



Medical Biophysics
UNIVERSITY OF TORONTO

Graduate Student Handbook 2018-2019

<http://medbio.utoronto.ca>

WELCOME TO MEDICAL BIOPHYSICS

I am delighted to welcome you to the Department of Medical Biophysics in the Faculty of Medicine at the University of Toronto. You are now part of a vibrant, multidisciplinary graduate program in medical research, whose size and diversity can be somewhat daunting to the newly arrived. Although your graduate research will be undertaken in a laboratory of one of the University affiliated teaching hospitals, your academic home is Medical Biophysics, and it is through this program that you will earn your degree. This Handbook holds much of the important information that you will need to complete your degree successfully; please refer to it as you progress through your studies. The Academic Officers and Administrative Staff are listed on the following pages: do not hesitate to contact us with any questions or concerns. I wish you a happy, stimulating and successful time in Medical Biophysics.

Thomas Kislinger
Chairman of Medical Biophysics
University of Toronto

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HOW TO CONTACT US

MBP Office Addresses:

Princess Margaret Cancer Research Tower (PMCRT, formerly TMDT) 101 College Street, 15-701 Toronto, ON M5G 1L7	Sunnybrook Research Institute (SRI) 2075 Bayview Avenue, S670 Toronto, ON M4N 3M5 Fax: 416-480-5714
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Department Officers and Staff:

	LOCATION	TELEPHONE	E-MAIL
Dr. Thomas Kislinger Chair	PMCRT, 9-807	416-581-7627	thomas.kislinger@utoronto.ca
Dr. Charles Cunningham Vice-Chair (Sunnybrook)	SRI, M326A	416-480-5021	charles.cunningham@utoronto.ca
Dr. John G. Sled Vice-Chair (Sick Kids)	TCP, 25 Orde St.	416-813-7654 x 309557	john.sled@utoronto.ca
Dr. David Malkin Associate Chair	PGCRL, 686 Bay St. 18-9705	416-813-5348	david.malkin@sickkids.ca
Dr. Razq Hakem Graduate Coordinator Downtown Students	PMCRT, 13-310	416-581-7627	razq.hakem@uhnresearch.ca
Dr. Anne Martel Graduate Coordinator Uptown Students	SRI, S668	416-480-5702	a.martel@utoronto.ca
Ms. Merle Casci Administrator & Business Manager	SRI, S670 PMCRT, 15-706	416-480-5741 416-634-8752	merle.casci@utoronto.ca
Ms. Chau Dang Graduate Program & Special Projects Coordinator	PMCRT, 15-707	416-634-8750	chau.dang@utoronto.ca
Ms. Sharlene Gaithuma Ms. Annette Chan (Mat leave, returning in Dec 2018) Graduate Assistant Downtown Students	PMCRT, 15-708	416-634-8751	s.gaithuma@utoronto.ca acw.chan@utoronto.ca

Ms. Donna-Marie Pow Graduate Assistant Uptown Students	SRI, S655	416-480-5496	donna.marie.pow@utoronto.ca
Ms. Daphne Sears Secretary	PMCRT, 15-701	416-634-8755	daphne.sears@utoronto.ca

School of Graduate Studies <http://www.sgs.utoronto.ca>

General Inquiries – Student Services	416-978-6614 graduate.information@utoronto.ca graduate.awards@utoronto.ca
MSc Examination Office	416-978-2377
PhD Examination Office	416-978-5258

Other Contacts

Convocation/Student Records Information	416-978-7070
Student Accounts Information/Fees	416-978-2142
Graduate Students' Union	416-978-2391
Centre for International Experience	416-978-2564

IMPORTANT DATES AND DEADLINES

2018

July

Mon Jul 16	<ul style="list-style-type: none">• Registration for September session begins
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August

Mon Aug 6	<ul style="list-style-type: none">• Civic Holiday; University closed
Fri Aug 24	<ul style="list-style-type: none">• Recommended tuition fee payment deadline for students registering or starting their program in the Fall session to ensure payment is received by the registration deadline of September 14, and to avoid cancellation of registration and course enrolment. International students must make a payment by this date to ensure they are covered by UHIP at the beginning of September
Thu Aug 30	<ul style="list-style-type: none">• Grad Step Up orientation for all incoming international grad students. A full-day event to help bridge the transition to graduate studies at U of T. Visit studentlife.utoronto.ca/cie/orientation-grad-step-up for details.

September

Sep 1 – Oct 1	<ul style="list-style-type: none">• New students starting in Fall 2018 and current students who wish to opt out of the supplementary health and dental plans must do so before October 1
Mon Sep 3	<ul style="list-style-type: none">• Labour Day; University closed
Tue Sep 4	<ul style="list-style-type: none">• SGS Graduate Orientation 2018 for new students. Please RSVP at http://www.sgs.utoronto.ca/currentstudents/Pages/Orientation-2018.aspx
Wed Sep 5	<ul style="list-style-type: none">• <u>MBP Student Orientation</u> at 10:00 am at Princess Margaret Cancer Centre, room 6-604 (6th floor auditorium) followed by the <u>scholarship Workshop</u> at 11:00 am. Mandatory for all new students.• Continuing students are welcome to attend.
Mon Sep 10	<ul style="list-style-type: none">• Vanier Scholarships deadline
Fri Sep 14	<ul style="list-style-type: none">• Registration deadline for students registering or starting their program in the Fall (September to December) session; after this date a late registration fee will be assessed. Minimum required payment due (unpaid fees from previous session(s) + 100% of current Fall tuition fee charges).
Mon Sep 17	<ul style="list-style-type: none">• Final date to submit final doctoral theses to SGS to avoid fee charges for 2018-19
Mon Sep 24	<ul style="list-style-type: none">• Final date to add full-year and Fall session courses

Sep 23 – 25 (Sun-Tues)	<ul style="list-style-type: none"> • MBP Annual Geneva Park Retreat (detailed information will be distributed at a later date).
Tues Sep 25	<ul style="list-style-type: none"> • MRA deadline for students who wish to have the CIHR Doctoral Research Award* administered through the University
Fri Sep 28	<ul style="list-style-type: none"> • NSERC Doctoral Scholarship deadline
Sun Sep 30	<ul style="list-style-type: none"> • Payment deadline to avoid service charges on unpaid Fall session (September to December) tuition and non-tuition fee amounts for all students registered in the Fall session only, except for those who have successfully registered without payment because they are receiving a full funding package via a research stipend, a major award or scholarship, teaching assistantships, tuition waiver, and/or sponsorships. Monthly service charges will incur starting October. • Final date to submit final doctoral thesis for Fall Convocation • Final date for receipt of degree recommendations and submission of any required theses for master's degrees for Fall Convocation without fees being charged for the fall session

October

Mon Oct 8	<ul style="list-style-type: none"> • Thanksgiving Day; University closed
Oct TBA	<ul style="list-style-type: none"> • GLSE Research Integrity Workshop - Mandatory for First Year, Doctoral Stream MSc and PhD students. Please register at http://www.glse.utoronto.ca/integrity-graduate-student-research-%E2%80%93-ethics-focus
Mon Oct 29	<ul style="list-style-type: none"> • Final date to drop fall session full or half courses without academic penalty

November

November	<ul style="list-style-type: none"> • Integrity in Research Workshop – MANDATORY for First Year students. More information will be sent later. http://www.glse.utoronto.ca/integrity-graduate-student-research-%E2%80%93-ethics-focus • Fall Convocation: Information and dates posted at: www.convocation.utoronto.ca
Fri Nov 30	<ul style="list-style-type: none"> • Payment deadline to avoid service charges on unpaid Winter session (January to April) tuition and non-tuition fee amounts for all students registered in both Fall and Winter sessions, except for those who have successfully registered without payment because they are receiving a full funding package via a research stipend, a major award or scholarship, teaching assistantships, tuition waiver, and/or sponsorships. Monthly service charges will incur starting December 15

December

Fri Dec 1	<ul style="list-style-type: none"> CGS Masters Scholarship (CIHR/NSERC) deadline
Mon Dec 24 – Fri Jan 4 (inclusive)	<ul style="list-style-type: none"> U of T, including the MBP Administrative offices, will be closed for the holidays. The office will re-open on Monday, January 7, 2019

Winter Session 2019

January

Jan 1 – Jan 31	<ul style="list-style-type: none"> New students who are starting in Winter 2019 who wish to opt out of the supplementary health and dental plans must do so before January 31st. Not applicable to current students.
Mon Jan 7	<ul style="list-style-type: none"> U of T, including the MBP Administrative offices re-opens
Mon Jan 14	<ul style="list-style-type: none"> Registration deadline for students registering or starting their program in the Winter (January to April) session; after this date, a late registration fee will be assessed. Minimum Required Payment due (unpaid fees from previous session(s) + 100% of current Winter session tuition fee charges). See methods of registration
Mon Jan 15	<ul style="list-style-type: none"> Final date to submit doctoral theses without fee payment for Winter session
Wed Jan 16	<ul style="list-style-type: none"> Fall session grades available for viewing by students on the Student Web Service (ACORN)
Fri Jan 18	<ul style="list-style-type: none"> Final date for receipt of degree recommendations and submission of any required theses for March or June graduation for masters students without fees being charged for the winter session Final date for all students to request their degrees be conferred in absentia in March Final Date to submit final doctoral theses for March Convocation in absentia Students dually registered in the Fall session must be recommended for the master's degree by this date to maintain their PhD registration.
Mon Jan 21	<ul style="list-style-type: none"> Final date to add Winter session courses
Thu Jan 31	<ul style="list-style-type: none"> Payment deadline to avoid service charges on unpaid Winter session (January to April) tuition and non-tuition fee amounts for all students registered in the Winter session only, except for those who have successfully registered without payment because they are receiving a full funding package via a research stipend, a major award or scholarship, teaching assistantships, tuition waiver, and/or sponsorships. Monthly service charges will incur starting February 15

February

Fri Feb 15	<ul style="list-style-type: none">Students who started in September 2018 and joined their lab in January 2019 should form their Supervisory Committee and submit the names to the MBP Office for approval
Mon Feb 18	<ul style="list-style-type: none">Family Day; University closed
Mon Feb 25	<ul style="list-style-type: none">Final date to drop full-year or Winter session courses without academic penalty

March

March	<ul style="list-style-type: none">March Graduation In absentia Information is posted at www.convocation.utoronto.caStudents admitted into the PhD program in September 2017 must have their Qualifying Exam by the end of March
Fri Mar 1	<ul style="list-style-type: none">OGS deadline for Visa students
Fri Mar 29	<ul style="list-style-type: none">Deadline for students who started in September 2018 and joined their lab in January 2019 to have their first Supervisory Committee Meeting.OGS deadline for Domestic students

April

Fri Apr 19	<ul style="list-style-type: none">For students obtaining degrees at June convocation, course work must be completed and grades submitted for full-year and Winter session coursesFinal date for receipt of degree recommendations and submission of any required theses for master's degree for June Convocation.Final date for submission of final doctoral thesis for students whose degrees are to be conferred at the June Convocation.*Students dually registered in the Winter session must be recommended for the master's degree by this date to maintain their PhD registration
Fri Apr 10	<ul style="list-style-type: none">Good Friday (University closed)
Tue Apr 30	<ul style="list-style-type: none">Payment deadline to avoid service charges on unpaid Fall/Winter session (September to April) tuition and non-tuition fee amounts for all students who have successfully registered without payment. Monthly service charges will incur starting May 15

May

May	<ul style="list-style-type: none">All M.Sc. students who started in September 2017 and wish to reclassify into the Ph.D. program must reclassify by the end of May
Mon May 6	<ul style="list-style-type: none">Final date to enroll in May-June or May-August session courses

Wed May 15	<ul style="list-style-type: none"> • Winter session grades available for viewing by students on the Student Web Service (ACORN)
Mon May 20	<ul style="list-style-type: none"> • Victoria Day; University closed
Fri May 24	<ul style="list-style-type: none"> • Final date to drop May-June F section courses without academic penalty.

June

June	<ul style="list-style-type: none"> • Students admitted into the PhD program in January 2018 must have their Qualifying Exam by the end of June. • June convocation information and dates are posted at www.convocation.utoronto.ca
Mon Jun 17	<ul style="list-style-type: none"> • Final date to drop May-August session Y section courses without academic penalty

July

Mon Jul 1	<ul style="list-style-type: none"> • Canada Day; University closed
Tue Jul 2	<ul style="list-style-type: none"> • Final date to enrol in July-August courses
Mon Jul 15	<ul style="list-style-type: none"> • Final date to drop July-august S section courses without academic penalty
Wed July 17	<ul style="list-style-type: none"> • Grades for May/June F section courses available for viewing by students on the Student Web Service (ACORN)

*A final thesis is the corrected, approved version of thesis which is submitted to ProQuest (formerly T-Space)

Dates and Deadlines for Rotations Students

Sep 6 - Oct 16, 2018	First Rotation
Oct 17 - Nov 15, 2018	Second Rotation
Nov 16 - Dec 21, 2018	Third Rotation
Dec 17, 2018	Students to advise Annette or Donna of their choices for their permanent lab placement
Dec 21, 2018	Students will be advised of their permanent lab placement
Jan 7, 2019	Placement with permanent supervisor begins
Jan 7 - Feb 11, 2019	Fourth rotation for any students who have not received a permanent lab assignment
April 2020	MSc students who started in September 2018 and wish to reclassify into the PhD program must submit Form 100 to Annette or Donna by April 2020
May 2020	Reclass examinations this month for students who started September 2018

NEW AND CONTINUING STUDENTS

Rotation Supervisors and Your First Day

All entering students (Biology, Physics, MSc and direct entry PhD) participate in the Rotations program. First year students should have received the supervisors' names for their first rotation during the summer. Students will choose the supervisor for their second rotation after the Geneva Park Rotations Market and will be able to choose their third rotation during the course of their second rotation. Students must be present in the lab for the duration of each rotation.

If the rotation is at SRI, please see Donna in room S655. If the student is at any other location, the student should go directly to the rotations lab/supervisor or the administrative assistant; who will help with the necessary paperwork on the first day. At Princess Margaret/PMCRT, the administrative assistant will help students obtain their Photo ID card, computer account, Occupation Health Assessment and Safety Training, key, elevator access card and any additional training that may be necessary. Students should keep in mind that when they complete each rotation, they will need to hand in their keys and access card, and obtain new ones at the next rotation.

Rotation students will receive one stipend payment in September, equal to 4 months of stipend administered via their ACORN/ROSI account with the University of Toronto. In order to receive the payment by direct deposit, it is important that both the student's mailing address and banking information is current in ACORN/ROSI.

For All New Students:

If students received other offers of admission from the University of Toronto, it is their responsibility to cancel those offers, because fees will be assessed for those programs. The *Cancel Program of Study* function is available on ACORN/ROSI (www.acorn.utoronto.ca).

September registrants will receive information on registration procedures in mid-July from the School of Graduate Studies (SGS). Graduate Students Information booklets will not be mailed for January registrants or current students. Please refer to <http://www.sgs.utoronto.ca> for instructions.

All students must attend General Lab Safety, Fire Safety and Radiation Safety seminars offered by their respective research institutes. Students should also drop by Chau Dang's office (PMCRT, Rm 15-707) to have their photo taken.

For All Returning Student:

An organizational meeting for returning students will be held on September 6th, 2018 at 10:00 am in PMCRT room 4-204 to provide a brief overview of the modules that will be offered in 2018-2019 and how to enroll. If you have questions about the curriculum, question about requirements for students that have taken courses under the previous curriculum, or anything else course related, this is an opportunity to ask.

MBP Student Orientation, Scholarship Workshop and New Student Social

There will be a Medical Biophysics New Student Orientation Session on Wednesday, September 5th 2018, at 10:00 am at Princess Margaret Cancer Centre, 610 University Avenue, 6th floor auditorium, room 6-604. **All new students must attend.** Returning students are also welcome to attend the session. The new students' group photo will be taken after the session. A Scholarship Workshop will follow the orientation. All new students should attend the Scholarship Workshop at 11:00 am in room 6-604, which is open to all MBP students. We encourage returning students to attend as well.

The Student Executive welcomes First-year MBP students! We invite all new MBP students to come and meet each other at our New Students Social, immediately following the Scholarship Workshop.

New Students Downtown

When students are assigned an email address, the student should send an email to Chau Dang (chau.dang@utoronto.ca) to update the student email distribution list. The Department encourages students to use their U of T account or the email account assigned by the research institute, rather than a personal account. Once the student's permanent supervisor/lab has been confirmed, the student should ensure that they see their Supervisor's administrative assistant for the New Hire package, keys (they may still have these from an earlier rotation in the lab), ID badge (students will need to hand in their old ID badge to the respective administrative assistant), new email accounts (unless the student uses their U of T account), etc. This is especially important if the student's permanent lab is at a different location from the one in which he/she started.

New Students at Sunnybrook Research Institute

Upon arrival in the Department, please see Donna Marie-Pow, S-wing, S655. Please email Chau Dang (chau.dang@utoronto.ca) with the utoronto or institute email address as soon it has been assigned, so that it can be added to the departmental email distribution list.

Using ACORN/ROSI (the Student Web Service)

Accessible Campus Online Resource Network (ACORN) is the new student web interface to the University's student information system. ACORN can be accessed at <http://www.acorn.utoronto.ca/> with a UTORid and password.

Services Available on Student Web Services (aka ACORN/ROSI)

- view/change both mailing and permanent addresses, telephone number, e-mail addresses (NOTE: It is the student's responsibility to keep this information up-to-date on ACORN)
- view final grades
- view academic history
- add/request/drop courses
- view current courses or course request status

- view fees account
- defer tuition fees
- set up direct deposit
- order transcripts (Students can also order transcripts from the University of Toronto Transcript Office, 100 St. George Street, Sidney Smith Hall, 1st Floor, Tel: 416-978-3384)
- order graduation tickets
- print T2202A tuition tax slips

T-Cards (Student ID/Library card)

All students are required to have a T-Card, which serves as student identification as well as a library card. Cards can be obtained at Koffler Student Services Centre, 214 College Street, Room 102. Students will need to show two pieces of identification: 1. student number or Letter of Admission or your UTOR/JOINID, 2. valid government issued photo ID (e.g. Driver's License) and 3. citizenship documents. Note, if the student already has a T-Card from their undergraduate program here at U of T, they do not need to obtain another T-Card. For further information and hours of service, please refer to: <http://tcard.utoronto.ca/>.

E-mail Accounts

The university offices will send students important information by email. Only email addresses ending in .utoronto.ca and toronto.edu are accepted on ACORN/ROSI. All other addresses (e.g. sickkids.ca, sunnybrook.ca, hotmail.com, gmail.com, etc.) are not accepted on ACORN/ROSI. Students can obtain a university based email account through <https://www.utorid.utoronto.ca/>. Students have the right to forward their University-issued electronic mail account to another email address but remain responsible for ensuring that all University electronic communications sent to the official University-issued account is received and read. For the complete policy on Correspondence with Students, please go to <http://www.governingcouncil.utoronto.ca/policies/studentemail.htm>.

GO Transit and TTC Discount

Go Transit

Registered full-time students can get their GO Student ID by bringing their T-Card to the T-Card Office at Koffler Student Services Centre, 214 College Street, Room 102.

TTC

The TTC will be issuing TTC Student ID cards on campus, please refer to <http://utsu.ca/office> for more information. Students can also obtain a card at Sherbourne station. The hours of operation of the Sherbourne subway station can be found at <https://www.ttc.ca>. This card is required to use the TTC Post-Secondary Student Metropass.

Shuttle Bus

A shuttle bus routinely runs between Sunnybrook Hospital and Women's College. This service is available to students who hold a Sunnybrook ID Badge.

Students without a Sunnybrook ID Badge who need to attend courses, seminars, etc., held at Sunnybrook, can see Donna (Sunnybrook) or Annette Chan (PMCRT) for a shuttle pass.

Graduate Student Union Health and Dental Plans

The Graduate Student' Union, University of Toronto (UTGSU) Health Plan automatically covers all full-time graduate students. The plan was designed to provide many important services and cover expenses not covered by basic health-care plans (OHIP, UHIP) such as prescription drugs, health practitioners, medical equipment, and travel health coverage. For more information on the benefits plan, please visit: www.ihaveaplan.ca. Students may opt out of the health and dental plans if they are covered by another comparable plan. Please visit: <https://www.utgsu.ca/insurance/> for information about opt-out deadlines.

REGISTRATION

All new and continuing students MUST REGISTER at the beginning of each academic year. Registration must be completed before students can attend classes or otherwise make use of university facilities. A student is considered to be registered as soon as all tuition and incidental fees have been paid, or appropriate arrangements for deferral of payment have been made. For more information on deferral of payment, please refer to the Fee Deferral Section of the handbook.

A late registration fee of \$44 will be charged for students registering after the September 15th deadline. Students will be required to register and pay the late fee at SGS after this date. Note, students who did not register by the deadline will not receive T2202A tuition credit for the month of September.

Continued Registration

All students in MBP must have a supervisor in order to continue their registration within our program. If students do not have a supervisor, their candidacy may be terminated / cancelled.

Essential Guide for Grad Students

The Essential Guide for Grad Students (EGGS) produced by SGS and the Office of Student Life, is a booklet for both new and continuing graduate students which contains information about registration, SGS awards, University-wide resources and much more. The 2018-19 booklets will not be mailed to continuing students. An electronic copy is available at <http://www.sgs.utoronto.ca/Documents/EssentialGuideforGrads.pdf>.

Fee Invoices

Students will be reminded by email of their account balance on ACORN and other important information that is required for registration. Students should be aware that they will still receive these emails even if their fees have been deferred.

Tuition and incidental fees for 2018-2019

Domestic and International PhD Students	\$8,489.52
International MSc Students	\$24,853.52*

*Includes University Health Insurance Plan (UHIP) insurance premium of \$624. UHIP is compulsory for all international students as well as recent permanent residents and returning Canadian Citizens who are in their 3 months OHIP wait period. For more information, see <http://www.fees.utoronto.ca/>.

VISA students

VISA students are responsible for paying from their stipend only the portion equivalent to the domestic student tuition fee*. The difference between the visa and domestic tuition fee (known as the visa tuition differential) is paid by the Department and supervisor as follows: the Department will pay 50% of the differential and the student's health insurance premium for 2 years for MSc students. During these periods, the remaining 50% of the differential fee and the student's health insurance premium are paid by the supervisor. After 2 years (MSc students), the supervisor will be responsible for 100% of the fee differential and the student's health insurance premium. It is the student's responsibility to pay their tuition. The MBP office will apply the departmental contribution directly to the student fees' account on ACORN before March 2019.

At no time will the student be responsible for more than the current Domestic tuition fee unless the student is the recipient of the **Ontario Trillium Scholarship valued at \$40,000. This scholarship is awarded to international students and explicitly states that students must pay their international tuition fees from this scholarship.*

All VISA students must apply for an Ontario Graduate Scholarship (OGS). Their applications will be ranked by the MBP Scholarship Ranking Committee, which will also give the VISA student the opportunity to be considered for an MBP Excellence Award.

Fee's Invoice

By the end of August, if a student's financial account does not reflect the amount owed for tuition, it may be due to one of the following reasons:

- The student's mailing address (both current and permanent) are not up-to-date or are incorrect in ACORN/ROSI (fees accounts may be viewed in ACORN/ROSI) www.acorn.utoronto.ca/
- The student is continuing and the conditions have not been cleared from the previous year.

- The student is continuing and entering the 4th year of a PhD and has not completed all required courses.
- The student is continuing and their registration has lapsed because they have reached the registration time limit.
- The student is new and the conditions of admission have not been cleared.

Fee Payment

It is recommended that students pay fees or make fees arrangements by **August 25th** to ensure that the payment or fees arrangement is processed by the deadline of September 15th. Instead of being asked to complete a paper form to be submitted in person or by email to SGS, students are now able to complete an online form and submit the \$44.00 late fee electronically using their credit card.

Students may access the SGS Portal through the following link: <https://apps.sgs.utoronto.ca>. Once there, you will be asked to login using their UTORid, and start a new form which will be pre-populated with their degree information from ROSI. Once submitted, the SGS academic student services team will electronically receive the request and change the student's registration status from "FINCA" to "INVIT".

Register Without Payment (Fee Deferral)

All MBP students may register without payment (fee deferral) through ACORN/ROSI if the student has no outstanding fees from a previous session.

Please note the following information from Student Accounts:

- Students must make a payment to receive the tuition credit for income tax purposes. The Income Tax Act requires that the University receipt the payments for the tax year in which the registration took place, so payments applied to the fall 2018 session will be receipted on a T2202A for 2018 and payments applied to winter 2019 session charges will be receipted on a T2202A for 2019. If students make a payment to cover the fall session charges by December 2018, they will receive the tax credit on their T2202A for 2018 which will be issued in early/mid February.
- All accounts must be paid in full by April 30, 2019. Effective May 1, 2019, academic sanctions are applied for outstanding accounts, which means transcripts are blocked. Service charges will also begin in May (take into account that it takes anywhere between 3-7 business days for the payment to reach the university).
- Students are encouraged to make monthly installments towards their account to spread the financial impact of fees.
- Students will periodically receive email notices from Student Accounts regarding an outstanding balance until the balance is paid in full even if the fees are deferred.

Failure to Register

Students will not receive credit for work completed during a session in which they have not registered. Students who fail to register during a program requiring continuity of registration and who do not have an approved leave may only apply to re-register if, at the time of application, they are still within the maximum allowable time for the degree program (normal time limit plus maximum extension years). A student wishing to re-register must apply to the relevant graduate unit. Reinstatement requires approval from both the graduate unit and SGS. The program's normal requirements and time limits will apply to reinstated students as if they had been continuously registered; reinstated students must pay fees owing for any session(s) in which they did not register. Non-registered students forfeit any funding that would have been available had they been registered.

Extension of Time for Completion of Degree Requirements

Master's Students

In exceptional circumstances, a master's student who did not complete all the requirements for the degree within the time limit specified in the degree regulations may be considered for a maximum of three one-year extensions provided that the graduate unit concerned so approves. The first two extension requests require departmental approvals; the third requires departmental and School of Graduate Studies approvals.

To apply for an extension, the student must complete the Program Extension form and present to the graduate unit concerned the causes for the delay. If an extension request is made for a third and final extension, the student and the department must each provide confirmation that the degree requirements can be met within the time limits of the final extension. No registration beyond the extension period will be permitted.

Doctoral Students

In exceptional circumstances, a doctoral student who has not completed all the requirements for the degree within the time limit for the doctoral degree is eligible to apply for four One-year extensions. The first two extension requests require graduate unit approvals; the second two require graduate unit and School of Graduate Studies approvals.

To qualify for an extension, the student must complete the Program Extension form and present to the graduate unit concerned the causes for the delay. If an extension request is made for a fourth and final extension, the student, the supervisor, and the department must each provide confirmation that the degree requirements can be met within the time limits of the final extension. No registration beyond the four-year extension period will be permitted.

STIPENDS, AWARDS, FELLOWSHIPS AND SCHOLARSHIPS

Stipends

All graduate students in MBP are guaranteed a minimum stipend. The minimum stipend is comprised of living allowance and tuition. The supervisor is responsible for ensuring that this support is received. The student living allowance is increased by 2.0% in 2018-2019.

2018-2019 Student Base Funding

Domestic			International	
MSc	PhD		MSc	PhD
18,635.00	20,706.00	Living Allowance	18,635.00	20,706.00
8,489.52	8,489.52	2018-19 Tuition Fees	24,229.52	*8,489.52
N/A	N/A	UHIP	624.00	624.00
27,124.52	29,195.52	Total (Base Funding)	43,488.52	29,819.52

*Effective Fall 2018, International PhD students are subject to the same tuition fees as domestic PhD students.

All paid as T4A income.

The stipend for students who are in program extension will be:

- MSc - \$23,675 (\$18,635 living allowance plus 50% tuition and incidental fees);
- PhD - \$25,746 (\$20,706 living allowance plus 50% tuition and incidental fees)

All students are expected to apply for external and internal scholarships to offset the cost of their stipend to their supervisor. Those who are successful in obtaining certain competitive external awards (e.g., CIHR and NSERC) will receive an additional 'top-up' to their stipend, currently set at \$4,000. If, however, the scholarship (e.g., a Canada Graduate Doctoral Scholarship) is of greater value than the minimum stipend plus the top-up, the student will keep the full value of the award as stipend. At present, the highest award stipend is the Vanier Scholarship at \$50,000 per year.

Top-Up Practices

Most awards that require student applications are eligible for a top-up from their supervisor. For a list of Awards Eligible for Top-up, please go to <http://glse.utoronto.ca/graduate-student-financial-support>
The top-up amounts are as follows:

Award Amount	Top-Up*
\$0.00 to \$2,000	There will be no top-up but the student gets to keep the award(s), up to a combined maximum of \$2,000. The amount of the award will not be deducted from the base funding.

Between \$2,001 to \$15,000 (cumulative awards)	Award goes towards the base funding and the student receives a \$2,000 top-up over their base funding.
Over \$15,000 (cumulative awards)	Award goes towards the base funding and student receives a \$4,000 top-up over their base funding.

***Note:**

- Within an academic year, the total cumulative top-up maximum is \$4,000. That is, if a student holds an award between \$2,001 to \$15,000 and also an award over \$15,000, their total top-up is \$4,000.
- Top-up eligibility excludes University of Toronto Fellowship (e.g, UTF Open), Doctoral Completion Awards, Departmental osotf awards, and bursaries.
- Payment of top-ups will occur annually for the duration of the award. Thereafter, the student will revert back to the appropriate base graduate student funding pacage amount.
- A student, who receives award(s) exceeding the amount equivalent to the base funding and top-up, will not be eligible to receive a top-up for these award(s).

Funding Term

In general, a student who remains “in good standing” will be funded for the duration of the program. MSc students are normally expected to complete and defend their thesis within 2-3 years. PhD students are expected to complete and defend their thesis within 5-6 years. If a student accepts full-time employment, the stipend is terminated. As well, students are expected to be present full-time in their lab unless special permission is granted from the supervisor.

Awards (OGS, CIHR, NSERC, etc.) cannot be held in the 3rd year of the MSc program. Please check the requirements of the funding agency. Once the supervisory committee has agreed that the student has completed all necessary laboratory experiments needed for writing their thesis, MSc students will have a maximum of 4 months and PhD students a maximum of 6 months in which to write the thesis and schedule the defense. The stipend will continue to be paid to the student during this period. If the thesis is not completed within the four or six months, as described above, the student must apply to the Chair for an extension. The continuation of stipend payments is not guaranteed, but is at the discretion of the supervisor and Department. In the event that the stipend payment continued until the examination, the student can expect the stipend to terminate one month after the examination.

Stipend Notices

In August every year, the MBP Departmental office sends out stipend notices via email to all students, with copies to their supervisors, and administrators, indicating their stipend and explaining its sources.

Employment - Supervisors

A student cannot be an employee of their supervisor or member of the supervisory committee before completing their degree. A degree is considered complete when the student has successfully defended and submitted a final thesis to ProQuest.

Scholarships & Awards

All MBP students are encouraged and expected to apply for external and internal scholarships for which he or she qualifies: please check each award for its eligibility criteria. External awards both offset the Department's and the supervisor's support of the stipend, and can also result in an increase to the student's stipend, which is quite substantial.

Note that internal awards granted by the Department are based on a ranking of the OGS, CGS Masters and NSERC applications. ALL ELIGIBLE students for OGS, CGS Masters and NSERC must apply. Students who are not successful in obtaining these competitive awards are automatically considered for an internal award such as the MBP Excellence Award. Students who do not apply for OGS, CGS Master's or NSERC are not ranked and are not eligible for these internal awards. It is therefore very important to apply to OGS, CGS Masters and NSERC.

Most awards are for the full academic year (Sept 1 – Aug 31) and are paid in three installments. Students should seek awards for this period. If the student completes the program early (before Aug. 31) or leaves the program, the student will be required to pay back a partial or full amount of the award.

Scholarship/Awards which require application by the student

Agency	Deadline	Where	Website
Vanier	Mon Sep 10	MBP Office	http://www.sgs.utoronto.ca/currentstudents/Pages/Vanier-Scholarship.aspx
NSERC Doctoral Award	Fri Sep 28	MBP Office	http://www.nserc-crsng.gc.ca/
CIHR Doctoral Award (PhD students only)	Tues Oct 2* *(Sept 25 is MRA deadline)	CIHR ResearchNet	www.cihr.ca
CGS Masters Award (CIHR/NSERC)	Sat Dec 1	Application closes to students	http://www.sgs.utoronto.ca/currentstudents/Pages/CGS-M.aspx
OGS (Visa Students)	Fri Mar 1	MBP Office	http://www.sgs.utoronto.ca/currentstudents/Pages/Ontario-Graduate-Scholarship.aspx
OGS (Domestic Students)	Fri Mar 29	MBP Office	http://www.sgs.utoronto.ca/currentstudents/Pages/Ontario-Graduate-Scholarship.aspx
QEII-GSST (formerly OGSST)	March 2019	GLSE	http://www.glse.utoronto.ca/graduate-student-financial-support

SGS offers scholarship workshops for NSERC and CIHR. When these workshops are announced, emails will be sent to all students.

NSERC (Natural Science and Engineering Research Council)

Postgraduate scholarships are available to students in three categories: CGS M, PGS D and CGS D. CGS M scholarships (valued \$17,500) are for a maximum duration of 12 months and must be held during either the first or second years of graduate study. PGS D scholarships (valued at \$21,000 / year) are for a maximum duration of 36 months and must be held during either the third and fourth years of graduate study or the fourth and fifth years of graduate study. Current NSERC CGS D awards are for \$35,000 / year.

CIHR (Canadian Institutes of Health Research)

Applicants must be Canadian citizens or permanent residents and have been registered for no more than ten months at the Master's level; and/or have been registered for no more than ten months as a full-time PhD student if admitted to the PhD program directly from an undergraduate degree. Applicants may not have already held an award from SSHRC, NSERC, CIHR or any other federal source for MSc or PhD degree. For the PhD awards, the maximum duration of award funding from all federal sources to undertake graduate studies is four years, including a maximum one year at the Master's level. Current CIHR CGS D awards are for \$30,000, with some additional funding for travel and laboratory expenses.

OGS (Ontario Graduate Scholarship)

MBP students are eligible to hold an OGS award during their first two years of MSc studies and during their first five years of PhD studies. Doctoral students who are beyond their 5th year cannot hold an OGS award in MBP.

QEII-GSST (formerly OGSST (Ontario Graduate Scholarship in Science and Technology/Sunnybrook Health Sciences Centre))

This award is available to students *located at Sunnybrook*. Students who applied for an OGS will be considered automatically. Details of eligibility are the same as for an OGS. QEII-GSST is eligible for top-up money.

OSOTF (Ontario Student Opportunity Trust Funds)

This is a class of awards which have resulted from Ontario government's "matching" program, under which endowments for student assistance have been matched by the government as well as the University. Recipients must be Ontario residents and demonstrate financial need.

The Doctoral Completion Award

The Doctoral Completion Award is available to help meritorious PhD students who are beyond the normal funding period to complete their degree program within the degree time limit. Students may receive a Doctoral Completion Award only once during their program. To be eligible, a student must be granted permission to "write-up" their thesis as indicated on supervisory committee report. Other criteria include: academic merit and quality of research, the availability of alternative funding, and, if appropriate, special aspects of the research program that require more time than usual. As MBP provides a guaranteed stipend from Years 1-5, only students in Year 6 of their PhD studies are eligible

for a Doctoral Completion Award and cannot be concurrently holding a paid continuing professional position. Students who are on an approved program extension are NOT eligible for DCA awards.

Students who have experienced a delay in their program due to special personal circumstances are referred to the Emergency Grant program at the School of Graduate Studies. The application form is available on the SGS website www.sgs.utoronto.ca.

MBP Student Travel Awards

The Department of Medical Biophysics has established the Student Travel Award. All students studying for a degree in Medical Biophysics whose supervisor's graduate appointment is in Medical Biophysics are eligible to apply. The department will sponsor a maximum of 16 awards per year (a maximum of 8 awards every six months: July 1 to Dec 31 and Jan 1 to June 30).

The MBP Student Travel Award supports MBP students to travel to academic meetings that will enhance their research training. Reimbursement will be awarded for expenses related to travel to national or international conferences at which the student presents his or her work. For more information, please refer to <http://medbio.utoronto.ca/content/forms>.

Scholarships/Awards which require nomination by the Department

Connaught Scholarships

Ontario Trillium Scholarships

Medical Biophysics Excellence Awards

All MBP students with an A- average who applied for a competitive scholarship are eligible for MBP Excellence Awards. Eligible students are considered by the MBP Scholarship Committee on the basis of the ranking of their OGS application. All students are therefore strongly recommended to apply for an OGS award each year, so that they may be eligible for an MBP Excellence Award.

Scholarship Payments

- Award payments (for internal and external awards) will be directly deposited into the student's bank account upon registration via the Student Web Service (<http://www.acorn.utoronto.ca>) or, if the student chooses not to have direct deposit, a cheque will be mailed to the student by Student Accounts.
- To ensure that the student receives their award payments in a timely fashion, please be reminded of the following:
 - Students must have a status of REG on ACORN/ROSI.
 - Students must have BOTH their Mailing Address and Permanent Address up-to-date on ACORN/ROSI.

ACORN/ROSI will NOT process a student's award installment unless the student's ACORN/ROSI "Mailing Address" is active.

Please NOTE:

September installments will be paid directly to the student. January and May installments will have outstanding tuition fees deducted first, and the remaining amount will be paid to the student.

For more updates on awards information, please visit <http://medbio.utoronto.ca/content/awards-and-scholarships>.

Other Awards

SGS Restricted Awards are posted online at the SGS website <http://www.sgs.utoronto.ca/currentstudents/Pages/Internal-Awards.aspx>.

OSOTF'S, e.g., the Joseph Bazyewicz Fellowship, the Agnes M. Freland Award, and the Kwok Sau Po Scholarship, are only available to students with Canadian citizenship or permanent residence status.

Faculty of Medicine OSOTF awards and Restricted Awards Competition

Applications will be made by electronic submission via an online application system

Information is available at: <http://www.glse.utoronto.ca/faculty-wide-osotf-and-other-endowed-awards>.

These awards include the Dr. Joe A. Connolly Memorial Award, The Frank Fletcher Memorial Fund, Peterborough K.M. Hunter Graduate Scholarships, etc

Faculty of Medicine QEII-GSST Competition

There are generally 2 lists of QEII-GSST awards

(1) List A consists of QEII-GSST's open to everyone. Applications are sent directly to the Faculty of Medicine. The deadline is March 2019.

(2) List B consists of Departmental OGSST (QEII-GSST) awards. These are only available to students at SRI. The deadline is March 2019.

Students must submit a complete OGS application. More information is available at

<http://glse.utoronto.ca/fom-qeii-gsst-competition>.

Students cannot hold an OGS award and any other government funded award.

Awards Activation

NSERC PGS D and CGS D recipients must submit their payment activation form to SGS - Form 1B, Parts I & III and a copy of their award letter.

OGS, Vanier, QEII-GSST and CGS Masters Award recipients must submit the online SGS Award payment activation form at <https://apps.sgs.utoronto.ca/>.

Graduate Student-Supervisor Agreement

Completion of the Graduate Student-Supervisor Agreement is required annually, prior to initial and annual enrollment, for all doctoral (MSc or PhD) students admitted to Graduate Departments in the Faculty of Medicine. The Agreement outlines the following policies:

- General Conditions of Supervision
- Research Safety and Ethics
- Intellectual Property
- Graduate Student Stipend

In September students will receive an email inviting them to review their agreement at <http://www.glse.utoronto.ca/graduate-education-management-system-gems>. It is very important for students to review the policies in this agreement with their supervisor.

CURRICULUM & COURSE CREDIT REQUIREMENTS

The curriculum is structured as course modules and full-length courses. A course module is 7 weeks in duration and will typically have one 2-hour lecture per week for 6 consecutive weeks. Some modules will also include a written exam (in week 7), seminar presentation, or a lab.

Overview of requirements:

MSc: 6 modules (1.5 credits) + MBP1015Y Biophysics Seminar course (1 credit) = 2.5 credits

PhD: MSc requirements plus an additional 4 modules (1 credit) = 3.5 credits

Course enrollment and grading:

Each two modules completed is worth 0.5 credit and will appear on the student's transcript as a 0.5 credit course (MBP1101H, MBP1102H, MBP1103H, MBP1104H, or MBP1105H). It is essential that a student enroll in both the MBP course, using ACORN/ROSI, and for the corresponding modules, using the module enrollment forms (details to be provide at the information session). The average of the numerical grades obtained in the two modules will determine the grade for that course that will appear on the student's transcript.

MSc Requirements for students starting in September 2018:

- MBP 1015Y Biophysics Seminar (this is a continuous course which students must attend until their degree is completed)
- 6 modules selected as follows:
 - Biostatistics is required
 - Scientific Exposition & Ethics is required.
 - Choose one *biology stream course module* (see Appendix A) or a 0.5 or 1 credit graduate course chosen in consultation with the department that provides a foundation in biology. One such substitute is *JNR1444Y - Fundamentals of Neuroscience: Cellular and Molecular* (see course alternates section below). Students whose undergraduate

training is not in the biological sciences may choose the course module *Cell & Molecular Biology for Physicists – Introduction* to fulfil this requirement.

- Choose the balance from: MBP physics or biology course modules; or department approved graduate courses in another department (0.5 credit = 2 modules).

For example, a MSc student with an interest in cancer biology might choose to complete the required and elective course requirements as follows:

- MBP1015Y Biophysics Seminar Course - 1.0 credit (enroll 2018-2019)
- MBP1101H Modules in Medical Biophysics I - 0.5 credit (enroll 2018-2019):
- *Scientific Exposition & Ethics – required (offered in fall)*
 - *Introductory Biostatistics – required (offered in fall)*
- MBP1102H Modules in Medical Biophysics II - 0.5 credit (enroll 2018-2019):
- *Experimental Models for Cancer Research (offered 2018-2019)*
 - *Predictive Oncology & Therapeutics (offered 2018-2019)*
- MBP1103H Modules in Medical Biophysics III - 0.5 credit (enroll 2019-2020):
- *Biological Imaging (offered every year)*
 - *Tumour Microenvironment (offered 2019-2020)*

Similarly, a MSc student with an interest in medical imaging might choose to complete the required and elective course requirements as follows:

MSc: 2.5 credits which must include the following core course and core modules:

- MBP1015Y Biophysics Seminar Course - 1.0 credit (enroll 2018-2019)
- MBP1101H Modules in Medical Biophysics I - 0.5 credit (enroll 2018-2019):
- *Scientific Exposition & Ethics – required (offered in fall)*
 - *Introductory Biostatistics – required (offered in fall)*
- MBP1102H Modules in Medical Biophysics II - 0.5 credit (enroll 2018-2019):
- *Overview of Medical Imaging (offered every year)*
 - *Cell & Molecular Biology for Physicists – Introduction (offered every year)*
- MBP1103H Modules in Medical Biophysics III - 0.5 credit: (enroll 2019-2020)
- *Ultrasound Overview (offered every year)*
 - *Advanced Ultrasound (offered every year)*

PhD Requirements for students starting in September 2018:

Requirements for the PhD are all of the requirements of the MSc plus the equivalent of 4 modules selected from the following:

- MBP biology or physics course modules*
- Department approved graduate courses in another department (0.5 credit = 2 modules)
- MBP1023H Clinical Radiation Physics and Dosimetry (0.5 credit = 2 modules)

*Please enroll in MBP1104H Modules in Medical Biophysics IV (0.5 credit = 2 modules) and MBP1105H Modules in Medical Biophysics V (0.5 credit = 2 modules)

Withdrawing from a Module

Students can withdraw from a module up until the end of the 3rd class or as long as no more than 50% of the module has been completed. While many instructors and programs consider it best practice to provide students with an interim evaluation of their performance in the course prior to the drop date, this is not a requirement for graduate courses (as per the University Assessment and Grading Practices Policy 2012). To request withdrawal from a module, please email the respective Module Coordinator and cc Chau Dang (chau.dang@utoronto.ca).

Policy for students receiving a failing grade in a module

Under the modular curriculum, students will enroll in 0.5 credit courses and select two modules for each course in which they enroll. The modules corresponding to a given course are chosen in advance and cannot be retrospectively reassigned to another course for the purpose of grading. The grade that a student receives in a course will be the average of the grades received for the two modules. In the case where a student receives a failing grade in a module (less than 70%), the grade for that course will be 'in progress'. To complete the course, the student will need to retake the module or, if that module is not offered the following year, another module. If the student passes this module, the initial failing grade will be ignored and the grade for the course computed normally. If the student fails the module (or its replacement) again, the student will be assigned a failing grade for the course.

Missing Exam or Assignments

Medical Biophysics follows the SGS policy as follows:

Exceptional Circumstances Affecting Student Performance Students with health problems or other personal circumstances which may adversely affect their performance in, or their ability to complete coursework, examinations, or other departmental or graduate program assessments may request special consideration. Written requests, supported by a medical certificate or other appropriate evidence, must be submitted to the instructor or the Coordinator of Graduate Studies as soon as possible or no later than two business days following the deadline or date of assessment. If a medical certificate is submitted, it must confirm the student was adversely affected by health problems and must show the dates of illness and that the physician was consulted at the time of the illness. If a student is affected by health problems or other personal circumstances during an examination that affect the completion of the examination, the student must notify the instructor or invigilator immediately; that is, the student should not wait until the end of the examination. Such notification must be followed up with a written request for special consideration as above.

Module availability

All biology course modules will be offered in alternate years. A core set of physics course modules is offered every year while more specialized topics will be offered in alternate years or based on student and faculty response to the new curriculum.

Module selection is available to students via <https://www.surveymonkey.com/r/TZ7N8H3>

Time Limit to Complete Coursework

Direct entry PhD students must complete all required courses by the end of their third year in the program. For example, students who started in September 2018 must complete course requirements by August 2021. Those whose coursework is not completed by this time are required to complete the “Request for Extension to Achieve Candidacy” form. Failure to do so may result in termination of registration by the School of Graduate Studies.

Students who reclassified into the PhD Program have 4 years to complete the required coursework. Those whose coursework is not completed by this time are required to complete the “Request for Extension to Achieve Candidacy” form. Failure to do so may result in termination of registration by the School of Graduate Studies.

Full length courses:

MBP 1015Y Biophysics Seminar Course

- The Biophysics Graduate Student Seminar Course is a core course for all students and continues throughout the program. It is held at two locations. Credit is given on the basis of a graded seminar and on attendance of the student at the weekly seminars. This attendance is mandatory: students should note that failing this course through lack of attendance in the series may result in failure to obtain a degree.
- MSc students are required to give a seminar in both their first and second years. However, only the second year seminar will be graded. The Course Coordinator will give critical feedback from faculty to the student following all seminars.
- Students are asked to complete an evaluation form when they attend the seminar. This form includes space for feedback, which is compiled and given to the presenter.
- MSc students must be registered in MBP1015Y for the duration of their degree studies.
- All MBP students will receive a credit for MBP1015Y, including direct entry PhD students.
- PhD students who have completed the MSc degree in the Department or who have reclassified to the PhD program, no longer need to enroll in MBP1015Y, but are required to attend all seminars and give at least one seminar themselves
- PhD students who are Direct Entry (who do not yet have a credit for this course) need to enroll.
- Direct Entry PhD students give a seminar in year 2 and will be graded.
- All PhD students give a seminar in year 2.

**Attending the weekly Graduate Student Seminars
is mandatory for all students!**

MBP1023H Clinical Radiation Physics and Dosimetry

This course is designed to serve as a comprehensive introduction to the physics of radiation, their interaction with matter and the calculation/estimation and measurement of absorbed dose. This is usually considered the "bread and butter" for students pursuing a career in Clinical Medical Physics. However, we will also discuss modern applications outside dosimetry, such as in Medical Imaging. This course does not cover biological implications of radiation dose in living matter (radiobiology). Students are evaluated on the basis of a mid-term, final exam and class participation.

Course alternates

Graduate students at the University of Toronto can take graduate courses offered in any department, subject to availability and approval of their home department; the latter is given by the MBP graduate coordinators (Dr. Anne Martel or Dr. Razq Hakem) on a case-by-case basis with approval of the student's supervisor and the course coordinator. Please provide Annette (Downtown Students) or Donna (Uptown Students) with a copy of the required approvals. If the student misses the deadline for course registration online, they will need to fill out an Add/Drop Course form

<http://www.sgs.utoronto.ca/Documents/Add+Drop+Courses.pdf>.

Some examples of courses that may be of interest to MBP graduate students are listed below.

Courses that fulfill specific requirements of the curriculum such as [biology foundation] are noted.

1. *JNR1444Y – Fundamentals of Neuroscience: Cellular and Molecular* [biology foundation]
2. *JEB1365H – Ultrasound: Theory and Applications in Biology and Medicine*
3. *BME1460H – Quantitative Fluorescence Microscopy: Theory and Application to Live Cell Imaging*
4. *JYG1555H – Advanced Topics: Cellular and Molecular Neurobiology*
5. *PSL1026H – Advanced Topics: Experimental Cell Physiology*
6. *CSC2515H – Introduction to Machine Learning*
7. *PSY5110H – Advanced Topics in Behavioural Neuroscience: Imaging Techniques in Preclinical Research*
8. *MSC1006H - Neuroanatomy – Introduction to Anatomical Organization of the Brain*
9. *PSY4706HS - Human Brain Anatomy*
10. *MSC1087H - Neuroimaging Methods using Magnetic Resonance Imaging*
11. *STA2005H - Applied multivariate analysis*
12. *STA4273H – Large Scale Machine Learning*

Undergraduate Courses

Graduate students may take undergraduate courses with the approval of their supervisor. These courses cannot interfere with research work. Students do not need to fill out a "Add/Drop Course Form". Undergraduate courses will not be counted towards the credit requirements for the student's degree. These grades will be recorded as an extra course on the student's transcript and the grades will be applied toward the student's GPA. As with graduate level courses, any grade below 70% is considered a fail.

COURSE ENROLMENT

To enroll in courses, students must request courses on ACORN/ROSI. Instructions are available at <http://medbio.utoronto.ca/content/course-enrolment>. Students who do not register (pay or defer fees) by the deadline will be removed from their course registration. Courses such as RST9999Y and the seminar course, MBP1015Y are preloaded and requests are not necessary. Students should check ACORN/ROSI to make sure they are enrolled in these two courses.

If students encounter difficulty when enrolling in their courses, they should contact either Donna (uptown students) or Annette (downtown students).

RESEARCH SAFETY AND ETHICS

Research involving human subjects, experimental animals, radioisotopes and/or bio-hazardous agents must have formal protocol approved by the research institution (University or affiliated teaching hospital). These protocols must be available to and adhered to by the student.

Research Involving Human Subjects/Animals/Radioisotopes/Bio-hazardous Agents: See <http://www.sgs.utoronto.ca/facultyandstaff/Pages/Research-Involving-Human-Subjects.aspx>

Ethics workshop

The Office of Graduate and Life Sciences Education (GLSE) will hold its annual Research Integrity Workshop for first year research stream MSc and PhD students. It is mandatory for all students to attend an ethics workshop during the student academic career. Two separate sessions will be offered in Fall 2018; you are only required to attend one session.

- October DATE TBA
- November DATE TBA

For more information and to register, please visit: <http://www.glse.utoronto.ca/integrity-graduate-student-research-%E2%80%93-ethics-focus>

SAFETY ABROAD

The University of Toronto considers activities to be sponsored by the institution when students are conducting research or gaining credit, obtaining funding for their time abroad, or if the activity is sanctioned by the University. Registration with the Safety Abroad Office is a mandatory condition of your participation in U of T travel. Please make sure that you have completed the following steps at least 1 month prior to departure:

- Attend a Safety Abroad Workshop (valid for 18 months)
- Submit a travel waiver package
- Obtain or confirm travel health insurance coverage
- Fill in or update your profile on the Safety Abroad Database

For more information, visit the Safety Abroad Office website at

<http://www.studentlife.utoronto.ca/cie/safety-abroad>

COLLABORATIVE PROGRAMS

The department participates in a number of collaborative programs designed to develop and integrate graduate training in multidisciplinary fields across various departments. Students who enroll in a collaborative program are expected to fulfill the course requirements of both the collaborative program and the home department. However, it is anticipated that in most cases, coursework required by the collaborative program will serve to fulfill, in part, departmental requirements. For example, a neuroscience course offered as part of the CPIN program could fulfill for the requirement that a student complete at least one MBP module with a biology focus. Enrolling in a collaborative program increases the total number of course credits required, as students need to complete the required MBP credits in addition to those required for the collaborative program. Students will receive a notation on their transcript upon successful completion of the program. For more information regarding eligibility and enrollment procedures, please refer to the websites below.

Collaborative program in Biomedical Engineering:

<http://www.ibbme.utoronto.ca/students/graduate/prospective/collaborative-specialization/>

Collaborative program in Cardiovascular Sciences:

<http://www.cscp.utoronto.ca/>. Participating faculty within MBP:

- C. Macgowan
- P. Marsden
- A. Moody
- G. Wright

Collaborative program in Genome Biology & Bioinformatics:

<http://www.biochemistry.utoronto.ca/cgb/>. Participating faculty within MBP:

- C. Arrowsmith
- L. Attisano
- A. Chakrabartty
- A. Edwards
- B. Haibe-Kains
- M. Ikura
- I. Jurisica
- L. Lilge
- G. Privé
- M. Taylor
- J. Woodgett

Collaborative program in Human Development

<http://ahd.utoronto.ca/>

Collaborative program in Neuroscience:

<http://www.neuroscience.utoronto.ca/>. Participating faculty within MBP:

- J. Chen
- P. Fraser
- S. Graham
- M. Henkelman
- K. Hynynen
- J. Lerch
- L. Lilge
- B. MacIntosh
- B. Nieman
- J. Sled
- G. Stanisz
- B. Stefanovic
- S. Strother
- U. Tabori
- D. van der Kooy
- J. Woodgett
- S. Wong

THE SUPERVISORY COMMITTEE

General Conditions of Supervision

Both supervisor and student are required to read their Graduate Department's policies pertaining to their degree program, supervision and student funding.

Supervisor's Responsibilities

- The supervisor will direct the graduate program of the student, facilitating timely completion of research writing and defense in accordance with Department guidelines.
- The supervisor is expected to provide mentorship and serve as an academic role model.
- The supervisor and student together will recruit appropriate members for the graduate program supervisory committee.
- The supervisor will ensure appropriate continuing supervision of the student during any leave of absence by the supervisor from the University, e.g., sabbatical.
- For more information, please refer to the School of Graduate School Graduate Supervision Guidelines

Student's Responsibilities

The student is responsible for becoming familiar with and adhering to the rules, policies and procedures of the Department, the School of Graduate Studies and the University.

<http://www.sgs.utoronto.ca/innovations/bestpractices/Pages/Section-1--Introduction.aspx>

- The student is responsible for preparing a research plan in consultation with their supervisor, and meeting and reporting to the supervisor regularly.
- The student must continue to make adequate progress toward degree completion, documented by reports from the Supervisory Committee.
- In the Department of Medical Biophysics, the recommended time to completion of the MSc is 2 years and for the PhD (including time before reclass) the recommended time is 5 years, including the time for thesis preparation and the final thesis defense.

Purpose of Supervisory Committee

The Supervisory Committee assists in the recommendation of courses, advises on the proposed research project and monitors the progress of the student in the project. In addition to advising the student, the Committee has the responsibility of protecting the student's interests in completing his or her degree in a timely manner. Should, for example, a research project not progress satisfactorily, the Supervisory Committee may recommend a shift in scientific direction or a new approach to the supervisor and the student. Students are encouraged to communicate informally on a regular basis

with the members of their Supervisory Committee. It is also encouraged, especially in later stages of the program, for the Committee to discuss the student's career aspirations.

The Committee has the responsibility of ensuring that the student completes the program in a timely manner. Committee meetings should take place on a regular basis: at least once every 6 months for MSc students, once every 12 months for PhD students, and once every 6 months for PhD students who have been in the program for more than 4 years. However, a supervisory committee could recommend a meeting at an earlier time, in which case, the student will schedule an earlier supervisory committee meeting accordingly. If a meeting has not been held in the past 6 months for an MSc student or the past 12 months for a PhD student, the Committee must note the reason for the delay on the Supervisory Committee Report. Students should note that they are responsible for holding regular meetings of their Supervisory Committee. In extreme cases where a meeting is more than one year overdue, the student may be denied registration.

Should problems arise in a project, the Supervisory Committee may follow one of several routes. It may request that another meeting be held within a short interval of time, such as three months. It may recommend that the student change projects, or even supervisor. It can recommend that the Committee be enlarged to include additional members with particular expertise to evaluate the progress and problems associated with the project.

Composition of Supervisory Committee

The supervisor and at least two additional faculty members are chosen by agreement of the supervisor and student. The Supervisory Committee members must be U of T graduate faculty members; at least one (other than the supervisor) must have a primary appointment in MBP. One member must be at arm's length and not a collaborator with the supervisor. Please check the School of Graduate Studies website: <http://www.sgs.utoronto.ca/facultyandstaff/Pages/Faculty-Members-A-Z.aspx> for a list of appointed faculty. A member on the committee who is outside MBP, must have a University of Toronto, School of Graduate Studies (SGS) graduate appointment. Please indicate the department of the non-MBP faculty member. It is recommended not to have a Committee (including supervisor) larger than 3 as it can be very difficult to schedule committee meetings with all of the members present. Faculty outside the University of Toronto may participate in student Supervisory Committees, but only in an advisory capacity. They will have no voting privileges at examinations.

Students who wish to have their committee include a member who does not have an appointment to MBP are asked to provide the following information:

1. Does he/she have an appointment to SGS?
2. What department is he/she with?
3. Link to his/her website
4. A brief paragraph describing the expertise he/she will bring to the committee

A Chair or Graduate Coordinator must approve all Supervisory Committees prior to the first meeting. Please submit the list of Supervisory Committee members via e-mail to either Daphne (Downtown students) or Donna (Uptown students) as soon as possible.

Frequency of Meetings

It is imperative that all students have their first committee meeting within 3 months of assignment to a permanent lab. This introductory meeting is very important, as its primary objective is to define a research project and agree on an experimental plan.

Subsequent meetings should take place on a regular basis: every 6 months for MSc students and every 12 months for PhD students, or more frequently if the Committee decides that it would be helpful to the student. After receiving two outstanding committee meeting reminders from the Department, a student must meet with the Chair. Failure to have at least one Supervisory Committee meeting per year may result in loss of good academic standing. Also, registration in the next academic year will be withheld.

MSc Students in Program for More than Two Years.

If a student has been in the program for more than two years, both the supervisor and student must notify the Chair and propose a plan for degree completion. The first committee meeting after the 2 year mark should occur within 3 months. At this time, the plan for degree completion must be discussed and put into place. Failing this, the Chair or Graduate Coordinator are required to attend the next meeting (the student and/or supervisor must notify them of the time/date of the meeting).

PhD Students in Program for More than Four Years.

PhD students who have been in the program for more than 4 years should have a committee meeting every 6 months. For PhD students who have re-classified from the MSc program, the 4-year period begins from the time they started the MSc program.

If all committee members are not available to meet, the student may have the meeting with one member missing and meet with that member separately to get his/her feedback. Committee members may also participate in meetings via Skype or conference call.

Write up Now

One of the questions on the Supervisory Committee Report form asks, "Has the student completed all laboratory experiments required to write thesis?" If the answer is yes, an MSc student has a maximum of 4 months and a PhD student a maximum of 6 months in which to prepare the thesis and present signed Form 100 or the PhD Defense form to the Department. A continuation of funding beyond this date requires approval of the Chair. If the write-up time exceeds the 4 or 6 month periods, the student is expected to continue holding committee meetings.

Committee Meeting Reports

Students should ensure that they bring the most recent version of the Supervisory Committee Report form (Appendix C) to their meeting. After each meeting the Committee must complete this report which summarizes the progress of a student, recommendations for next steps and the predicted time to completion. The secretary of the committee, who must be an MBP faculty member, but cannot be the student's supervisor, must complete the report. The reverse of the form has room for comments from the student. The committee members and the student must sign the report. General knowledge

of the student must be assessed during the meeting and the corresponding evaluation noted. Supervisory Committee Report forms stating that general knowledge was not tested are not acceptable.

Before the meeting

Once the meeting is scheduled, the student is to complete a Research Summary Report (RSR) form - Appendix B. Completion of this report is mandatory for all students once a Supervisory Committee Meeting has been scheduled. The student is to complete the report and distribute it to the Supervisory Committee members at least 1 week before the committee meeting.

Structure of Research Summary Report form (RSR):

- 1-page research summary. This is designed to provide committee members with the necessary background of the students' project, providing more time for discussion of ongoing research.
- 1-page response to committee recommendations from the last meeting. This is designed to provide committee members with a quick summary of how recommendations were implemented, again leaving more time for discussion of ongoing research.
- PhD students in the 4th year must submit a detailed 1 page "plan to completion". The idea is to have a clear plan of how to complete a successful thesis within a reasonable time frame.

The student is also to download a Supervisory Committee Meeting report form from the MBP website, complete the areas shaded in gray, then print the form and bring it to the Committee meeting. The Committee is to appoint a member to act as Secretary and complete the remaining areas of the form to document the meeting.

The completed RSR form is to be handed in to the MBP Office with the completed Supervisory Committee Meeting Report form.

The student is to bring the following documents to the meeting:

- A copy of the completed Supervisory Committee meeting form from the last meeting
- An unofficial copy of the student's transcript showing all completed graduate courses
- A copy of the completed Research Summary Report form
- The Supervisory Committee meeting report form with the gray shaded areas completed by the student before the meeting.

After the meeting

The student is to distribute copies of the completed Supervisory Committee Meeting Report form as follows:

- 1 copy to each member of the committee
- Original hard copy to the Medical Biophysics Office (e-mailed copies are not acceptable):

- Uptown students: Donna, SRI, Room S665
- Downtown Students: Daphne, PMCRT, Suite 15-701
- The original hard copy of the completed Research Summary Report form is also to be submitted to the Medical Biophysics Office.
- Should a Supervisory Committee answer “Unsatisfactory” to either Question 6 or 7 on the Supervisory Committee meeting form, it will be necessary for the Graduate Coordinator to attend the next Supervisory Committee meeting.

DIFFICULTIES WITH SUPERVISORS

If a student encounters difficulties in the lab; for example, the student and their supervisor are having difficulties or the project is not what the student thought it would be, it is recommended that the student speak with one of our Graduate Coordinators (Dr. Razq Hakem or Dr. Anne Martel), the Vice-Chairs (Dr. Chuck Cunningham or Dr. John Sled), the Chair (Dr. Thomas Kislinger), or anyone in the administrative offices, as soon as possible. Students should reach out as soon as they have identified the problem and should not wait until too much time has passed. If the student does need to find another lab/supervisor, the Department will help the student do this as soon as possible. If the student is unable to find a new lab within a reasonable amount of time, the Department may require the student to take a leave of absence, during which time he/she will neither pay fees nor receive a stipend. During this leave, the Department will continue to help the student find a new lab/supervisor. Please note that no student can be enrolled in our Department without a supervisor.

If at any time during the student’s registration within MBP the student proposes to change supervisor, it is important that the Departmental Office be informed in writing by the student and the new supervisor.

Grounds for Terminating Registration and Candidacy of Student

- The student is not making academic progress;
- The student has several unacceptable grades (FZ, INC);
- The student has shown sustained lack of progress as documented on Supervisory Committee reports. (Two committee meetings which report unsatisfactory progress)
- Inactivity

EXAMINATIONS

GUIDELINES FOR THE MSc FINAL EXAMINATION

An MSc thesis usually consists of one piece of research of publishable quality. In addition to the thesis, the Department requires a defense of the thesis at an oral examination. Besides evaluating both the thesis and the knowledge of the student, this examination committee will also evaluate the suitability of the student as a PhD candidate. It is strongly recommended that the candidate use an SGS Thesis Template available at <http://www.sgs.utoronto.ca/currentstudents/Pages/Producing-Your-Thesis.aspx>. In most circumstances, an MSc thesis should be no longer than 50-75 pages in length (excluding references and figures). The following steps must be taken to prepare for an MSc exam:

- The student should provide the Supervisory Committee with a printed copy of the thesis.
- When the Supervisor and Supervisory Committee have approved the written thesis, a final committee meeting should be held to prepare the student for defense. The student should practice the 20-minute presentation and answer questions posed by the supervisor and committee members that will be typical of questions asked during the final defense. The supervisor and committee members confirm that the student is ready to defend by signing Form 100 Appendix E.
- By signing this form, the members of the Supervisory Committee indicate that they have read the thesis, have passed their comments on to the student, and that they agree the student is ready to defend the thesis. The examination will not be scheduled by the MBP office until this form is received with the required Supervisory Committee signatures.
- The Supervisory Committee (usually at the same meeting at which Form 100 is signed) must suggest at least two additional examiners who meet the following criteria:
 - All must hold an SGS appointment at University of Toronto
 - All must be at arm's length from the supervisor, for example not close collaborators, former trainees or mentors.
 - At least one must be a member of MBP.
 - One must have expertise in the area of the student's research.
 - One must be sufficiently far from the thesis work to establish the following: (i) the student can address a non-specialist scientific audience; (ii) the student has an adequate breath of knowledge to position and defend their work in the broader context of scientific endeavour.

If a student has a supervisory committee with 4 members including the supervisor, only 3 members can vote at the examination. The supervisor will decide which member will be the non-voting member. Every exam, therefore, has 6 voting members.

- Once suggestions for the composition of the examining committee is complete and the form is signed by all members of the Supervisory Committee, the student submits it to the MBP office

(Annette at PMCRT or Donna at SRI). The examining committee must be approved by the Graduate Coordinator or MBP Chair before scheduling the exam. The student needs to make sure this form is complete with the title of the proposal. After the form is approved, the student will find a date with a two-hour time period when these examining committee members are available. The MBP office is available to help if necessary. The MBP office will be responsible for appointing the Chair for the examination. The Chair will also be an examining committee member.

The student will distribute a printed copy of the thesis to all members of the examination committee including the Exam Chair at least two weeks prior to the examination. Failure to do so will result in postponement of the examination. The student should ensure that appropriate projection equipment is available for the examination. Most examinations held downtown will take place at PMCRT in room 15-710. This room is equipped with a LED TV and connections (HDMI cable and VGA converter). A laptop is also available if needed and can be picked from room 15-708. If the exam is not held in room 15-710, projectors can be reserved in advance - at the PMCRT/Princess Margaret call the RIS Help Desk at 581-7777, any of the Princess Margaret Divisional Coordinators, and at SRI call Donna-Marie at 416-480-5496. For students outside Princess Margaret but located downtown, please call Annette at 416-634-8751 to book the equipment. Students are responsible for ensuring that they have the equipment that they need on the day of their examination.

During the examination, the student will be asked to provide a 15-20 minute overview of the thesis. The student will then be questioned extensively on the thesis, peripheral topics related to the thesis and other topics in Medical Biophysics at the MSc degree level. Under exceptional circumstances, the Examining Committee may choose to adjourn the exam. If this occurs, the Committee must reconvene within 6 months, otherwise the examination will be recorded as a fail. Only one adjournment is allowed.

Upon satisfactory completion of the examination, the students will be required to submit their final theses to the School of Graduate Studies ProQuest Digital Library Repository. Please refer to the SGS website <http://www.sgs.utoronto.ca/currentstudents/Pages/Producing-Your-Thesis.aspx> for guidelines and checklists for thesis preparation.

A bound hard copy of the thesis must also be submitted to the Department. This can be done at the U of T BookPod. For more information, visit <http://bookpod.uoftbookstore.com/>. Students are also free to choose another printing company. There are no requirements regarding colour of the bound thesis. Examples of prior theses can be found in the 5th floor Library at Princess Margaret Cancer Centre, PMCRT Rm. 15-701, and Sunnybrook, Rm. S613.

If students need to make changes to their theses before handing in the final version to SGS, please remember that the Department will not send in the *Recommendation for Degree* until the Department has been notified by the student's supervisor that the changes are complete. This notification should be sent by email to either Donna or Annette (depending on the student's location). If a student intends to continue in the PhD program in the same lab, the email should also indicate that the supervisor accepts the student as a PhD student.

If the student does not intend to continue in the PhD program in the same lab, the new supervisor must hold a full School of Graduate Studies appointment and the Department must be informed of the change in supervisors. If the new supervisor holds Associate SGS status, the student will need a co-supervisor who is a senior member of the Department. Annette or Donna-Marie will inform SGS that the changes are complete, and attach the *Recommendation for the Degree*.

Note: MSc students who plan to defend and submit the final thesis to SGS in order to avoid Fall fees should not register for the Fall (i.e., pay fees or arrange for fee deferral). It is strongly recommended that the defense date is scheduled at least two weeks prior to the SGS deadline. This will allow time for the student to make any corrections to the thesis recommended by the examination committee. However, if the student thinks that he/she will not be able to meet the deadline and will defend shortly after, the student should register and be sure to apply for the SGS Master Tuition Fees Bursary (<http://www.sgs.utoronto.ca/currentstudents/Pages/Completion-Grants-Emergency-Funding.aspx>).

How to Transition from MSc to PhD Program

Students who did not reclassify but have successfully defended their MSc thesis and now intend to enter the PhD program need to apply for admission on-line at the SGS website (<https://apply.sgs.utoronto.ca/>). An application fee applies. Student should apply as soon as they know that they wish to continue in the PhD program (students can be registered in both MSc & PhD program simultaneously).

Restrict Thesis Release Date

It is the intention of the University of Toronto that there be no restriction on the distribution and publication of theses. However, in exceptional cases, the student, in consultation with the thesis supervisor, may request to postpone public access for a period of 1-2 years from the date of the student's convocation. The restriction may be renewed at the discretion of the Chair. Students must submit Restrict Thesis form to MBP office.

GUIDELINES FOR THE RECLASSIFICATION EXAMINATION

Overview

The Reclassification Examination is an accelerated route into the PhD program for suitable students. Students who chose to reclassify must submit an outline of the proposed research to be completed in the PhD program, which is followed by an oral defense of the research proposal at the reclassification examination. Students who successfully reclassify will immediately transfer into the PhD program and will not receive a MSc degree. Students must have obtained an A- average in courses to date in order to be eligible for reclassification. If no graduate courses have been completed, the final undergraduate year will be considered. Note that courses required for the MSc need not be completed before reclassification.

Written Reclassification Proposal

To prepare for the examination, the student must distribute a research proposal to all of the committee members. The proposal should contain a brief summary of current knowledge relative to the proposed research, including results bearing on the project by other investigators with a list of relevant references; a brief description of the research accomplished so far, and a description of the proposed research. It is important that the research be feasible, even though successful outcome at this stage may not be guaranteed. The written proposal is limited to 20 pages (12-point size and 1" margins) double-spaced (23 lines per page), references and figures excluded, and must be presented to the student's Supervisory Committee for approval before scheduling the exam.

Oral Reclassification Defense

The student is judged on the proposal and its defense, not on the quality or quantity of the work achieved to-date. At the examination, the student will be asked to give a brief 15-20 minute summary of the research proposal. They will then be questioned on the proposal and on peripheral knowledge related to the project. The questioning is likely to be free flowing and less focused on work done: it can range from the actual detail of experiments done to speculative ideas of potential scientific approaches in the field of the proposal and its related areas. In general, examinations are two hours. The committee will evaluate the student in three areas:

- i) the proposed research and defense of its feasibility;
- ii) technical competence;
- iii) scientific knowledge in the area of the proposed research.

The primary criterion for success is that the examination committee feels that the candidate is likely to be a successful independent investigator at the end of a PhD program.

Possible Outcomes of the Reclassification Examination

i) Successfully reclassify (pass)

After the examination, the student should complete a "Program Transfer Request Form" (fill in the top section only). These forms can be printed from the Graduate Student Handbook section under Resources on the MBP website (<http://medbio.utoronto.ca/content/graduate-student-handbook>) and should be returned to Annette or Donna. This transfer request form will transfer the courses taken

during the MSc to the PhD program. Students will be transferred into the second year of the PhD program. The stipend increase is effective from the date of the successful reclassification examination.

ii) Continue in MSc program

If a student receives more than one negative vote, they cannot reclassify. Students who are not reclassified at this examination continue in the MSc program. They will be reconsidered for PhD candidacy at their MSc examination.

iii) Adjourn

If a student is not likely to pass the examination because of a minor deficiency, the examination committee can adjourn and reconvene at a later date to determine if the deficiency has been corrected. The committee must reconvene within 3 months; otherwise the examination outcome will be recorded as ‘Continue in MSc program’.

The Reclassification Process

Timeline

The students must have their reclassification examination scheduled within 20 months after entry to the program and complete the reclassification exam by May 31, 2020. It should be noted, however, there is no reason that a reclassification exam cannot be held within 6 months to a year of the student entering the program.

Timeline for 2018 September entry students

Dates	To be completed
Early 2020	- Submit written proposal to supervisory committee. - Committee meeting. Form 100 signatures
April 2020	- Submit Form 100
May 2020	- Schedule reclassification exam
May 31, 2020	- Complete reclassification exam

Extenuating circumstances sometimes allow for extension of the time limit for reclassification. Students should send an explanatory letter to the Chair of the Department describing why reclassification cannot be completed within this time limit and why an extension should be granted. Extensions beyond 24 months from program entry are not possible without approval of the Dean of SGS.

Write and Submit Research Proposal to Committee

At the beginning of 2020, students should be planning, organizing and writing their PhD research proposal.

Supervisory Committee Meeting and Form 100

- When the written research proposal is complete, students must provide their Supervisory Committee with a copy prior to the committee meeting scheduled to determine whether a student is ready for examination. At this meeting, all supervisory committee members must sign Form 100 indicating that they have read the proposal and passed their comments on to the student and agree the student is ready for the reclassification exam.

- The Supervisory Committee must suggest at least two additional examiners who meet the following criteria:
 - All must hold an SGS appointment at University of Toronto
 - All must be at arms-length from the supervisor and student, for example not close collaborators, former trainees or mentors.
 - At least one must be a member of MBP.
 - One must have expertise in the area of the student's research.
 - One must be sufficiently far from the thesis work to establish the following: (i) the student can address a non-specialist scientific audience; (ii) the student has an adequate breath of knowledge to position and defend their work in the broader context of scientific endeavour.
- If a student has a supervisory committee with 4 members including the supervisor, only 3 members can vote at the examination. The supervisor will decide who will be the non-voting member. Every examination, therefore, has 6 voting members.
- Once suggestions for the composition of the examining committee is complete and the form is signed by all members of the Supervisory Committee, the student submits it to the MBP office (Annette at PMCRT or Donna at SRI). The examining committee must be approved by the Graduate Coordinator or MBP Chair before scheduling the exam. The student needs to make sure this form is complete with the title of the proposal. After the form is approved, the student will find a date and a two hour time frame when these examining committee members are available. The MBP office is available to help if necessary. The MBP office will be responsible for appointing the Chair for the examination. The Chair will also be an examining committee member.
- After Annette or Donna-Marie has informed the student who will chair the exam, the student will distribute a printed copy of the proposal to all members of the examination committee at least two weeks prior to the examination. (Electronic copies are only permitted if the examining committee member(s) agree(s) to it, so students should be prepared to distribute hard copies). Failure to distribute copies in time will result in postponement of the examination.

The student should ensure that appropriate projection equipment is available for the examination. Most examinations held downtown will take place at PMCRT in Room 15-710. This room is equipped with a LED TV and connections (HDMI cable and VGA converter). A laptop is also available if needed and can be picked from room 15-708. If the exam is not held in Room 15-710, LCD projectors can be reserved in advance – at the PMCRT/Princess Margaret call the RIS Help Desk at 581-7777. At SRI call Donna at 416-480-5496. For students outside PMCRT/Princess Margaret but located downtown, please call Annette at 416-634-8751 to book the equipment. Students are responsible for ensuring that they have the equipment that they need on the day of their examination.

GUIDELINES FOR THE PHD QUALIFYING EXAMINATION

All students who enter a PhD program in the Department of Medical Biophysics must prepare a research proposal and pass a Qualifying Examination sometime during their first 18 months in the program in order to continue their studies in the Department. This includes students who have obtained their MSc from MBP (effective September 2008). A student who entered the Department in September 2018, will have the qualifying exam in March 2020. If a student enters the Department in January 2019, they will have the qualifying exam in June 2020. Should an extension be necessary due to serious extenuating circumstances, a request must be submitted to the Chair.

The following steps must be taken to prepare for a Qualifying Examination:

- The student should provide the Supervisory Committee with a printed copy of the qualifying proposal for the intended PhD project (see *Qualifying Proposal* next page).
- The Supervisory Committee (usually at the same meeting at which Form 100 is signed*) must suggest at least two additional examiners who meet the following criteria:
 - All must hold an SGS appointment at University of Toronto
 - All must be at arms-length from the supervisor and student, for example not close collaborators, former trainees or mentors.
 - At least one must be a member of MBP.
 - One must have expertise in the area of the student's research.
 - One must be sufficiently far from the thesis work to establish the following: (i) the student can address a non-specialist scientific audience; (ii) the student has an adequate breadth of knowledge to position and defend their work in the broader context of scientific endeavour.
- If a student has a supervisory committee with 4 members including the supervisor, only 3 members can vote at the examination. The supervisor will decide which member will be the non-voting member. Every exam, therefore, has 6 voting members.
- *The student completes Form 100 and obtains signatures from their supervisory committee members. Please ensure this form is complete with the title of the proposal. By signing this form, the Supervisory Committee indicates that they have read the proposal, have passed their comments on to the student, and that they agree the student is ready to defend the proposal. Once Form 100 is signed and the supervisory committee has provided suggestions for the composition of the examining committee, the student submits the completed form to the MBP office (Annette at PMCRT or Donna at SRI). Please note: the examining committee must be approved by the Graduate Coordinator or MBP Chair prior to scheduling the exam. After the committee is approved, the student will find a date and a two hour time frame when these examining committee members are available. The MBP office is available to help if necessary. The MBP office will be responsible for appointing the Chair for the examination. The Chair will also be an examining committee member.
- Students who first enrolled in September 2018, should submit form 100 to Annette or Donna-Marie by February 9, 2020, to ensure that the exam can take place by March 2020.

- Once Annette or Donna-Marie has informed the student who will chair the exam, the student will distribute a printed copy of the proposal to all members of the examination committee, including the exam Chair, at least two weeks prior to the examination. Failure to do so will result in postponement of the examination. The student should ensure that appropriate projection equipment is available for the examination. Most examinations held downtown will take place at PMCRT in Room 15-710. This room is equipped with a LED TV and connections (HDMI cable and VGA converter). A laptop is also available if needed and can be picked from room 15-708. If the exam is not held in Room 15-710, LCD projectors can be reserved in advance - at the PMCRT/Princess Margaret call the RIS Help Desk at 581-7777 and at SRI call Donna at 416-480-5496. For students outside PMCRT/Princess Margaret but located downtown, please call Annette at 416-634-8751 to book the equipment. Students are ultimately responsible for ensuring that they have the equipment that they need on the day of their examination.

The Qualifying Proposal

To prepare for the examination, the student must distribute a research proposal to all of the committee members. The proposal should contain a brief summary of current knowledge relative to the proposed research including results bearing on the project by other investigators with a list of relevant references; a brief description of the research accomplished so far, and a description of the proposed research. It is important that the research be feasible, even though successful outcome at this stage may not be guaranteed. The written proposal is limited to 20 pages (12-point size and 1" margins) double-spaced (23 lines per page), references and figures excluded, and must be presented to the student Supervisory Committee for approval to proceed before the exam.

Oral Qualifying Defense

The student is judged on the proposal and its defense, not on the quality or quantity of the work achieved to-date. At the examination, the student will be asked to give a brief 15-20 minute summary of the research proposal. They will then be questioned on the proposal and on peripheral knowledge related to the project. The questioning is likely to be free flowing and less focused on work done: it can range from the actual detail of experiments done to speculative ideas of potential scientific approaches in the field of the proposal and its related areas. In general, examinations last between two and three hours. The committee will evaluate the student in three areas:

- i) the proposed research and defense of its feasibility;
- ii) technical competence;
- iii) scientific knowledge in the area of the proposed research.

The primary criterion for success is that the examination committee feels that the candidate is likely to be a successful independent investigator at the end of a PhD program.

Possible Outcomes of a Qualifying Examination

i) Pass

The student continues in the PhD program

ii) Fail

If a student receives more than one negative vote, they have failed the examination. Students failing the qualifying examination may no longer continue in the graduate program in the Department.

iii) Adjourn

Under exceptional circumstances, the Examining Committee may choose to adjourn the exam. The committee must reconvene within 3 months otherwise the examination will be recorded as a failure. Only one adjournment is allowed.

GUIDELINES FOR THE PHD FINAL EXAMINATION

Students are expected to complete their PhD theses within 5 years of starting their PhD (that is, from the date of Direct Entry or the date of Reclassification). PhD students who have been in the program for more than 4 years *must* have a committee meeting every 6 months. For students who have reclassified from the MSc program, the 4 year period begins when the student started the MSc program.

A PhD thesis usually consists of 2 or 3 completed pieces of work, each of which could constitute a published manuscript. The research in a PhD thesis must constitute a new contribution to knowledge in the field and be of publishable quality. In most cases a PhD thesis will be no longer than 75-125 pages in length (excluding references and figures). Students should note that writing the thesis and receiving comments back may take 1-3 months. Students should double-check that they have completed all the degree requirements for the program, and/or have given any exemption letters to the Departmental office.

The Thesis

It is expected that the PhD thesis will constitute an original contribution to knowledge in the field, and that the candidate will have demonstrated an appropriate level of scholarship in his or her chosen area. It is the responsibility of the Supervisory Committee to ensure that the thesis is complete and meets Departmental standards. It is strongly recommended that the candidate use an SGS Thesis Template available at <http://www.sgs.utoronto.ca/currentstudents/Pages/Producing-Your-Thesis.aspx>.

Students should make sure that their supervisor reviews each part of the thesis as it is written. This process will help to make corrections and changes early and help maintain continuity throughout the writing process. Feedback from the supervisor on draft chapters (or parts of chapters) should be provided within two weeks or an agreed period. Students do not normally need permission to copy previously copyrighted material unless the thesis contains an exact copy of a published entity. Copied material and its source must be identified in the thesis.

The PhD Examination Committee

If the Supervisory Committee has four members (including the Supervisor), only 3 of the 4 members may vote at the examination, but all 4 members are expected to be present at the Examination. Usually it is the Supervisor who does not vote, but the student should discuss this with the supervisor and supervisory committee.

The Examination Committee will include an external examiner from outside the University of Toronto. This examiner will provide a written appraisal. SGS rules require that the external examiner's appraisal be made available to the student and the Examining Committee two weeks before the examination.

Composition of the Examination Committee

(Limited by SGS to a maximum of 6 voting members)

- **All** members of the Supervisory Committee (**of which 3 members vote**)
- External Examiner (who must be outside of U of T, be at an Associate Professor rank or higher, and arms-length to both the student and supervisor. This person **MUST** attend and be present during the exam. They must submit a written appraisal 2 weeks before the date of the exam. **(1 vote)**)
- Another MBP faculty member who must be sufficiently far from the thesis work to establish the following: (i) the student can address a non-specialist scientific audience; (ii) the student has an adequate breadth of knowledge to position and defend their work in the broader context of scientific endeavour. **(1 vote)**)
- An Internal to U of T/External to MBP Faculty member. This member must not have been closely involved in the supervision of the thesis. This member must have an Associate or Full membership with SGS and arms-length to both the student and supervisor (SGS status may be checked at <http://www.sgs.utoronto.ca/facultyandstaff/Pages/Faculty-Members-A-Z.aspx>). In the event that it is difficult to appoint a suitable internal examiner outside of MBP, a Medical Biophysics faculty member can be appointed provided the arms-length criteria are met. **(1 vote)**)
- Chair of Examination, appointed by SGS and non-voting.

Procedure and Timelines

Students are encouraged to read through the guidelines here first, and then speak with either Annette or Donna for further discussion of the procedures.

At least 8-9 weeks before the examination:

1. The student obtains approval from the Supervisor to distribute a complete, edited draft of the thesis to all members of the Supervisory Committee.
2. The Supervisory Committee discusses potential candidates for both the Internal and External examiners. Three names of potential Internal and External examiners should be recorded on the Final Committee Meeting Report for PhD Oral (*Appendix F*) for discussion at the Final Committee Meeting, which should take place between 7-8 weeks before the exam.
3. The student submits a completed Final Committee Meeting Report for PhD Oral form to Annette or Donna-Marie. The Department Chair, Vice-Chairs, or Graduate Coordinator will choose the external examiner and approve the additional examiners.
4. Only then should the supervisor contact the examiner to find out their willingness to participate in this examination and to ascertain availability to come to Toronto. The supervisor should explain to the external examiner that they are expected to write an appraisal of the thesis and submit it two weeks before the date of the exam. The departmental office will send a letter to the examiner explaining the details. ***The student must not be involved in this process, nor contact any of the examiners.***

At least 7-8 weeks before the examination:

1. Both forms *Appendix F & G* should be signed and returned to the MBP office.

- a. The student must first bring in Appendix F with the signatures of the supervisory committee. Once this form has been approved by the department, the supervisor and the student will get an email confirmation from Annette or Donna-Marie saying the potential Internal and external examiners have been approved.
 - b. After the approval, the supervisor can contact the potential examiners for availability of the agreed upon time and date for the PHD exam; ***Please note that it is up to the supervisor and the student to decide the time and date for the PHD examination.***
 - c. Once the supervisor has confirmed an external examiner, an internal U of T/external to MBP examiner and the additional MBP faculty member, the student must bring in a signed Appendix F. *Please note that the student must not be involved in this process, nor contact any of the examiners.*
 - d. It is the responsibility of the student to email Annette and Donna-Marie an abstract of the thesis. At least 6-7 weeks before the examination the student must ensure all members of the examining committee have a copy of the thesis.
2. Once the Chair and/or the Graduate coordinator approves the examination by signing the form, the MBP office will send a confirmation email to the examining committee to confirm their participation on the agreed time, date and provide details of the location of the exam before confirmation is sent to SGS. Please note that SGS requires a minimum of 6 weeks from its first notification until the examination date.
 3. An email will be sent together with an official letter to the external examiner. The Department will outline the obligations of the external examiner as well as assist with travel arrangements and reimbursement procedures. Please note that the Department will reimburse the external examiner's economy airfare/transportation, plus reasonable expenses for one-night accommodation, meals and ground transportation up to \$1500. If the travel costs exceed that amount, it is expected that the supervisor will pay the difference.
 4. The MBP Office will notify the PhD Office of the exam, make arrangements for an SGS Chair to attend, obtain SGS approval of the Committee composition and ensure that all other degree requirements are met. Including organizing the room and ordering refreshments.

At least 6-7 weeks before the examination:

The student provides a printed copy of the thesis to all Examiners except for the external examiner. The student will need to provide a printed copy to Annette or Donna-Marie who will FEDEX it to the external examiner directly. The SGS Exam Chair does not need a copy of the thesis.

Two weeks before the examination:

If the external examiner has provided the appraisal by email, the MBP office will send it to the candidate and the examination committee. If the appraisal has not been received, the Department will ask the student if they are willing to proceed in spite of the delay in receipt of the appraisal. If the student agrees, they will be asked to sign a waiver to this effect. If the student does not wish to proceed, the oral examination will be postponed.

The Day of Examination

Public Oral Presentation:

This is a departmental requirement and not considered part of the official exam by the University. The student will present a 30-40 minute seminar on their work, in the presence of the Examination Committee, open to the public. The SGS Chair is invited to attend but need not do so. The Supervisor will introduce the candidate and the lecture. A public question period is permitted, but the Examination Committee does not take part in this question period. Questions from the examining committee are reserved for the closed examination. Faculty and students are encouraged to attend the oral presentations.

Closed Examination:

The Examining Committee will retire to examine the candidate. The closed portion of the examination will start not less than 10 minutes and not more than 2 hours after the public oral presentation. It will typically be held in a meeting room at PMCRT or SRI, though may also be held at the SGS upon request. Please note that the Chair of the examination will invite the PhD candidate to make a presentation at the start of the closed exam -- students may decline if they wish.

Immediately after the Examination

The candidate will be told at the end of the exam of the outcome and if any corrections/modifications need to be done to the thesis. Once these have been completed, the Supervisor must email a letter to the PhD Oral Examination Office, sgs.doctoral@utoronto.ca (with a copy to either Annette or Donna-Marie) certifying that the changes are complete. *The candidates do not need to go to SGS for post examination paperwork. The post examination paperwork will be emailed to them.*

Possible outcomes of a PhD Examination

- i) Pass with no changes to thesis.
- ii) Pass with Minor Corrections: The candidate has 1 month from the date of the exam to complete any minor corrections.
- iii) Pass with Minor Modifications: The candidate has 3 months from the date of the examination to complete the minor modifications.
- iv) Adjourn: The candidate has one year in which to schedule a reconvened examination, otherwise the result is considered to be a fail.

Additional notes:

The Department requires one copy of the bound thesis. This can be done at the U of T BookPod. For more information, visit <http://bookpod.uoftbookstore.com/>. Students are also free to choose another printing company. Students can choose whichever colour they prefer.

Restrict Thesis Release Date

It is the intention of the University of Toronto that there be no restriction on the distribution and publication of theses. However, in exceptional cases, the student, in consultation with the thesis supervisor, may request to postpone public access for a period of 1-2 years from the date of the student's convocation. The restriction may be renewed at the discretion of the Chair. Students must submit Restrict Thesis form to MBP office.

TUITION FEES FOR FINAL YEAR DOCTORAL STUDENTS

Academic fees for doctoral students in the final year of their program are prorated and based on the 12-month academic year. Incidental fees are charged on a sessional (term) basis. Doctoral candidates who complete all degree requirements (i.e., defend and submit a final thesis with all corrections and modifications approved) by September 17, 2018 do not pay fees for the Fall session. After September 17, a monthly fee will be charged for each month in which all degree requirements are not completed by the 15th day of the month. Doctoral students finishing between September 18 and January 15 will pay a one-session incidental fee and those finishing between January 16 and August 31 will pay a two-session incidental fee. Doctoral students will be billed for the annual fee but may choose to pay (1) the full fee, (2) the minimum first payment or (3) the fee based on expected date of completion. If a student pays less than the full year fee, please note that starting November 15, a monthly service charge will be applied to any outstanding balance. When degree requirements are complete, the Student Accounts Office will adjust the fees accordingly, including services charges to outstanding balances that have accrued since November 15. For final year doctoral students fees schedule, please see

http://www.fees.utoronto.ca/sessions/2018_2019/tuition_fees/fes/Graduate_Studies__School_of.htm

CONFIRMATION OF DEGREE & CONFIRMATION OF REGISTRATION LETTERS

Confirmation of Degree Requirements letters (confirming that all degree requirements have been met) can only be issued by the School of Graduate Studies. It is their policy that all student fees must be paid in full before a letter is issued. To request such a letter, please go to the SGS website, <http://www.sgs.utoronto.ca/currentstudents/Pages/Student-Forms-and-Letters.aspx> and look under Confirmation Letters. SGS will confirm that all degree requirements have been met and that the student has no outstanding financial obligations to the University. There is no fee for the letter, for which 5 business days should be allowed.

Students who require a letter confirming enrolment for OSAP, immigration, and other government-related purposes must also obtain the Confirmation of Registration letter from SGS, as outlined above.

GENEVA PARK RETREAT

The Department will be holding its annual retreat from Sunday, September 23 until Tuesday, September 25, 2018 at Geneva Park, near Orillia, about 1.5 hours from Toronto. The retreat has several purposes, including an opportunity for new students to meet other students and faculty, and to hear about some of the areas of research in the Department. It is also an important occasion for networking among students and faculty alike. Time is set aside for an open Departmental Meeting, where students can bring up issues for discussion. The program covers about 3 days, starting Sunday afternoon and ending Tuesday after lunch. Talks are given by faculty, students and post-docs. In addition, there is a session organized by the Student Executive and a plenary talk on a subject of general interest by a senior faculty member in the Department. For more information and registration, please go to <http://medbio.utoronto.ca/content/geneva-park-september-23-25-2018>

MBP GRADUATE STUDENT EXECUTIVE

Students enrolled in the department of Medical Biophysics are members of the MBP student association. A portion of the students' incidental fees goes to the Graduate Students Association (GSA), which in turn funds the MBP Graduate Student Executive.

The MBP Graduate Student Executive is an elected body of graduate students who represent student interests by participating in the standing committees of the Department, in addition to organizing academic, social and sporting events throughout the year. The MBP Graduate Student Executive meets semi-regularly over the course of the year to plan events and discuss issues of relevance to students. The MBP Graduate Student Executive is comprised of two cooperative branches – one at uptown (Sunnybrook and Rotman) and one downtown (PMCRT, HSC, OICR, Mount Sinai, St. Michael, Princess Margaret). Elections for these positions are held in September at both Sunnybrook and Princess Margaret; a listing of current representatives can be found at: <http://www.mbpgsa.ca/academic/about/>

Elected Positions

Each branch has members filling the following positions:

DOWNTOWN

PRESIDENT

- Advocate for MBP students at faculty and departmental levels;
- Coordinate and supervise the affairs of the GSA;
- Sit on the MBP Faculty Executive Committee as the student representative;

- Attend meetings of the interdepartmental Presidential Roundtable;
- Call and preside over meetings of the GSA;
- Appoint the Chief Returning Officer (CRO);
- Coordinate the MBP Open House, with the administration and the CRO;
- Coordinate the MBP Interview/Orientation Day, with the administration.

VICE-PRESIDENT

- Appoint and liaise with the head coordinators of the Geneva Park and JLM Committees;
- Schedule and coordinate GSU representatives to attend monthly UTGSU meetings;
- Facilitate the first-year mentorship program, giving guidance to the First-Year Representatives;
- Assume the roles and responsibilities of the President should the President be unavailable;
- Act as ombudsperson;
- Address issues/conflicts raised by students through an ad-hoc feedback committee;
- In the case there is no fit candidate for Finance Representative, the Vice-President will assume the roles and responsibilities outlined.

FINANCE REPRESENTATIVE

- Represent and coordinate the financial affairs of the GSA;
- Keep proper records of financial spending of the GSA and its various committees, in the case of an audit;
- Manage the budgets of the GSA and its various committees;
- Ensure the Student Initiative Fund is upheld.

COMMUNICATIONS REPRESENTATIVE

- Responsible for the transcription and distribution of the agendas and/or minutes of meetings of the GSA;
- Responsible for the transcription and distribution of minutes of any town halls called by the Department Chair;
- Maintain all documentation relevant to the GSA, including but not limited to contact information of council and committee members, the Constitution, and the By-Laws.
- Maintain the various social media platforms of the GSA and, in the case there is no fit candidate for Webmaster, the GSA website;
- Coordinate the bi-weekly student newsletter, and any other communications or media initiatives.

SOCIAL REPRESENTATIVES

- Maximum of 2 may be elected;
- Act as head coordinator(s) of the Social Committee;
- Organize monthly social events;
- Organize the annual MBP Holiday Party, and appoint a separate organizing committee, if necessary;

- Coordinate sports-related events, including but not limited to intramural teams, viewing events, tournaments, etc.;
- Represent MBP when organizing collaborative events with other departments.

FIRST-YEAR REPRESENTATIVES

- Maximum of 2 may be elected;
- Present first-year interests and concerns to the GSA;
- Coordinate the MBP Mentorship Program, and any other first-year-related initiatives.
- Aid in the organization of the MBP Orientation Day with the President.

UPTOWN

PRESIDENT

- Coordinate and supervise the affairs of the GSA;
- Sit on the MBP Faculty Executive Committee as the student representative;
- Call and preside over meetings of the GSA;
- Appoint the Chief Returning Officer (CRO);
- Coordinate the MBP Open House, with the administration and the CRO;
- Coordinate the MBP Interview/Orientation Day, with the administration.

VICE-PRESIDENT

- Assume the roles and responsibilities of the President should the President be unavailable;
- Represent and coordinate the financial affairs of the GSA;
- Keep proper records of financial spending of the GSA and its various committees, in the case of an audit;
- Manage the budgets of the GSA and its various committees;
- Ensure the Student Initiative Fund is upheld.

APPOINTED POSITIONS & COMMITTEES

WEBMASTER

- The webmaster may be from either Downtown or Uptown, but must be available by, minimum, email to both Downtown and Uptown representatives;
- Maintain and update the GSA website;
- Maintain the various social media platforms of the GSA, if necessary;
- Integral to maintaining the GSA website's elections platform during Elections.

DOWNTOWN

CHIEF RETURNING OFFICER (CRO)

- Must be a currently enrolled student who has previously served as MBPGSA President (at any time), or Vice-President in the case there is no fit candidate;
- Aids the President in his or her duties in an advisory capacity;
- Ensure the Constitution and its By-Laws are upheld;
- Act as Chief Electoral Officer (CEO) and coordinate the general elections with impartiality, with the aid of the administration and Webmaster.

GSU REPRESENTATIVES

- Minimum of 2 must be appointed from the Downtown GSA;
- Attend monthly UTGSU Council meetings;
- Report all UTGSU affairs at meetings of the GSA;
- Act as liaison between the GSA and the UTGSU.

SOCIAL COMMITTEE

Chaired by the Social Representatives, the MBP Social Committee organizes various events to cater to the social needs of MBP students. We plan annual events, such as the FacMed Halloween Party, Movember x MBP, the Holiday Party, and St. Patty's Day, and complement these with smaller, monthly events that are more diverse in nature, such as movie nights, summer patio nights, day trips to explore Toronto, and sports games. Every member is given the opportunity to plan and execute an event on their own, so this is a great opportunity to get involved with the MBPGSA.

JAMES LEPOCK MEMORIAL (JLM) SYMPOSIUM COMMITTEE

The James Lepock Memorial Student Symposium is an important event, which commemorates the significant contributions of the Dr. James Lepock to research and the Department of Medical Biophysics and provides an opportunity for MBP students to present their research in a conference setting. The JLM Symposium is a student-led initiative, which fosters scientific debate across disciplines, streams and institutes. MBP students have the opportunity to showcase their research in the form of either a scientific poster or oral presentation at the Symposium, and best presenters are recognized with merit awards. This event also features keynote addresses from both local and international experts in the field of Medical Biophysics and is attended by more than 150 students and faculty members every year.

The JLM is a day-long event and is open to all graduate students, post-doctoral fellows, summer/co-op students in MBP and all faculty members in the Faculty of Medicine. Each year, the Symposium Committee plans and executes to deliver a successful JLM Symposium.

GENEVA PARK RETREAT COMMITTEE

The MBP Geneva Park Organization Committee plans and organizes the scientific programs for the annual Medical Biophysics Annual Retreat at Geneva Park. This event occurs over three days and allows for students to meet with faculty members in Medical Biophysics and to learn about their

research programs in a relaxed and bucolic setting. We have a Departmental meeting, keynote talk, spotlight talk, and an award banquet, as well as recreational time. Members of this committee connect with faculty, schedule speaker events, and plan recreational activities for students.

MBP CAREER DEVELOPMENT ASSOCIATION

The MBP Career Development Association is a new student-run initiative aimed to connect current MBP students with alumni through panel sessions, workshops, culminating in an alumni reception. Our goal is to offer students with resources to aid in the transition from graduation to employment. Along with our alumni events, we intend to build an online network through LinkedIn to connect the MBP community. We are also collaborating with other graduate career-development associations (Molecular Genetics, Laboratory Medicine and Pathobiology, and Science Career Impact Project) to hold inter-departmental events.

MBP COMMUNITY OUTREACH COMMITTEE

The MBP Community Outreach Committee is a student-run initiative with a passion for promoting scientific engagement and community-building outreach activities. We believe in equal access to STEM opportunities and partner with the MBP community, surrounding research institutes, and outreach leaders to bring cutting-edge MBP research exposure to younger generations from a variety of socioeconomic and educational backgrounds. Successfully led initiatives include a March Break Camp for high-school students, one-day hands-on scientific workshops, and an e-mentorship program between MBP graduate students and the Foundation for Student Science and Technology. We also engage MBP graduate students and faculty to participate in our non-science related outreach activities, which include partnering with FixThe6 in a 100 for the Homies event to benefit the homeless population in Toronto and partnering with Canadian Blood Services for Team Blood Drives.

UPTOWN

CHIEF RETURNING OFFICER (CRO)

- Must be a currently enrolled student who has previously served as MBPGSA President (at any time), or Vice-President in the case there is no fit candidate;
- Aids the President in his or her duties in an advisory capacity;
- Ensure the Constitution and its By-Laws are upheld;
- Act as Chief Electoral Officer (CEO) and coordinate the general elections with impartiality, with the aid of the administration and Webmaster;
- In the case that there is no eligible candidate, the Downtown CRO will assume these roles.

GSU REPRESENTATIVES (min. 2)

- Minimum of 2 must be appointed from the Uptown GSA;
- Attend monthly UTGSU Council meetings;
- Report all UTGSU affairs at meetings of the GSA;
- Act as liaison between the GSA and the UTGSU.

MBP OLYMPICS COMMITTEE

The MBP Olympics Committee help to organize and run our annual MBP Olympics Games held at Sunnybrook Park. This includes helping to plan the various games and competitions, recruiting teams to participate, organizing our end-of-olympics BBQ and more.

ILLNESS, COMPASSIONATE LEAVE, MATERNITY LEAVE

It is possible that illness may interrupt a graduate training program temporarily. Under these circumstances, the student and the supervisor should discuss the projected absence as early as possible so that the student's work may be covered (e.g. cells or animals maintained). A prolonged absence may necessitate a change in the research project and this too needs to be discussed. In most cases, satisfactory ways of resolving research, academic and financial issues are reached between the student and the supervisor concerned. When this is not possible, the Graduate Coordinator or Department Chair should be consulted. Before or during compassionate leave for urgent family reasons, the student needs to inform the supervisor so that important aspects of their research can be attended to pending the student's return. If an extended leave is required, a Leave of Absence form should be completed. Please drop by the departmental office to pick up the form.

Maternity leave generally provides more opportunity for planning of the necessary absence. As early as possible, the student should discuss her work environment with the supervisor so that potential hazards to the fetus can be avoided. As well, the student and her supervisor should discuss the length of pre- and post-natal absence and plans for her research project during the absence. Depending on the length of the maternity leave, and the nature of a particular project, it may be necessary to continue the research temporarily using other laboratory personnel, or in rare cases to switch to a new project. The student's stipend will continue to be paid by her supervisor during maternity leave to a projected maximum time of 4 months. A student may apply for a one to three term leave of absence from the University. At this time, they do not pay fees, register, or make use of the University's facilities. You are also not eligible for any awards.

The School of Graduate Studies policy on leave

Graduate students whose program require continuous registration may apply to their Graduate Coordinator for a one session to three session leave during their program of study for:

- Serious health or personal problems which temporarily make it impossible to continue in the program, or
- Parental leave by either parent at the time of pregnancy, birth or adoption, and/or to provide full-time care during the child's first year. Parental leave must be completed within twelve months of the date of birth or custody. Where both parents are graduate students taking leave, the combined total number of sessions may not exceed four.
- During the leave, students will not be paid stipend nor receive award installments.

Once on leave, students will neither be registered nor will they be required to pay fees for this period. In general, students on leave may not make demands upon the resources of the University, attend courses or expect advice from their supervisor. As an exception, students on leave for parental or serious health reasons who wish to consult with their supervisor or other faculty are advised to make special arrangements through their department. Students on leave will not be eligible to receive University of Toronto fellowship support. In the case of other graduate student awards, the regulations of the particular granting agency apply.

Students may make application for a leave by completing the Leave Request Form and submitting it to their Graduate Coordinator for approval. The form is then sent to the School of Graduate Studies for processing. The termination date of the degree program will be extended by the duration of the leave taken, i.e., one, two, or three sessions as appropriate. Except for parental leave or in exceptional circumstances, it is not expected that a student will be granted more than one leave under the terms of this policy. Normally the start and finish of the leave would coincide with the start and end of a session. When students require a leave to begin in mid-session, they are advised to contact the Director of Student Services at the School of Graduate Studies to make special arrangements. Leave requests that do not fall under the terms of this policy will require final approval from the School of Graduate Studies. If the student plans on taking maternal or parental leave, they should discuss this well in advance with their supervisor and the Departmental office as some of the granting agencies provide assistance for this. The amounts and terms vary depending on the source of the student's stipend.

Leave of Absence Stipendiary Fund

The Office of Graduate and Life Sciences Education (GLSE) in partnership with the School of Graduate Studies and with support from the SGS Dean's Innovation Fund created the *Leave of Absence Stipendiary (LOA) Fund* for research-stream graduate students. The LOA is available for a one-term leave of absence due to health issues (physical and/or mental health challenges). Funding is available up to \$5,000 per student for one term on a one-time only basis. Please visit <http://www.glse.utoronto.ca/glse-leave-absence-stipendiary-fund> for additional information and application instructions.

Faculty of Medicine Guidelines on Graduate Student Personal Time Off

Within the Faculty of Medicine, it is recognized that many graduate students conduct their research almost exclusively within a laboratory setting, where they may or may not have control over their hours and the flow of the research program. Students are not employees and therefore have no rights to employee benefits, including paid vacation entitlement. However, it is recognized that in order for a graduate student to reach their full potential, achieve academic excellence and maintain a healthy work life balance, they benefit from some personal time off or 'vacation'. There are SGS policies and procedures in place for students who require a leave of absence for parental, personal or medical reasons. However, there are no University or SGS policies regarding graduate student personal time off / 'vacation'. The following guidelines for faculty and graduate students provide a framework for

reasonable expectations. As a general rule, students might reasonably expect up to three weeks (15 working days) per year in personal time off, plus statutory holidays, under the following conditions:

- Time off provisions should be negotiated, in a clear and transparent manner, between the supervisor and the graduate student.
- Time off should not compromise the research program and/or the student's graduate studies. Students must ensure that laboratory work, experimentation and other time sensitive activities are either completed, or arrangements made for others to continue ongoing work.
- Consideration should be given to when the building or lab is closed (i.e. winter holidays) when taking time off.
- Time sensitive deadlines (i.e. award applications, abstract submissions) must be taken into consideration.
- Time off cannot be carried forward from year to year.
- Time off should be requested as far in advance as possible.
- The student and supervisor should be able to maintain contact as appropriate if the student is away for an extended period.
- Given that students receive remuneration as a stipend, not salary, the stipend continues, unaffected by this personal time off.
- Attendance at social activities within the academic community (departmental picnic etc.) or scientific meetings do not fall under the category of personal time off.
- Sick leaves or absences for health reasons must be documented and do not fall under category of personal time off.

ENGLISH LANGUAGE AND WRITING SUPPORT

The office of Graduate Centre for Academic Communication (formerly English Language and Writing Support) will provide professional development to graduate students who wish to improve their oral and written communication skills. The Office offers individual consultations and a range of workshops and free non-credit courses for both native and non-native speakers of English. Their aim is to teach students to express their ideas precisely, edit their work effectively, and present their research confidently. For more information and registration, please visit <http://www.sgs.utoronto.ca/currentstudents/Pages/GCAC.aspx>.

PLAGIARISM

It is the student's responsibility to be aware of and avoid plagiarism in his or her work. The University's understanding of plagiarism is found in the Code of Behaviour on Academic Matters and includes the following statements:

"It shall be an offence for a student knowingly ... to represent as one's own idea or expression of an idea or work of another in any academic examination or term test or in connection with any other form of academic work, i.e., to commit plagiarism."

Wherever in the Code an offence is described as depending on "knowing", the offence shall likewise be deemed to have been committed if the person ought reasonably to have known.

All students should consult the following website:

<http://www.sgs.utoronto.ca/facultyandstaff/Pages/Academic-Integrity.aspx>. There is a link in this website to an article titled Plagiarize; it is a very useful document.

CRISIS AND SUPPORT SERVICES FOR STUDENTS

Counselling and Psychological Services <i>Counselling for emotional or psychological problems</i> Psychiatric Service <i>Assessment and treatment of emotional or psychiatric concerns</i>	416-978-8070
Student Crisis Response Program Coordinator <i>Available to consult about students in distress or difficulty</i>	416-946-7111
Community Safety Office <i>Available to consult with students, staff and faculty concerned about issues of personal and community safety</i>	416-978-1485
Assault Counselor/Educator <i>Available to consult with staff and faculty concerned about issues related to assault</i>	416-978-0174
Campus Chaplains' Office <i>University chaplains representing major world religions available for consultation on a range of issues, from religious practice to personal concerns.</i> http://www.studentlife.utoronto.ca/mf/chaplains	416-946-3120 or 416-946-3119
Sexual and Gender Diversity Office <i>Available to consult on issues of concern to the LGBTQ community</i>	416-946-5624
Centre for International Experience <i>Offers consultation on issues or concerns related to culture and ethnicity</i> http://cie.utoronto.ca	416-978-2564
Health & Wellness Counselling Service at SGS	416-978-8070

<i>To better meet the diverse needs of the graduate student population, graduate students can access counselling services at the School of Graduate Studies, 65 St. George St.</i>	
Counselling and Learning Skills Services <i>An hour is set aside each day to see students on an emergency basis</i>	416-978-8070
Psychiatric Service <i>Call Psychiatric Service and identify yourself and the situation to the receptionist. If it is necessary to speak to the clinician-on-call immediately, say so. The receptionist will inform the clinician-on-call, who will respond to the caller. The clinician will assess the situation and determine a course of action.</i>	416-978-8070
Health Service <i>Caller should tell reception the matter is urgent. Reception will immediately notify a nurse, who will screen the student for care.</i>	416-978-8030

After Hours Emergencies

Gerstein Centre <i>Free, voluntary, and confidential crisis intervention service over the phone and in-person. Available 24 hours a day, 7 days a week.</i>	416-929-5200
Distress Centre <i>Provides a 24-hour telephone crisis hotline.</i>	416-408-4357
University of Toronto Police	416-978-2222

Last updated: **August 24, 2018 12:20 pm**

Appendix A

COURSE MODULES 2018 - 2019			
Mandatory modules			
Introductory Biostatistics	Sept.10 - Sept.14		
Scientific Exposition and Ethics	Sept.14 - Nov.2		
BIOLOGY	DATES	PHYSICS	DATES
Cell Signaling & Metabolism	Sept.13 - Oct.25	Advanced Magnetic Resonance Imaging	Nov.7 - Dec.19
Clinical & Experimental Radiobiology I & II	Apr.8 - Apr.12	Advanced Ultrasound	Feb.27 - Apr.17
Experimental Models for Cancer Research	Nov.1 - Dec.13	Biological Imaging	Mar.4 - Apr.29
Predictive Oncology & Therapeutics	Mar.4 - Apr.29	Biophysics of Focused Ultrasound, Thermal Biophysics	Oct.30 - Dec.18
Quantitative Cancer Genomics	Jan.10 - Feb.21	Cell and Molecular Biology for Physicists	Mar.7 - Apr.25
Structural Biology & Proteomics	Mar.7 - Apr.25	Introduction to Bio-Microscopies	Jan.15 - Feb.26
		Introduction to Biophotonics	Mar.8 - Apr.26
		Magnetic Resonance Imaging	Mar.5 - Apr.23
		Medical Device Commercialization Essentials	Sept.13 - Dec.6
		Medical Device Innovation & Entrepreneurship	Sept.6 - Nov.29
		Nanotechnology for Medicine	Jan.16 - Feb.27
		Overview of Medical Imaging	Sept.12 - Oct.24
		Ultrasound Overview	Jan.11 - Feb.22
PLANNED COURSE MODULES 2019 - 2020			
Mandatory modules			
Introductory Biostatistics			
Scientific Exposition & Ethics			
BIOLOGY	PHYSICS		
Cancer Immunotherapy	Advanced Ultrasound		
Clinical & Experimental Radiobiology I & II	Biological Imaging		
Development, Stem Cells and Cancer	Biophotonics		
Epigenetics	Biophysics of Focused Ultrasound		
Radiation Biology and DNA Repair	Cell Biology for Physical Scientists		
Tumour Microenvironment	Clinical Imaging for Physical Scientists		
	Introduction to Bio-Microscopies		
	Magnetic Resonance Imaging		
	Medical Device Innovation and Entrepreneurship		
	Overview of Medical Imaging		
	Ultrasound Overview		

Appendix B

Research Summary Report

Completion of this report is mandatory for all students once a Supervisory Committee Meeting has been scheduled. Students are to complete the report and distribute it to the Supervisory Committee members at **least 1 week** before the committee meeting. The completed report should be up to 3 pages long (see below for guidelines for each section). After the meeting, the original hard copy is to be handed in to the MBP office (Daphne Sears or Donna-Marie Pow) with the original hard copy of the completed and signed Supervisory Committee Meeting Report form

Student Name:

Date of meeting:

(ddmmyyyy)

Supervisor:

Committee members:

Project title:

Structure of the Research Summary Report:

- *Research Summary (1 page)*
- *Response to committee's recommendation (mandatory at second and subsequent committee meetings)*
- *Students who are in their 4th year should also submit a detailed 1 page "plan of completion"*

1. Research Summary (Point form, one page max)

This section should include:

- *Rationale (what is known, what is unknown, why we need to know)*
- *Hypothesis*
- *Specific aims/Methods and Results, highlighting progress since last meeting*
- *Conclusions/Impact/Outcome*
- *Future directions*

2. Response to Committee's recommendations from last meeting (1 page)

(Point form; refer to Question 10 on the Supervisory Committee Meeting form completed at last meeting)

Date of last meeting: _____

Appendix C
STUDENT SUPERVISORY COMMITTEE MEETING REPORT

Student: _____ Student Number: _____ Meeting Date: _____ (yyyymmdd)

Thesis/Project Title: _____

Committee Members	Name	Signature	Present	Absent
<i>Supervisor</i>				
<i>Member</i>				
<i>Member</i>				
<i>Secretary*</i>				
<i>Co-Supervisor</i>				

Note: *The secretary must be an MBP Faculty member.

Information for students:

i) Frequency of Committee Meetings:

- MSc students: every 6 months (If an MSc student has been in the program for more than two years, both the faculty member and the student must notify the Chair and must include a plan for degree completion.)
- PhD students with MBP for under 4 academic years*: every 12 months
- PhD students with MBP for over 4 academic years*: every 6 months

*The 4 academic years include time in the Masters program prior to re-classifying.

ii) **Transcript:** Students are expected to bring a recent print-out of their unofficial ACORN transcript to the meeting.

iii) **Fields to be pre-filled by the student prior to committee meeting are shaded in grey**

1. Is this the FIRST committee meeting? Yes / No

Last committee meeting date: _____ (ddmmyyyy)

Recommended date for next committee meeting: _____

If the last committee meeting was over one year ago, please explain why there was a delay:

2. Was a completed Research Summary Report submitted to each committee member? Yes / No

3. Is the project likely to produce a satisfactory thesis within a reasonable amount of time? Yes / No

Date program started: MSc _____ PhD: _____

4. Does the current committee have the expertise to advise on this project? Yes / No

If individual expertise would be useful, who would the committee recommend? _____

5. Progress since last meeting:

Unsatisfactory Satisfactory Good Very Good Excellent N/A (First meeting)

Summary of progress:

1.

2.

3.

6. Evaluation of the student's knowledge and understanding in:

The area of student's research:	<i>Unsatisfactory</i>	<i>Satisfactory</i>	<i>Good</i>	<i>Very Good</i>	<i>Excellent</i>
General Knowledge:	<i>Unsatisfactory</i>	<i>Satisfactory</i>	<i>Good</i>	<i>Very Good</i>	<i>Excellent</i>

Areas for improvement:

- 1.
- 2.
- 3.
- 4.

7. Are there any major scientific problems? Yes / No

If **yes**, please explain:

8. Has the student completed all laboratory experiments required to write thesis? Yes / No

If **yes**, the student has a maximum of **4 months for an MSc** and **6 months for a PhD** in which to prepare thesis and present signed Form 100 or PHD Defense form. A continuation of funding beyond this date requires approval of the Chair (see Graduate Handbook).

9. List all courses/modules you have taken which are required for the completion of your program:

_____	_____	_____
_____	_____	_____
_____	_____	_____

10. What are the specific scientific recommendations made to the student and supervisor? (Future directions)

- 1.
- 2.
- 3.
- 4.
- 5.

11. Student-Supervisor relationship (Please note that the Supervisor will be asked to leave the room by the committee meeting chair at the completion of the meeting).

Students and their supervisors are always encouraged to think about and discuss issues pertaining to their working relationship prior to the Supervisory Committee Meeting. To further encourage this process, students are provided an opportunity to meet with the supervisory committee members in the absence of their supervisor.

Additional issues can also be directly discussed with the graduate coordinators while major issues should be brought to the attention of graduate coordinators or the MBP chair in case of conflicts with the graduate coordinators (see below).

Students are encouraged to reach out and discuss their projects with committee members beyond the supervisory committee meeting.

12. Please list the following accomplishments since the student's last meeting:

Publications:

Patents:

Conference presentations:

Scholarships awarded & applied for:

13. Student's comments:

If necessary, additional pages of student/committee comments/information may be attached.

Student's signature: _____

AFTER THE MEETING, PLEASE MAKE COPIES OF THIS FORM AND DISTRIBUTE ONE COPY TO EACH MEMBER OF THE SUPERVISORY COMMITTEE.

The following documents are to be submitted to the Medical Biophysics office*:

- 1) Original hard copy of Supervisory Committee Meeting Report Form
- 2) Completed Research Summary Report

*Sunnybrook students: Donna-Marie Pow, Sunnybrook, Room S655;
 *Downtown students: Daphne Sears, PMCRT, Ste. 15-701

Students encountering issues in the lab are encouraged to speak with one of our Graduate Coordinators or the MBP Chair

Downtown:
 Dr. Razq Hakem
 PMCRT, 101 College Street, Rm. 13-310
 Phone: (416) 634-8780
 E-mail: Razq.Hakem@uhnresearch.ca

Uptown:
 Dr. Anne Martel
 2075 Bayview Avenue, Room M6-609
 Phone: (416) 480-5702
 E-mail: a.martel@utoronto.ca

MBP Chair:
 Dr. Thomas Kislinger
 PMCRT, 101 College Street, Rm. 9-807
 Phone: (416) 581-7627
 E-mail: thomas.kislinger@utoronto.ca

Appendix D

Faculty Research Themes

Biomedical Imaging				
Akens	Wright	Jaffray	Vitkin	Iscove
Bailey	Yaffe	Julius	Wilson	Julius
Bjerknes	Zarrine-Afsar	Jurisica	Wong	Jurisica
Boutros	Zheng	Keller	Woodgett	Kerbel
Burns		Kerbel	Wouters	Khokha
Chen	Cancer Diagnosis and Therapy	Khokha	Yaffe	Kislinger
Cunningham	Ailles	Kislinger	Zacksenhaus	Liu, F.-F.
Czarnota	Andrews	Lau	Zarrine-Afsar	Liu, G.
DaCosta	Arrowsmith	Lilge	Zheng	Liu, S.
Demore	Attisano	Liu, F.-F.		Lupien
Ghugre	Bailey	Liu, G.	Cancer Mechanisms and Models	Mak
Goertz	Boutros	Liu, S.	Ailles	Malkin
Graham	Bratman	Lupien	Andrews	Marsden
Haibe-Kains	Burns	Mak	Arrowsmith	Mazhab-Jafari
Hedley	Chan	Malkin	Attisano	McGlade
Hynynen	Czarnota	Martel	Boutros	Minden
Jaffray	DaCosta	McGlade	Bratman	Notta
Kerbel	Danska	Minden	Chan	Paige
Lau	De Carvalho	Nieman	Cunningham	Penn
Lerch	Demore	O'Reilly	DaCosta	Privé
Lilge	Done	Pai	Danska	Pugh
Macgowan	Edwards	Paige	De Carvalho	Raught
MacIntosh	Filmus	Penn	Done	Reedijk
Martel	Gallie	Pugh	Edwards	Reimand
Mazhab-Jafari	Gariepy	Raught	Filmus	Rottapel
Nieman	Goertz	Rauth	Gallie	Schimmer
Ottensmeyer	Haibe-Kains	Reedijk	Gariepy	Spaner
Ross	Hakem	Reimand	Hakem	Stambolic
Sadeghi-Naini	Harding	Sadeghi-Naini	Harding	Stanisz
Santyr	He	Schimmer	He	Tabori
Sled	Hedley	Spaner	Hedley	Taylor
Stanisz	Hill	Stambolic	Hill	Tiedemann
Stefanovic	Hoffman	Stanisz	Hoffman	Trudel
Strother	Huang	Tabori	Huang	Tsao
Vitkin	Hynynen	Taylor	Irwin	Woodgett
Wilson	Irwin	Tiedemann		Wouters
		Trudel		Zacksenhaus
		Tsao		Zheng

Cardiovascular Sciences

Burns
Chakrabartty
Cunningham
Ghugre
Goertz
Keller
Macgowan
MacIntosh
Marsden
Rottapel
Rubinstein
Sled
Strother
Wright

Mak
Malkin
Martel
Mazhab-Jafari
Notta
Privé
Pugh
Reimand
Sadeghi-Naini
Sled
Stefanovic
Strother
Tabori
Taylor
Yaffe

Vitkin
Wilson
Wright
Zarrine-Afsar
Zheng

Neuroscience

Attisano
Chakrabartty
Chen
Fraser
Graham
Hynynen
Lerch
Lilge

MacIntosh
Nieman
Ross
Rubinstein
Sled
Stanisz
Stefanovic
Strother
van der Kooy
Wong
Woodgett

Stem Cells and Regenerative Medicine

Ailles
Attisano
Bjerknes
Chan
Ghugre
Hoffman
Iscove
Julius
Keller

Khokha
Liu, F.-F.
Lupien
Marsden
McGlade
Minden
Paige
Pugh
Rottapel
Santyr
Schimmer
Tabori
van der Kooy
Wong
Wright

Data Science and Computational Biology

Andrews
Bjerknes
Boutros
Bratman
Chen
Czarnota
Danska
De Carvalho
Edwards
Gallie
Graham
Haibe-Kains
He
Hoffman
Huang
Jaffray
Jurisica
Khokha
Kislinger
Lau
Lerch
Lupien

Image Guided Therapy & Device Development

Akens
Burns
Chen
Cunningham
Czarnota
DaCosta
Demore
Gallie
Ghugre
Goertz
Graham
Hynynen
Jaffray
Kerbel
Lau
Lilge
Liu, F.-F.
O'Reilly
Ottensmeyer
Sadeghi-Naini
Santyr

Structural Biology

Andrews
Arrowsmith
Chakrabartty
Edwards
Fraser
Gariepy
Ikura
Mazhab-Jafari
McGlade
Minden
Ottensmeyer
Pai
Privé
Rottapel
Rubinstein
Stambolic

Appendix E
FORM 100

The student and supervisor should identify 5 members of the examination committee (see Graduate Student Handbook under Examination Committees for further information) - the MBP office will select the additional member(s).

Form 100 should be handed into the MBP office at least 3 weeks before the date of any examination

PLEASE PRINT OR TYPE

Student's Name: _____ Student Number: _____

Email Address: _____

Supervisor: _____

Type of Examination: MSc Oral Reclassification Exam Qualifying Exam

Thesis/Proposal Title: _____

The undersigned have read the above thesis/proposal and have passed their comments on to the student.

Supervisory Committee Members (Names)

Name	Signature	Date
Supervisor: _____	_____	_____
Committee Member: _____	_____	_____
Committee Member: _____	_____	_____
Committee Member: _____	_____	_____

All committee members should read the thesis/proposal and recommend additional examination committee members prior to the scheduling of the oral defense.

An examination cannot be scheduled until the committee members have read the thesis/proposal and recommended examination committee members.

Examination Committee Members (Names)

Outside Students Stream: _____

Other Faculty Member*: _____

(External to MBP if reclassification) Dept: _____ Email: _____
(check that the Faculty Member has an SGS appointment - see MBP Graduate Student Handbook)

Examination Date & Time:

Alternative Date & Time: _____

**If the committee member is outside of UHN or Sunnybrook, please provide their email address and the name of their department.*

Departmental Use Only:	
MBP Executive Member: _____	Other MBP Member: _____
Approved by: _____	Date: _____
Room #: _____	Catering: _____

Appendix F

Final Committee Meeting Report for PhD Oral

As of January 2003, there are two steps to the Final Committee Report: the Supervisory Committee must (a) approve of the choices for the Internal & External Examiners; and (B) indicate any comments, concerns and corrections that they might have about the thesis.

(A) Supervisor/Student: Please indicate 3 choices each for both the Internal¹ and External² Examiners. The potential examiners are to be discussed and approved at this Final Committee Meeting. Once approved by all members of the committee, the Supervisor then makes the initial contact with one of the internal examiners and one of the external examiners (see Graduate Student Handbook: PhD Thesis Defence for more information on the procedures for setting up the defence).

Internal UofT/External MBP Examiner	External Examiner
(1) _____	(1) _____
Name & Department	Name & Affiliation
(2) _____	(2) _____
Name & Department	Name & Affiliation
(3) _____	(3) _____
Name & Department	Name & Affiliation

Students Name: _____ Students Signature: _____ Date: _____

Committee Member's Name:	Signature	Approve of Examiners
Secretary	_____	Yes No
Supervisor	_____	Yes No
	_____	Yes No
	_____	Yes No

(B) Supervisory Committee's comments, concerns, corrections (these must be addressed by student before the Supervisory Committee will sign off on the PhD Thesis Defence Form (Appendix G). If these concerns are not satisfactorily addressed, this may cause a further delay in scheduling the PhD Oral.):

¹ Must not have been closely involved in the supervision of the thesis. This person must also have an arm's-length relation both with the Candidate and with the Supervisor.

² Should be a recognized expert on the subject of the thesis and should be external to the University as well as to its affiliated teaching hospitals and their research institute. Such an individual must be an Associate or Full Professor at his/her home institution or, if he/she comes from outside the academic sector, must possess the qualifications to be appointed to an academic position at this level. This person must also have an arm's-length relation both with the Candidate and with the Supervisor. Normally, this will exclude anyone who, in the past six years, has been a departmental colleague of the Candidate or Supervisor, has stood in a student-teacher relation with either of them, or has collaborated on a research project with either of them.

Appendix G
Ph.D. Thesis Defence Form

*This COMPLETED form must be submitted to the office at least **6 weeks**¹ before the proposed Ph.D. Thesis Defence date*

Students Name: _____

Email Address: _____ Student Number: _____

Thesis Title (PLEASE TYPE): _____

Confirmed Thesis Defence Date & Time: _____

Examination Committee: The quorum for voting members is 4; the maximum number allowed is 6 All examiners (except the External Examiner) must have a graduate appointment in the SGS, UofT.			
(1) Supervisory Committee (including Supervisor):			
	Name	Signature*	Date
Supervisor			
Committee member			
Committee member			
Committee member			
* Signature means committee member agrees that the thesis is complete and that the student is ready for the final oral			
(2) External Examiner (Outside of U of T)**:			
Name:		Position:	
Institution:			
Mailing Address:			
Phone Number:		Email Address:	
Area of Specialization:			
Examiner's Assistant (Name & Email address):			
** Must submit a written appraisal which must be given to candidate at least 2 weeks prior to the Thesis Defence Date			
(3) Other²:	Name	Graduate Appointment in which U of T Department?	Email Address
MBP faculty member			
Internal UofT/external to MBP			

¹ Only after this form is submitted to the MBP office can MBP ask SGS to select a Chair (non-voting) for the exam. SGS requires a minimum of 6 weeks from being first notified until the examination date (the winter holidays when the University is closed CANNOT be counted towards the 6 weeks).

² Must not have been closely involved in the supervision of the thesis

Departmental Use only:

Approval by Chair: _____ Date: _____

Seminar 4-204 / _____ Time: _____ Catering: _____

Oral Exam 15-710 / _____ Time: _____