/she fails to complete the degree within six years following initial registration in the Ph.D. program. For those students who transfer from the Master’s to the Ph.D., years spent in the Master’s program are counted as years in the Ph.D. program. Recommendations for extensions of time to complete the degree will be considered on an individual basis and must be approved by the Dean of the Faculty of Graduate Studies.

A student who has not completed the degree requirements within the time limit or within the time limit of any extension that has been granted (see also sections “Extension of Time to Complete Program of Study” and “Leave of Absence”) will be required to withdraw from the Faculty of Graduate Studies and the notation on the student record will be “Required to withdraw”.

5.6 Academic Performance

Student progress shall be reported at least annually to the Faculty of Graduate Studies on the “Progress Report” form (http://umanitoba.ca/faculties/graduate_studies/forms/index.html). Students who fail to maintain satisfactory performance may be required to withdraw on the recommendation of the Graduate Chair/unit Head to the Dean of the Faculty of Graduate Studies on the “Progress Report” form. Two consecutive “in need of improvements” normally requires the student to withdraw.

5.6.1 Performance in Coursework

A minimum degree grade point average (GPA) of 3.0 with no grade below C+ must be maintained to continue in the Faculty of Graduate Studies. Units may specify, in their supplementary regulations, standards that are higher than those of the Faculty of Graduate Studies. Students who fail to maintain the specified grades will be required to withdraw unless a unit recommends remedial action. Any such action must be approved by the Dean of the Faculty of Graduate Studies.

5.6.2 Performance Not Related to Coursework

Students may be required to withdraw from their Ph.D. program for reasons of unsatisfactory performance other than those related to failing grades. These include, but are not restricted to, unsatisfactory attendance and lack of progress in research and/or thesis preparation. The student’s advisory committee will make a recommendation for required withdrawal to the Head of the unit. The Head of the unit may then recommend to the Dean of the Faculty of Graduate Studies that the student be required to withdraw for reasons of unsatisfactory academic performance.

5.7 Academic Requirement for Graduation

A cumulative degree grade point average of 3.0 or greater is required in those courses that constitute the program of study for graduation in the Faculty of Graduate Studies.

Note:
Blue-shaded boxes must be filled in. Yellow-shaded boxes must be filled in if a unit offers that specific program route (i.e. Comprehensive Examination route)

Biomedical Engineering supplemental regulations approved by FGS Feb. 5, 2015
5.8 Candidacy Examination

The candidacy examination is an absolute requirement of the Faculty of Graduate Studies and, as such, cannot be waived under any circumstances. However, the format and content of the candidacy exam will vary from unit to unit. The purposes of the candidacy exam in doctoral programs is to determine the student’s competence in the discipline with respect to understanding and absorbing a broad spectrum of material, and then researching, identifying, analysing, synthesizing, and communicating ideas about that material in depth.

At the time specified by the advisory committee--normally within the first year after the completion of the Ph.D. program coursework but in no case later than one year prior to expected graduation--the student must successfully complete the formal candidacy examination.

The examination is conducted according to a procedure established by the unit and approved by the Academic Guide Committee of the Faculty of Graduate Studies. Please see the unit supplemental regulations for the format and composition of the examination committee for the candidacy examination.

This examination, which is independent from the thesis Proposal, may be oral, written, or both and may cover subjects relevant to the general area of the candidate’s research. These must be made known to the students.

A pass decision of the examiners must be unanimous. Students must be provided with feedback on their performance and access to the reasons for the pass/fail.

The Dean of the Faculty of Graduate Studies must be informed whether the candidate has passed or failed the candidacy examination on the "Report on Ph.D. Candidacy Examination" form (http://umanitoba.ca/faculties/graduate_studies/forms/index.html).

Any student who fails the candidacy examination twice will be required to withdraw from the Faculty of Graduate Studies.

On successful completion of this examination, the student will be considered a candidate for the Ph.D. degree.

<table>
<thead>
<tr>
<th>Faculty of Graduate Studies Regulation</th>
<th>Supplemental Regulation</th>
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<tbody>
<tr>
<td><strong>Candidacy Exam for BME Ph.D. Program</strong></td>
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<tr>
<td>Approximately one year after the approval of the Thesis Proposal, and normally between 22-26 months from the start of the program, the student must sit the Candidacy Exam. The following two-component exam process will be followed.</td>
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<tr>
<td><strong>1. Written Component</strong></td>
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<tr>
<td>a. The student is required to write a scientific manuscript on a related but different topic of the thesis proposal, of approximately 6000-8000 words, that follows the format of a recognised peer-reviewed journal in this field. The manuscript should provide (at a minimum):</td>
<td></td>
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<tr>
<td>i. an introduction to the related but different work that the student is carrying out, with extensive references supporting the material;</td>
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<tr>
<td>ii. the methods and materials used to carry out the study / project;</td>
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<td>iii. the results obtained and a detailed analysis thereof;</td>
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<tr>
<td>iv. a discussion that fully demonstrates the significance and feasibility of this research;</td>
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<tr>
<td>v. a conclusion.</td>
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<tr>
<td>b. The paper must be provided to the members of the committee for review at least 3 weeks prior to the oral exam.</td>
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<tr>
<td>c. Publication of the paper following a successful Candidacy exam is encouraged.</td>
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<tr>
<td>d. The committee members should review the manuscript as if they were reviewing a submission to a peer-reviewed journal. The review should consider style, scientific content and grammar in order to determine whether the student is able to research, construct and write a scientific paper.</td>
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<tr>
<td>e. If the majority of the committee feels that the paper is acceptable for publication with only minor revisions, the student may proceed to the oral exam.</td>
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<tr>
<td><strong>2. Oral Exam</strong></td>
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<tr>
<td>a. The oral examination will consist of a 20-30 minute presentation of the paper</td>
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**Note:**
Blue-shaded boxes must be filled in. Yellow-shaded boxes must be filled in if a unit offers that specific program route (i.e. Comprehensive Examination route)
3. **Exam Committee Structure**

   a. The Examination Committee normally consists of the entire Advisory Committee plus an additional member (external) who has relevant expertise, has not served on the student’s advisory committee and has no conflicts of interest in serving as the external examiner for the student. This additional member must be acceptable to the Faculty of Graduate Studies and the BME Program Director or the Chair of the BME Admission Committee.

   An independent Chair will be appointed by the BME Program Director or the Chair of the BME Admissions Committee to oversee the M.Sc. Examination. The Chair does not question the student. The Chair is advisory and non-voting.

### 5.9 Thesis Proposal

Some units have specific procedures in place for approval of thesis proposals and students are advised to refer to the specific unit supplemental regulations. If units require thesis Proposal

The student shall submit a 3-page thesis proposal, outlining the nature, and scope of the work (including a brief introduction, methods and anticipated outcomes) to

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**Note:**
Blue-shaded boxes must be filled in. Yellow-shaded boxes must be filled in if a unit offers that specific program route (i.e. Comprehensive Examination route)

*Biomedical Engineering supplemental regulations approved by FGS Feb. 5, 2015*
approval, this exercise is independent from the candidacy examination. Regardless, the proposed thesis research must be approved by the advisory committee and, if necessary, by the Human Research Ethics Board or Animal Care Committee before the work has begun on the thesis research or project.

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**5.10 Thesis**

An essential feature of Ph.D. study is the candidate’s demonstration of competence to complete a research project and present the findings. The thesis must constitute a distinct contribution to knowledge in the major field of study, and the research must be of sufficient merit to be, in the judgement of the examiners, acceptable for publication.

The thesis must be written according to a standard style acknowledged within the candidate’s particular field of study and recommended by the unit, be lucid and well written, and be reasonably free from errors of style and grammar (including typographical errors).

The final version of the thesis must be submitted by the candidate to the Faculty of Graduate Studies following the guidelines found at: [http://umanitoba.ca/faculties/graduate_studies/thesis/guidelines.html](http://umanitoba.ca/faculties/graduate_studies/thesis/guidelines.html)

**5.11 Thesis Examination Procedures**

The final examination for the Ph.D. degree proceeds in three stages (see Figure 5-1):

1. Examination of the candidate’s thesis by an internal examining committee.
2. Examination of the candidate’s thesis by an external examiner.
3. Oral examination of the candidate by all examiners on the subject of the thesis and any matters relating thereto.

**5.11.1 Formation of the Examining Committee I - University of Manitoba (Internal) Examiners**

The candidate’s advisor/co-advisor, in consultation with the Head of the unit, will recommend at least three internal thesis examiners on the “Thesis Title and Appointment of Examiners” form ([http://umanitoba.ca/faculties/graduate_studies/forms/index.html](http://umanitoba.ca/faculties/graduate_studies/forms/index.html)) to be forwarded to the Dean of the Faculty of Graduate Studies for approval. One member must hold a primary appointment within the unit and one member must hold no appointment within the unit. All internal examiners must be members of the Faculty of Graduate Studies. Under normal circumstances these will be members of the candidate’s advisory committee, if not, approval must be obtained from the Dean of the Faculty of Graduate Studies.

The internal examiners normally will be the members of the student’s advisory committee plus an additional member (internal-external) who has relevant expertise, has not served on the students advisory committee and has no conflicts of interest in serving as the external examiner for the student. This additional member must be acceptable to the Faculty of Graduate Studies and the BME Program Director or the Chair of the BME Admission Committee.

**5.11.2 Formation of the Examining Committee II - External Examiner**

The candidate’s advisor/co-advisor, in consultation with the advisory committee, will recommend the names of three distinguished scholars from outside the University of Manitoba with particular experience in the field of the thesis research to serve as the external examiner ([http://umanitoba.ca/faculties/graduate_studies/forms/index.html](http://umanitoba.ca/faculties/graduate_studies/forms/index.html)). The
recommendations should include a brief CV of each of the prospective external examiners and a short statement detailing the rationale behind the recommendations, the prospective external examiners’ qualifications, including a current list of his/her scholarly publications and research activities and, importantly, their experience with graduate student education. If any of the recommended examiners does not meet the following criteria, specified below, a detailed explanation should be included with the rationale for the recommendation.

The external examiner should:

- hold a Ph.D. or equivalent;
- hold the rank of Associate Professor, Full Professor, Senior Scholar or Emeritus Professor (or the equivalent if outside North America) at a university, or have comparable expertise and standing if not a faculty member at a university;
- have an established reputation in the area of the thesis research and be able to judge whether the thesis would be acceptable at an institution comparable to the University of Manitoba; and
- have significant recent experience with the supervision and/or examination of Ph.D. students.

The external examiner should not:

- have acted as an external examiner for the same Ph.D. supervisor within the previous two years;
- have been associated with the candidate at any time or in any significant way in the past five years, present or reasonably foreseeable future (advisor/co-advisor, colleague, teacher, co-author of published material, family member etc.); or
- be associated with the candidate’s advisor/co-advisor in any of the following ways:
  - former student;
  - research advisor/co-advisor;
  - research collaborator within the last five years;
  - co-author of published material within the last five years.
  - have had a significant academic disagreement with the candidate, the advisor/co-advisor or any member of the advisory committee.

The Dean of the Faculty of Graduate Studies will choose the external examiner from the list provided by the candidate’s advisor/co-advisor and will make the formal invitation to the external examiner. The Dean of the Faculty of Graduate Studies shall ensure the anonymity of the external examiner until it has been determined that the student can proceed to oral defence.

5.11.3 Changes in the Examining Committee

The Dean of the Faculty of Graduate Studies must approve changes in the membership of the examining committee. No changes shall be made in the examining committee after the thesis is submitted to the Faculty of Graduate Studies. Should the thesis not be submitted for examination within 12 months after the appointment of the examining committee, the committee appointment will lapse and a new “Thesis Title and Appointment of Examiners” form (http://umanitoba.ca/faculties/graduate_studies/forms/index.html) will be required to be completed.

5.11.4 Distribution of the Thesis for Examination

It is the responsibility of the Faculty of Graduate Studies to distribute the electronic version of the thesis to all examiners. The Faculty of Graduate Studies shall attempt to ensure that the thesis is distributed to examiners as soon as possible after the submission of all required documentation. The Academic Schedule in the Graduate Calendar should be consulted regarding dates by which theses must be submitted.

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**Note:**
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*Biomedical Engineering supplemental regulations approved by FGS Feb. 5, 2015*
Once the thesis has been submitted to the Faculty of Graduate Studies, neither the candidate nor the advisor/co-advisor shall have any communication with the examining committee regarding the thesis. However should the need arise, the external examiner may contact the Dean of the Faculty of Graduate Studies to discuss any issues related to the thesis.

5.11.5 Responsibilities of the Examiners

In general the examiners are responsible for:

- ensuring that the thesis and the candidate meet recognised scholarly standards for a Ph.D.
- appraising the underlying assumptions, methodology, findings, and scholarly significance of the findings of the thesis
- ensuring that the thesis is organized, presents data and uses accepted conventions for addressing the scholarly literature in an acceptable manner
- evaluating that the candidate has the ability to present their findings orally and demonstrate their scholarship by responding to questions and defending the thesis

Notes:

1. Any potential breach of academic integrity should be reported to the Dean of the Faculty of Graduate Studies for investigation by the Vice President (Research and International).

2. Submission of previously published, peer-reviewed material in the thesis does not preclude its examination, either as a written document being reviewed by examiners or at the thesis defence.

5.11.6 Process

**Internal Examiners**

The Dean of the Faculty of Graduate Studies will request the internal examiners to give, within three (3) weeks of the distribution of the thesis, a detailed written report of the thesis and place it into one of the following categories:

1. The thesis represents a distinct contribution to the candidate’s field of research and is acceptable as it stands. Minor revisions to content, structure, or writing style may be required. The thesis may proceed to external distribution.
2. The thesis has merit and makes a contribution to the candidate’s field; however, there are research-related concerns that have the potential to be addressed in the oral examination. The structure and writing style are acceptable or require only minor revisions. The thesis may proceed to external distribution.
3. The thesis has some merit, but is not acceptable in its current state and requires major revisions to one or more of its core components, such as research content, structure or writing style. The thesis cannot proceed to external distribution.
4. The thesis is unacceptable with respect to its core components, such as research content, structure, and writing style. The thesis cannot proceed to external distribution.

If none or one (the dissenting voice) of the internal examiners fails the thesis (i.e. places it in categories 3 or 4 above), the thesis receives an internal pass and shall proceed to external distribution. Prior to external distribution, the candidate shall have the opportunity to incorporate changes suggested by the examining committee but not necessarily those of the dissenting voice.

If two or more of the internal examining committee fail the thesis (i.e. places the thesis in categories 3 or 4 above) then the thesis fails.

If the thesis fails, the unit Head shall convene a meeting of the internal examining committee and

Note:
Blue-shaded boxes must be filled in. Yellow-shaded boxes must be filled in if a unit offers that specific program route (i.e. Comprehensive Examination route)

*Biomedical Engineering supplemental regulations approved by FGS Feb. 5, 2015*
<table>
<thead>
<tr>
<th>Faculty of Graduate Studies Regulation</th>
<th>Supplemental Regulation</th>
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<td>the candidate’s advisor/co-advisor to decide how to bring the thesis to an acceptable scholarly standard for a second submission to the internal examining committee. In normal circumstances, this will involve additional scholarly work which the unit Head will describe, in writing, to the advisor/co-advisor, the candidate and the Dean of the Faculty of Graduate Studies.</td>
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If more than one of the internal examining committee members fail the resubmitted thesis, this constitutes a second failure. In the case of a second failure, the candidate cannot proceed to external distribution, and the candidate is required to withdraw from the Faculty of Graduate Studies.

The awarding of a passing grade by an individual internal examiner does not preclude them from awarding a failing grade at a subsequent stage in the examination process.

**External Examiner**

The Dean of the Faculty of Graduate Studies will request the external examiner to give, within three (3) weeks of the distribution of the thesis, a detailed written report of the thesis and rate it either as a pass or a fail. The Dean of the Faculty of Graduate Studies shall ensure the anonymity of the external examiner until it has been determined that the student can proceed to oral defence.

- If the external examiner passes the thesis, the student can proceed to oral defence.
- If the external examiner fails the thesis, the unit Head shall convene a meeting of the internal examining committee and the student's advisor/co-advisor to decide how to bring the thesis to an acceptable scholarly standard. In normal circumstances, this will involve additional scholarly work which the unit Head will describe, in writing, to the advisor/co-advisor, the candidate and the Dean of the Faculty of Graduate Studies.
- If the external examiner fails a resubmitted thesis, this constitutes a second failure. In the case of a second failure, the candidate cannot proceed to oral defence, and the candidate is required to withdraw from the Faculty of Graduate Studies.

The awarding of a passing grade by an external examiner does not preclude them from awarding a failing grade at a subsequent stage in the examination process.

**Reports**

If advancement to the oral examination is approved, as outlined above, the Dean of the Faculty of Graduate Studies shall provide electronic copies of all reports to each of the advisor/co-advisor, examiners and Head of the unit.

**5.12 The Oral Examination**

**5.12.1 Scheduling**

Units cannot proceed with scheduling the oral defence prior to receiving the approved examiners report from the Faculty of Graduate Studies. The examination must be held at the University of Manitoba. It is the responsibility of the unit to ensure that all room booking arrangements are made and appropriate facilities meet minimum standards expected for a Ph.D. defence. In addition, the candidate must submit, in electronic format biographical information and an abstract of the thesis to the Faculty of Graduate Studies.

**5.12.2 Attendance**

The Dean of the Faculty of Graduate Studies or designate shall act as Chair of the examination committee.

The attendance of the external examiner in person at the candidate's oral examination is

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*Biomedical Engineering supplemental regulations approved by FGS Feb. 5, 2015*
encouraged. If the external examiner will not be present in person, his/her participation via voice or video conferencing is expected.

It is required that all internal members of the examining committee be present at the defence, unless exceptional circumstances prevent this and with prior approval of the Dean of the Faculty of Graduate Studies. Regardless, no more than two participants can use voice or video conferencing.

Under no circumstances can the candidate participate by voice or video conferencing.

Normally, the oral examination shall be open to all members of the University of Manitoba community and the general public. In exceptional cases the final oral examination may be closed; for example, when the results of the thesis research must be kept confidential for a period of time. In such cases, the examination committee and Head of the unit shall request prior approval in writing from the Dean of the Faculty of Graduate Studies. If approved, the final oral examination shall be closed to all but the examining committee and the Dean of the Faculty of Graduate Studies or designate.

Regardless of open or closed status, no recording devices will be permitted.

### 5.12.3 Format of the Examination

The first part of the oral examination shall consist of an oral presentation by the candidate. This is followed by examination of the candidate by the examination committee. If time permits the Chair, at their discretion, may allow questions from members of the audience.

### 5.12.4 Procedures for the Conduct of the Examination

The Chair should discuss the examination procedures with the examiners in camera prior to the beginning of the formal examination.

The Chair will introduce the candidate and request him/her to give a concise (20 to 25 minute) oral presentation of the thesis to include a summary of the problem addressed, the results obtained and the conclusions drawn from the study.

Following the presentation, the Chair will invite questions from each member of the examining committee, taking care to ensure that each examiner has approximately equal time for questions. The total time for questions by the examining committee must not exceed two (2) hours.

The Chair may exercise his/her discretion in allowing questions from the audience following completion of the formal examination. Once assuming the role of Chair, he/she foregoes the right to comment on the merits of the thesis whether or not he/she is an expert in the field.

### 5.12.5 Decision of the Committee:

Following completion of the formal examination, the candidate and audience must leave the examination room. The decision of the examining committee will be based both on the content of the thesis and on the candidate's ability to defend it.

The judgement of the examiners shall be reported to the Faculty of Graduate Studies in the qualitative terms “pass” or “fail” and each examiner must indicate his/her opinion by his/her signature:

- **Pass**: the candidate has satisfactorily presented their findings orally and answered, to the satisfaction of the examination committee, the methodology, observations and conclusions presented in the thesis. The advisor/co-advisor is charged with ensuring...
that any minor editorial or typographical revisions are satisfactorily completed. The Chair shall report this decision to the Dean of the Faculty of Graduate Studies on the "Final Oral Examination of the Ph.D. Thesis" form. Those examiners in agreement must indicate, by their signatures, concurrence with the passing grade.

- **Fail**: the candidate has failed to adequately orally present, or satisfactorily respond to questions posed related to, the thesis. This shall include significant defects in conception, methodology or context. The Chair shall report this decision, including providing the detailed written reasons for this decision, to the Dean of the Faculty of Graduate Studies on the "Final Oral Examination of the Ph.D. Thesis" form. Each examiner in agreement must indicate, by his/her signature, concurrence with the failing grade. A copy of the report will be made available to the candidate by the Dean of the Faculty of Graduate Studies.

If the external examiner or two or more internal examiners indicate a fail, the candidate fails the examination.

### 5.13 Candidate Awards

The examination committee may recommend in writing to the Faculty of Graduate Studies that the thesis is of sufficient merit to receive an award.

### 5.14 Graduation

The candidate will be recommended for the Ph.D. degree upon receipt by the Faculty of Graduate Studies of favourable reports by the thesis examining committee, a corrected copy of the electronic version of the thesis submitted to MSpace, a corrected copy of the paper version of the thesis (submitted to the Faculty of Graduate Studies), final approval and release forms and providing all other degree requirements have been satisfied.

### 5.15 Student Withdrawal

A student will be required to withdraw when the Ph.D. thesis has been rejected twice at the stage where:

a) The internal examining committee reports on the merits of the written thesis;

b) The external examiner reports on the merits of the written thesis;

c) The oral examination; or

d) A combination of any of these stages.

### SECTION 6: Policy of Withholding Thesis Pending Patent Applications

Content or Manuscript Submission

In 1970 the University of Manitoba Board of Governors and Senate approved a policy on accepting research grants from outside agencies. This policy defined the right of agencies to defer release of information and thus ensure freedom of publications for research findings of University personnel. Occasionally, the University may also wish to restrict the release of a thesis pending patent application. For additional details, see the University of Manitoba governing document: [http://umanitoba.ca/admin/governance/governing_documents/community/235.html](http://umanitoba.ca/admin/governance/governing_documents/community/235.html)

This situation may arise in the two circumstances defined below, both of which are governed by the same set of regulations.

1. Where a research project is known to contain patentable items as defined in the research contract, then it is the responsibility of the advisor to give written information of the restrictions on publication to the student prior to the start of the thesis research. If the student agrees to carry out the research, then the regulation given below will apply.

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*Biomedical Engineering supplemental regulations approved by FGS Feb. 5, 2015*
### Faculty of Graduate Studies Regulation

**Regulations Concerning Release of a Thesis During Application and Negotiation For Patents**

The Dean of the Faculty of Graduate Studies will receive the approved thesis. On written joint request of the advisor and the student, the Dean will retain the thesis for a period not to exceed one year.

**Regulations Concerning Release of Thesis Pending Manuscript Submission**

The Dean of the Faculty of Graduate Studies will receive the approved thesis. On written joint request of the advisor and the student, the Dean will keep the thesis for a period up to one year.

### Supplemental Regulation

**SECTION 7: Extension of Time to Complete Program of Study Content**

All requests for extensions will normally be dealt with administratively and reported, in summary form, to the Executive Committee of Graduate Studies for information. The student must complete the "Request for Extension" form [http://umanitoba.ca/faculties/graduate_studies/forms/index.html](http://umanitoba.ca/faculties/graduate_studies/forms/index.html) and submit it to his/her major unit for recommendation to the Faculty of Graduate Studies at least three, but no more than four, months prior to expiration of the respective maximum time limit. Requests for an extension are reviewed by the Faculty of Graduate Studies on a case by case basis.

Requests for extension must be accompanied by a realistic timeline that has been agreed upon by the student and advisor/co-advisor and endorsed by the unit Head. The extension time requested must closely reflect the time required to complete the program.

The normal time requested for extensions is four to eight months. More than one extension period may be considered. However the total approved for all extensions will not normally exceed one year.

### Section 8: Leaves of Absence

#### 8.1 Regular Leave

A regular leave is intended to allow students to meet responsibilities/plans related to family, travel or employment and circumstances not covered by the parental or exceptional leaves. At the student's request, the Head of the unit may recommend to the Dean of the Faculty of Graduate Studies that a student be granted a leave of absence for a period of time not to exceed one year. While on leave of absence, a student would not be expected to conduct study and/or thesis research work. Students on regular leaves of absence will be required to maintain continuous registration and pay the appropriate continuing fee. If a student has program tuition fees (as opposed to continuing fees) owing at the time of the granting of the leave, the tuition fees will be deferred until the student returns from leave; however, the continuing fee will be levied.* A regular leave of absence status does not extend the time limits as outlined in Faculty of Graduate Studies regulations.

*Program Fees: The continuing fee in effect at the time of the granting of the leave will be levied. However, if the student returns from leave in January, the normal tuition fee will be levied less the continuing fee already paid.

#### 8.2 Exceptional Leave

In exceptional circumstances for medical or compassionate reasons (e.g. the need to care for an ailing family member), at the request of the student the Head of the unit may recommend to the

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*Biomedical Engineering supplemental regulations approved by FGS Feb. 5, 2015*
Dean of the Faculty of Graduate Studies that a student be granted an exceptional leave of absence for a period of time not to exceed one year. While on an exceptional leave of absence, a student is not permitted to maintain study and/or thesis research work, would not be required to maintain continuous registration, nor pay tuition fees. In addition, the leave period would not be included in the time period allowed for the completion of the degree. This leave is not intended to cover circumstances related to travel, employment or financial concerns.

### 8.2.1 Fees

Students are not expected to pay fees for the term in which they have been granted an exceptional leave. Upon return from the exceptional leave, students will be assessed fees as determined by the Registrar’s Office.

### 8.3 Parental Leave

A graduate student who is expecting a child or who has primary responsibility of the care of an infant or young child immediately following a birth or adoption of a child is eligible for parental leave. The request should be made through the unit, normally for a leave of four to twelve months. Leaves of other duration will be considered on an individual basis. Parental leaves must correspond with (an) academic term(s). While on leave of absence for parental reasons, a student is not permitted to maintain study and/or thesis research work. The leave period is not included in the time period allowed for completion of the degree.

#### 8.3.1 Fees

Students are not expected to pay fees for the term in which they have been granted a parental leave. Upon return from the parental leave students will be assessed fees as determined by the Registrar’s Office.

**Note:** At the time of approval of an application for leave, the procedures for the return of the student to the unit at the completion of the leave must be stipulated.

### 8.4 Awards and Leave of Absence

Students granted exceptional or parental leave will retain the full value of a University of Manitoba Graduate Fellowship or other award whose terms and conditions are established by the Faculty of Graduate Studies. Such an award will be suspended at the onset of the leave and reinstated at the termination of the leave period (4 to 12 months) provided that the student returns to full time study at that time.

**Note:** Other awards will be paid according to the conditions established by the donor or granting agency.

### 8.5 Graduate Student Vacation Entitlement

Students are entitled to three weeks of vacation over a 12-month period.

### SECTION 9: Appeals – Procedures and Guidelines

#### 9.1 General

Students who disagree with a decision have access to appeal routes as laid out by various Faculty of Graduate Studies and University of Manitoba appeal procedures. Student appeals may be limited by the scope of the inquiry available at each level and category of appeal, as well as the time limitations for submission of appeals.

A further limitation is that the Faculty of Graduate Studies rules and regulations, established to uphold the academic rigour of the University of Manitoba, are generally not subject to appeal unless an appeal route is otherwise stipulated. In situations where no appeal route is available, a student may make a written request to the Dean of the Faculty of Graduate Studies.

Students are referred to the appeals section of the University of Manitoba Governing Documents

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For students registered in Joint Master's Programs (University of Manitoba and University of Winnipeg) there is a different process for handling appeals and academic dishonesty cases than for University of Manitoba students in regular programs (not Joint Programs). This process is outlined in the Joint Master's Program Governing Documents available at http://umanitoba.ca/faculties/graduate_studies/media/JMP_Regulations.pdf.

9.2 Definitions

- **Appellant** – the graduate student appealing a decision affecting the student's own admission to, academic standing in, awards from or disciplinary action by a unit or the Faculty of Graduate Studies;
- **Appeal Panel** – a panel convened from the members of the Faculty of Graduate Studies Appeals Committee by the Executive Committee of the Faculty of Graduate Studies empowered to deal with appeals stemming from decisions of units or the Faculty of Graduate Studies, or individuals designated to make such decisions;
- **Unit** – the unit council, or appeal body, whose decision is being appealed. This is understood to include decisions taken by individuals or committees acting in the name of the unit and also to the supplementary regulations pertinent to a unit’s operation which have been approved by the Faculty of Graduate Studies;
- **Respondent** – a representative of the unit or the Faculty of Graduate Studies designated by the unit Head/Dean of the Faculty of Graduate Studies to represent the unit or Faculty of Graduate Studies.

9.3 Types of Appeal

There are several areas of appeal which are open to appellants:

- admission;
- academic;
- discipline;
- administration (e.g. Fee appeals).

In all cases, appeals should be directed to the Dean of the Faculty of Graduate Studies. A decision of the Faculty of Graduate Studies Appeal Panel is appealable only to the Senate Committee on Appeals or the University Discipline Committee, as appropriate.

9.4 Admission Appeals


9.5 Academic Appeals

9.5.1 Composition

Faculty members or students are disqualified from participating on an Appeals Panel if he/she:

- holds any academic appointment in the unit in which the appellant is registered;
- is/was a student in the unit in which the appellant is registered;
- was, as an individual, or as a member of a committee or board, responsible for making
Note: All members of an Appeal Panel shall participate in all of the deliberations essential for the determination of the matter in dispute. If, in the course of hearing an appeal, a member is not present at the commencement of the hearing or a member cannot continue, the Panel may elect to proceed in the absence of that member. If more than one member is not present at the commencement or cannot continue, the Appeal Panel must adjourn.

9.5.2 Consideration

Appeal Panels will consider appeals:

- stemming from a decision of a unit on academic matters (e.g. failure in a course) only after they have been dealt with by the appropriate unit-level appeal process (if any), as is outlined in its supplementary regulations;
- stemming from a decision of the Faculty of Graduate Studies following the recommended action of a unit (e.g., qualifying examinations, candidacy examinations, thesis proposals, thesis examinations), only after they have been dealt with by the appropriate unit-level appeal process (if any), as outlined in its supplementary regulations;
- stemming from a decision of the Faculty of Graduate Studies.

In all cases, appeals should be directed to the Dean of the Faculty of Graduate Studies. A decision of the Appeal Panel is appealable only to the Senate Committee on Appeals (see http://umanitoba.ca/admin/governance/governing_documents/students/senate_committee_on_appeals_policy.html).

9.5.3 Grounds for an Academic Appeal

The Appeal Panel shall only consider an appeal if there is some evidence that:

- the unit or the Faculty of Graduate Studies failed to follow the rules of natural justice;
- the unit or the Faculty of Graduate Studies failed to follow procedures;
- a unit or Faculty of Graduate Studies regulation has been unfairly or improperly applied, or has become inapplicable through lapse of time;
- there are documented mitigating circumstances (e.g. medical, compassionate);
- there is apparent conflict between a Senate Regulation, a Faculty of Graduate Studies policy and/or a unit regulation.

Note: It shall be the responsibility of the appellant to indicate clearly and specifically the grounds warranting consideration of the appeal.

9.5.4 Academic Appeal Deadlines

9.5.4.1 Appeal of Term Work:

Students are encouraged to discuss matters relating to grading of term work with their instructor in the first instance. Further appeals of grades on academic term work shall be directed, by the appellant, to the unit responsible for the course within ten (10) working days after the grades for term work have been communicated to students. Following receipt of the appropriate appeal form and evidence of payment of the refundable appeal fee, the unit shall consider the appeal and provide a decision within fifteen (15) working days.

9.5.4.2 Appeal of Faculty of Graduate Studies Decision:

An appeal of action taken by any unit, committee, administrator or faculty member within the Faculty of Graduate Studies must be submitted in writing by the appellant to the Dean of the Faculty of Graduate Studies within fifteen (15) working days of the date from the date that the appellant was informed in writing of the action to be appealed.

Note: Blue-shaded boxes must be filled in. Yellow-shaded boxes must be filled in if a unit offers that specific program route (i.e. Comprehensive Examination route)
9.5.4.3 Appeals to Senate:

As per the University of Manitoba Governing Documents: Students: Policy: Appeals Procedures and Guidelines (http://umanitoba.ca/admin/governance/governing_documents/students/senate_committee_on_appeals_procedures.html), appeals to the Senate Committee on Appeals shall be filed with the University Secretary within twenty (20) working days after the mailing of the notice of decision from which the appeal is made.

9.5.5 Academic Appeals Process

9.5.5.1 Documentation

The Dean of the Faculty of Graduate Studies may, on consideration, attempt first to reach an informal solution. If that is judged by the Dean of the Faculty of Graduate Studies to be inappropriate or unfeasible, an Appeal Panel will be formed.

The Dean of the Faculty of Graduate Studies shall inform the appropriate unit head of the nature of the appeal, forward a copy of the appellant’s written submission, and request a written response to the appeal within ten (10) working days. An Appeal Panel will be struck and a meeting set by the Dean of the Faculty of Graduate Studies as soon as possible after receipt of the written response from the respondent.

The appellant shall receive, through the Dean of the Faculty of Graduate Studies, the response of the respondent at least one week prior to the date set for the hearing of the appeal. Notices of the hearing shall be sent by the Dean of Graduate Studies to the individuals affected, giving the specific time and place for a hearing.

All documentation that the Appeal Panel will consider shall be made available through the Dean of the Faculty of Graduate Studies Office to both the appellant and the respondent in advance of the hearing. No additional materials may be presented at the time of the hearing. In the case where a request is made to submit additional materials, the Chair shall postpone the hearing and allow no more than ten (10) working days for the other party to respond to the new materials.

9.5.5.2 Hearing

The appellant and respondent shall have the right to appear before the Appeal Panel and to call witnesses that he/she wishes to appear before the panel. It is the responsibility of the party calling witnesses to ensure that the witnesses are informed of the date and time of the hearing. The Dean of the Faculty of Graduate Studies shall be notified not less than four working days prior to the hearing of the names of all witnesses that are to be called and shall inform the other party.

The appellant shall be advised by the Dean of the Faculty of Graduate Studies of the right to appear in person or to be represented by the student advocate, a fellow student or other full-time member of the University community not receiving payment for appearing, or working for legal aid.

In addition, if the appellant wishes, one member of his/her immediate family, and a lawyer, may be present, but only as observers who do not participate. The Dean of the Faculty of Graduate Studies must be notified of any persons to be accompanying the appellant at least four working days prior to the hearing.

Hearings shall be held in closed session unless at least one party requests an open hearing and all parties to the appeal agree to the request. During the hearing, the appellant or the respondent may request a change in the open or closed nature of the hearing, at which time the Appeal Panel shall determine its procedures.

As the first item of business in dealing with any appeal, the Appeal Panel shall convene (in

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9.5.5.3 Disposition

The Chair of the Appeal Panel shall inform the Dean of the Faculty of Graduate Studies in writing of the disposition of the appeal, the reasons for the decision, and any actions that may result. The Dean of the Faculty of Graduate Studies shall, in turn, inform the appellant and the unit in writing of the disposition of the appeal, the reasons for the decision and any actions that may result. The further right of appeal to the Senate Committee on Appeals should be acknowledged, along with any relevant time limits. The Dean of the Faculty of Graduate Studies may inform the unit of any recommendations brought forward by the Appeal Panel.

9.6 Discipline Appeals

The specific jurisdiction of each of the Disciplinary Authorities is outlined in: University of Manitoba Governing Documents: Students: Bylaw: Student Discipline. See 2.3.3: Table 1: Jurisdiction of Disciplinary Authorities

http://umanitoba.ca/admin/governance/governing_documents/students/868.html

When the appeal is against a disciplinary decision made by the Faculty of Graduate Studies, the appeal routes and procedures as outlined in the following shall prevail: University of Manitoba Governing Documents: Students: Procedures: Student Discipline

(http://umanitoba.ca/admin/governance/governing_documents/students/868.html)

If the appeal is from a decision of the Dean of the Faculty of Graduate Studies the appeal statement shall be delivered to the Dean of the Faculty of Graduate Studies on behalf of the Local Discipline Committee (also commonly referred to as the “L.D.C.”)

If the appeal is from a decision of the L.D.C., the official statement shall be delivered to the Secretary of the University Discipline Committee (U.D.C.) with a copy to the Dean of the Faculty of Graduate Studies.
9.6.1 Discipline Appeal Deadlines

If a student wishes to appeal a decision, the notice of appeal must be delivered in writing to the appropriate person(s) within ten (10) working days of the student being notified of the decision the student intends to appeal.

9.6.2 Appeal of Violation/Penalty

As per section 2.7.2 of the University of Manitoba Governing Documents: Students: Procedures: Student Discipline: http://umanitoba.ca/admin/governance/governing_documents/students/870.html

The student shall clearly indicate in the notice of appeal whether they are appealing the decision on:

(a) the finding of facts;

(b) the disposition determined by the disciplinary authority; or

(c) both (a) and (b).

9.7 Fee Appeals

Please refer to the Registrar’s Office webpage on fee appeals: http://umanitoba.ca/student/records/fees/830.htm. To initiate the Fee Appeal procedure, the student completes a Fee Appeal form, available online or in the Registrar’s Office, 400 University Centre.

9.8 Grade Appeals

Please refer to the Registrar’s Office webpage on grade appeals: http://umanitoba.ca/student/records/exams_grades_hub.html. To initiate the Grade Appeal procedure, the student completes a Grade Appeal form, available online or in the Registrar’s Office, 400 University Centre.

9.9 Assistance with Appeals

The Office of Student Advocacy, 519 University Centre, provides information and assistance to students regarding all appeal processes. It is strongly recommended that students contact the Office of Student Advocacy to assist them with any appeal they are considering.

APPENDIX 1: Thesis/Practicum Types

A student/candidate may present a thesis/practicum in one of two acceptable formats:

- Regular style
- Manuscript/grouped manuscript style

The type of thesis/practicum must be approved by the advisory committee and comply with all regulations of the Faculty of Graduate Studies and any supplemental regulations of the unit.

1.0 Regular Style

1.1 Prefatory Pages

1.1.1 Title Page

Note:
Blue-shaded boxes must be filled in. Yellow-shaded boxes must be filled in if a unit offers that specific program route (i.e. Comprehensive Examination route)

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The title page should contain the following information:

- the title of the thesis/practicum,
- the name of the University,
- the degree for which the thesis/practicum is submitted,
- the name of the unit,
- the full name of the author,
- the copyright notation ©.

The title must be a meaningful description of the content of the research. The author's name should be in full, identical to the name under which they are registered and be consistent on all other documents.

1.1.2 Abstract

The abstract is expected to provide a concise, accurate account of the thesis/practicum. Abstract maximum length is 150 words for a Master's and 350 words for a Ph.D. An abstract should contain a statement of the problem, methods, results and conclusions.

1.1.3 Acknowledgements

The content of this single page is left to the discretion of the author. For example, the page may make reference to the student/candidate's advisor and advisory committee, to other individuals who have provided invaluable assistance to the development of the thesis/practicum, and to sources of financial assistance.

1.1.4 Dedication

A single page pertaining to a dedication is allowed.

1.1.5 Table of Contents

This must list, and provide page references to, all elements of the thesis/practicum. The numbering and formatting must be identical to the way the material appears in the text. Page numbers should be right justified.

1.1.6 List of Tables

This should immediately follow the Table of Contents and be of the same format. The list must include the number, name and page number of each table.

1.1.7 List of Figures

This should immediately follow the List of Tables and be of the same format as the Table of Contents. The list must include the number, name and page number of each figure.

1.1.8 List of Copyrighted Material

On occasion students/candidates include images, figures, photos and other materials from copyrighted sources. Written permission from the copyright holder is required. This should follow the List of Tables and follow the same format as the Table of Contents. For further information on copyright see: http://umanitoba.ca/faculties/graduate_studies/thesis/copyright_permission.html.

1.2 Format

1.2.1 Styles

The thesis/practicum should be written in a standard style manual that has been recommended by the unit. Manuals recommended by the Faculty of Graduate Studies include but are not limited to:

- American Psychological Association, Publication Manual of the American...
Note:
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1.5 Additional Materials

1.5.1 Consent and Access to Information Forms

Sample copies of consent forms that were used to obtain consent from participants to take part in the information gathering procedures for the thesis/practicum must be included in an Appendix. Any personal information must be omitted from the submitted form.

In some cases, approval from an agency, institution or corporation may have been required before the information gathering procedures could proceed. The original approval form for access should be retained by the student with a copy provided to the Faculty of Graduate Studies upon completion of the thesis/practicum.

1.5.2 Use of Copyrighted Material

If the thesis/practicum includes copyrighted material (images or more than a reasonable extract (according to the Copyright Act) of another person's work), permission must be obtained from the copyright holder. The Faculty of Graduate Studies has developed a form (http://umanitoba.ca/faculties/graduate_studies/forms/index.html) that can be utilized when requesting the use of copyrighted material.

In some cases, copyright holders prefer to use their own permission forms and/or will provide their permission electronically. Both of these are acceptable by the Faculty of Graduate Studies.

Note that obtaining permission may take a considerable amount of time and this must be taken into consideration when meeting a thesis/practicum submission deadline. A reference to written permission having been obtained must be included under the image or text. The reference should also include the date the permission was granted, and the name/title of the copyright holder(s). The original form(s) signed by the copyright holders should be retained by the student with a copy provided to the Faculty of Graduate Studies at the completion of the thesis/practicum.

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2.0 Manuscript/Grouped Manuscript Style

A thesis/practicum may comprise a paper, or collection of papers, which are, or are about to be, published. The number of papers that comprise this style of these will be determined between the student and the advisory committee. The formatting of the thesis/practicum must be consistent throughout the thesis/practicum and the thesis/practicum cannot merely consist of several papers or articles bound within the one document.

Publication, or acceptance for publication, of research results prior to the presentation of the thesis/practicum does not supersede the evaluation of the work by the examination committee (i.e. does not guarantee that the thesis/practicum will be found acceptable).
Examiners may specify revisions regardless of the publication status.

The thesis/practicum must follow the same prefatory information (1.1), spelling, formatting margin requirements, page numbering (1.2b-d), footnotes and appendices (1.3), figures, illustrations photographs and drawings (1.4) and any additional material (1.5) as those outlined above.

There must be an introductory chapter to the entire thesis/practicum which includes its own bibliography. The collection of papers or articles must contribute toward the overall theme that represents the thesis/practicum work and must be smoothly integrated into the flow of the thesis/practicum to produce a unified document. This may require changes or additions to, and re-writing of, any work which has been previously published.

The thesis/practicum must contain connecting text between the different chapters providing logical links to allow the integration of the information. These connecting sections are mandatory. Not including these sections may compromise the ability of the examiners to evaluate the thesis/practicum and accordingly there may be subsequent potential consequences.

The thesis/practicum must contain a concluding chapter that includes a discussion on how the thesis/practicum, with its findings, provides a distinct contribution to knowledge in the research area.

In the case of multi-authored papers, the nature and extent of the student/candidate’s contribution, and those of the other authors, must be explicitly specified in a section entitled “Contributions of Authors” in the “Preface” of the thesis/practicum. The advisor/co-advisor, by signing the thesis/practicum submission form, attests to the accuracy of these statements and will be asked to reaffirm at the oral defence in the case of a doctoral thesis/practicum.