Students,

Welcome to the Program in Molecular & Cellular Biosciences. This handbook will assist you with your transition into graduate school at OHSU. We know we may not answer every question you might have, but we think the information provided in these pages will be helpful during your first two years.

We are looking forward to a great year and wish you well in your academic pursuits.

Best,

Cheryl Maslen
Director, PMCB

Crystal Paredes
Crystal Paredes
Coordinator, PMCB
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New Student Check List

☐ Have final, official transcripts submitted to PMCB if necessary

☐ Complete background check and notify PMCB Coordinator you have done so.

☐ Complete any required immunizations

☐ Return the Immune Status Form to OHSU Health Services. See Immunizations on the Student Health Service web page for more information: http://www.ohsu.edu/xd/education/student-services/student-health/services/immunizations.cfm

☐ Complete required Big Brain Training: HIPPA, RAU, RCR & Integrity Training. Notify the PMCB Coordinator when you have done so. Big Brain:
  http://www.ohsu.edu/xd/about/services/integrity/training/bigbrain/index.cfm

☐ Complete required OHSU forms & return to PMCB Coordinator.

☐ Send 2”x2” jpeg format, passport style photo to PMCB Coordinator.

☐ Register for Courses: See the PMCB Guidelines for Course requirements.
  o Summer Term Registration opens 5/19
  o Fall Term – Registration opens 8/18

☐ Become familiar with Graduate Studies web page and policies
  http://www.ohsu.edu/xd/education/schools/school-of-medicine/academic-programs/graduate-studies/index.cfm

☐ Become familiar with PMCB web page and policies
  http://www.ohsu.edu/xd/education/schools/school-of-medicine/departments/basic-science-departments/molecular-cellular-biosciences/

☐ Become familiar with member department web pages and policies

☐ Begin contacting faculty to arrange lab rotations
Important Dates

*When do I need to be on campus?* If you are doing a summer rotation, you are required to attend the OHSU Orientation on June 30th. All others are expected to attend the PMCB Annual Retreat on September 26th & 27th. The retreat is being held at The Resort at the Mountain in Welches, Oregon. You are responsible for your transportation to and from the retreat. The PMCB Coordinator can assist with carpool options. Information about the retreat will be sent to you. Fall matriculates are required to attend OHSU Orientation on Sept. 29th. Department meet & greets will take place in week one as well. You are encouraged to attend.

*Mandatory OHSU Orientation:* Summer: June 30th     Fall: September 29th     12:30-6:00 PM

*When do classes start?* Classes begin Monday, September 29th

*When do I begin my first lab rotation?* Within one week of the start of each term.

*How do I find a mentor for my rotations?* Review availability sheet. Review faculty webpages within the departments you are interested in. Speak with faculty at the retreat and during department meet & greets. Contact faculty to ensure they are accepting rotation students. Confirm their appointment status with the PMCB Coordinator and submit a signed, Pre-Rotation Form as soon as your rotation is confirmed.

Course Registration

*How do I register for classes?* An email, with a username and password, was automatically generated and sent to the email account we have on file for you. If you have not received such an email, contact Pamela Burger in the Registrar’s Office at burgerp@ohsu.edu. The registration system, BANNER ISIS, can be located at: [http://www.ohsu.edu/registrar/ISISOnline.htm](http://www.ohsu.edu/registrar/ISISOnline.htm)

*Which classes do I need to register for?* You must register for the following courses for Fall Term.

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Instructor</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONJ 601-0¹</td>
<td>Research: PMCB (1st Year Only)</td>
<td>Maslen, Cheryl</td>
<td>6.5</td>
</tr>
<tr>
<td>CONJ 607</td>
<td>PMCB Seminar Series</td>
<td>Malen, Cheryl</td>
<td>.5</td>
</tr>
<tr>
<td>CONJ 650-01¹</td>
<td>Practice &amp; Ethics of Science</td>
<td>Duvoisin, Robert</td>
<td>1</td>
</tr>
<tr>
<td>CONJ 661-0</td>
<td>Structure &amp; Func. of Bio Mol.</td>
<td>David Farrens</td>
<td>4</td>
</tr>
<tr>
<td>CONJ 662-0</td>
<td>Genetic Mechanisms</td>
<td>Doris Kretzchmar</td>
<td>4</td>
</tr>
<tr>
<td>CONJ 670-0²</td>
<td>Foundations of Measurement Science</td>
<td>Monica Hinds</td>
<td>4</td>
</tr>
</tbody>
</table>

¹The PMCB Coordinator registers you for this course after you confirm you have completed the prerequisites for the course.

²This course is geared towards students interested in Quantitative Bioscience & Bioengineering. There are several pre-reqs & course director approval is required

Stipend Payments

Direct Deposit is the preferred method of payment. Please see the Stipend Payment Dates in the PMCB Student Handbook. If you do not elect Direct Deposit, you must provide the PMCB Office with your local address. Checks will be mailed to you by Accounts Payable.

4
FAQs Continued...

How much will my stipend payment be? $2,250 monthly based on an annual stipend of $27,000. However, your first check will include payments for September 29th & 30th if you matriculate in the Fall. This means your October check will be slightly larger than your others. Summer Matriculates will have normal September & October payments.

How do I elect Direct Deposit for my stipend payments? Complete the Direct Deposit form, include a voided check, complete the AP Residency Status form (if you haven’t done so already) and return to the PMCB office. The major banks in the area are: U.S. Bank, Washington Mutual, Bank of America, On Point Community Credit Union, and Advantis Credit Union.

Are taxes removed from my stipend check? No, they are not automatically deducted. Please work with your tax advisor to determine how to report your stipend income.

Housing
How do I find somewhere to live? There are several options for housing both on and off “the hill”. Take a few moments to look over OHSU’s housing website found at http://www.ohsu.edu/academic/acad/housing. For other housing information, you may find the following websites helpful:
http://portland.craigslist.org/
http://www.oregonlive.com/
http://www.portlandalliance.com/

Does OHSU provide temporary housing until I find an apartment? No.

Insurance
What do the medical benefits include? Medical, dental, vision, and prescription coverage is provided at no premium cost to the student.

When does my coverage begin? Your coverage will begin at the beginning of the term in which you matriculate and cover you year-round including summers.
http://www.ohsu.edu/xd/education/student-services/joseph-trainer-health-wellness-center/insurance-plan/index.cfm Additional benefits such as retirement and disability are not included.

How do I add dependents and/or a spouse to my insurance? If you have dependents that need to be covered, please contact Rick Goranflo in Graduate Studies to obtain the appropriate paperwork. You will be responsible for 20% of the cost of the premium for covered dependents and/or spouses. This coverage is only made available if your spouse and/or dependents do not have access to insurance via other means (i.e. employer).

Can I opt out of OHSU’s student health insurance? You may request a waiver if you already have approved coverage. More information can be found here:
PMCB PROGRAM CONTACTS

Cheryl Maslen, PhD
PMCB Director
CHH, Room # 14007
Mail Code: CH14M
Ph: 503-494-2011
Email: maslenc@ohsu.edu

Crystal Paredes
PMCB Coordinator
Mac Hall, Room # 4136
Mail Code: L102
Ph: 503-494-3467
Email: paredes@ohsu.edu or pmcb@ohsu.edu

DEPARTMENT CONTACTS

Biochemistry & Molecular Biology (BMB)
Peter Rotwein, MD
Department Chair
farrens@ohsu.edu
David Farrens, PhD
Graduate Program Chair
scottv@ohsu.edu
Valerie Scott
Department Coordinator

Cell & Developmental Biology (CDB)
Lisa Coussens, PhD
Department Chair
copenhav@ohsu.edu
Philip Copenhaver, PhD
Graduate Program Chair
bichler@ohsu.edu
Lola Bichler
Department Coordinator

Physiology & Pharmacology (PH2)
Beth Habecker, PhD
Interim Department Chair
duvoisin@ohsu.edu
Robert Duvoisin, PhD
Graduate Program Chair
leallara@ohsu.edu
Eva Leallara
Department Coordinator

Molecular & Medical Genetics (MMG)
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Department Chair
liskaym@ohsu.edu
Mike Liskay, PhD
Graduate Program Chair
frater@ohsu.edu
Jonna Frater
Department Coordinator

Cancer Biology (CanB)
Brian Druker, PhD
Department Chair
thayerm@ohsu.edu
Matt Thayer, PhD
Graduate Program Chair
bichler@ohsu.edu
Lola Bichler
Department Coordinator

Molecular Microbiology & Immunology (MMI)
Mary Stenzel-Poore, PhD
Department Chair
barklis@ohsu.edu
Eric Barklis, PhD
Graduate Program Chair
bichler@ohsu.edu
Lola Bichler
Department Coordinator

GRADUATE STUDIES CONTACTS

Graduate Studies Office
Rick Goranflo
503-494-6222
Graduate Studies Manager
somgrad@ohsu.edu
goranflr@ohsu.edu
Brenda Donin
Admin. Coordinator
doninb@ohsu.edu
Rita Rand
Admin. Coordinator
randr@ohsu.edu
Lorie Gookin
Admin. Coordinator
gookinl@ohsu.edu
General Stipend Information

The current annual stipend range is $27,000 – $28,500. First year PMCB students receive $27,000. You are paid once a month. Please see the stipend payment dates for specific dates your funds will be available. You will receive $2,250 per month. However, students who matriculate in the fall will see a slight increase in their first check in October. The October payment will be $2400 to include payment for two dates in September; the 29th & 30th.

Your stipend payment is made to you through Accounts Payable, not payroll as a Graduate Student. You are not considered an "employee" at OHSU.

Taxes are not withheld from your stipend payment and OHSU will issue a 1099 at the end of the tax year. You are responsible for any taxes you may owe. We encourage you to contact a tax consultant if you have any questions. OHSU is not allowed to offer legal advice regarding your taxes.

If you do not receive your stipend payment, notify the PMCB Coordinator Immediately.

Stipend Payment Dates for 2014

25 July 2014
22 August 2014
19 September 2014
24 October 2014
21 November 2014
19 December 2014

* 2015 Stipend payment dates are currently unavailable. However, this information will be available on the Central Financial Services webpage later in the year:
http://www.ohsu.edu/xd/about/services/financial-services/forms/schedules-calculators.cfm
School of Medicine
You will receive a copy of the Graduate Studies Policies & Guidelines during orientation. However, this information is currently available on the Graduate Studies website on the Forms & Policies page at: http://www.ohsu.edu/xd/education/schools/school-of-medicine/academic-programs/graduate-studies/admin-resources.cfm
Please take some time to familiarize yourself with the policies and guidelines; specifically the following: By-Laws, Guidelines & Regulations for Completion of Masters & Ph.D. Degrees and the Professional Conduct Policy

Registration
As an OHSU graduate student within PMCB, you are required to register every term for a minimum of 9 credits (minimum credits to be considered full-time).
Cheryl Maslen will go over the first year curriculum prior to the registration deadline.
You are responsible for registering online each term while you are in graduate school, except for your research credit during your first year rotations. The PMCB Coordinator will register you for research credit upon receipt of your Pre-Lab Rotation Form two weeks prior to the start of each term. You can register online at: http://www.ohsu.edu/xd/education/student-services/registrar/registration-information/index.cfm

Registrar and Financial Aid Office
If you need financial assistance to attend OHSU, please visit the Financial Aid Office, Mackenzie Hall, Room #1120. Federal aid applications are available beginning in December and should be received by the federal processor by March 1 to qualify for priority processing. Late applications are accepted, but funding may be exhausted in some programs. Additional information can be found in the OHSU publication, Student Financial Aid Explained which is available in the Financial Aid Office. The Registrar’s office provides a number of services including class registration, grade reports, and final transcripts. It is particularly important that you register for courses by the term deadlines listed in the academic calendar. The Registrar and Financial Aid offices also receive requests for financial aids and deferral of student loans. It should be noted that many actions that affect student stats are initiated at the program level before being officially recorded by the Registrar. These actions include change of grade, advancement to candidacy, request for oral exam and leave of absence. Graduate Studies Coordinators within each department can assist you with these procedures and other requests.
Registrar: http://www.ohsu.edu/xd/education/student-services/registrar/
Student Health Insurance

Student health coverage begins as soon as you arrive on campus, assuming that you have completed all the necessary paperwork. OHSU provides insurance to your dependents and pays 80% of the premium. You are responsible for paying the additional 20% directly to Aetna. If you desire dependent coverage, please contact the Graduate Studies office immediately.

Student Health Insurance Referral Requirement

Your health care needs can best be satisfied when an organized system of health care providers is utilized. If you are a student at OHSU, it is to your advantage to first seek treatment at the Student Health Service (SHS) in order to reduce your out-of-pocket expenses and coordinate care.

Student Health Services

Ph: 503-494-8665
Email: askshs@ohsu.edu
Hours: 8:30-4:40 closed for lunch between 12:45-1:30
Website: http://www.ohsu.edu/xd/education/student-services/student-health/

The Student Health Services is located in Baird Hall, Room #18. They provide complete primary outpatient care, preventative, acute and chronic medical care. Services include counseling, dermatology, gynecology, orthopedics, pediatrics and psychiatry.

Immunizations

Please refer to page 10 of this handbook for specific pre-entrance immunization requirements. It is very important to complete and return the immunization form found in the Required Documents Packet that the PMCB Coordinator emailed to you. You are also advised to check with your rotation labs in advance to see if they require additional immunizations. You may decline a vaccine only after receiving counseling by the Student Health Service, signing a formal waiver with your Dean of Students and giving the waiver to SHS for your file.
# New Student Immunization Requirements

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</thead>
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<tr>
<td>Td series and booster</td>
<td>Childhood series with date of completion and date of booster in last 10 years. Was booster a Tdap? Recommend Tdap if &gt; 2 years since last Td booster</td>
</tr>
<tr>
<td>Polio series</td>
<td>Childhood series with date of completion; adult booster date if received</td>
</tr>
<tr>
<td>Measles (Rubella)</td>
<td>Dates of 2 (measles or MMR) vaccines or positive titer; must submit copy of titer result</td>
</tr>
<tr>
<td>Mumps</td>
<td>Dates of 2 (mumps or MMR) vaccines or positive titer; must submit copy of titer result</td>
</tr>
<tr>
<td>Rubella</td>
<td>Date of 1 (rubella or MMR) vaccine or positive titer; must submit copy of titer result</td>
</tr>
<tr>
<td>Hepatitis B</td>
<td>Evidence and dates of series of 3 Hepatitis B vaccines and positive Hepatitis B surface antibody titer if series is complete; must submit copy of titer result, or evidence of prior infection.</td>
</tr>
<tr>
<td>Varicella</td>
<td>Evidence and dates of 2 Varicella vaccines, positive titer (must submit copy of result), or HCP-signed documented history of disease.</td>
</tr>
<tr>
<td>TB skin testing (TST)</td>
<td>- If you have had annual testing: Submit annual TST records with 2 not greater than 12 months apart, the most recent done within 12 months of matriculation.</td>
</tr>
<tr>
<td>(often called PPD)</td>
<td>- If you have not had annual TSTs: Do 2-step TB testing: 2 TB tests 1-3 weeks apart, the 2nd being done within 12 months of matriculation.</td>
</tr>
<tr>
<td></td>
<td>- If you have had a positive test: Submit a chest x-ray report and INH history.</td>
</tr>
<tr>
<td></td>
<td>If you had BCG vaccine, obtain Quantiferon TB Gold blood test and submit result. If positive, consider taking INH Preventive Therapy.</td>
</tr>
<tr>
<td></td>
<td>- You will need annual TB clearance while at OHSU.</td>
</tr>
<tr>
<td>Other</td>
<td>List names and dates of other vaccines received.</td>
</tr>
</tbody>
</table>
Mandatory Training for All Graduate Students-Big Brain

All training modules are available at:
http://www.ohsu.edu/xd/about/services/integrity/training/bigbrain/index.cfm

Required:

HIPAA Privacy Education
As part of the HIPAA privacy standards, OHSU is required to educate all members of its workforce on how HIPAA will affect their role here. The OHSU workforce includes all employees, students, faculty, staff and volunteers and may also include certain visitors. HIPAA training must be completed before student 10 card, computer access or physical access to areas containing protected health information (PHI) is granted or within 30 days of beginning duties at OHSU, whichever is sooner. Those who fail to meet this requirement are subject to corrective action, up to and including termination of their relationship with OHSU.

A Higher Standard: OHSU Respect at the University (RAU)
Everyone at OHSU, including employees, students, faculty and volunteers is required to complete the Respect at the University education. Federal and state courts have ruled that employers are compelled to train their workforce on the prohibitions of discrimination and harassment in the workplace. Furthermore, pursuant to OHSU policies, discrimination based on certain categories is strictly prohibited. This course is one of several mechanisms used to disseminate OHSU's expectations in order to prevent prohibited discriminations and harassment at the university. As OHSU's Code of Conduct expresses, respectful behavior is an expectation of all.

Integrity Education Booster
RCR for All (Responsible Conduct in Research)
RCR Animal Module & Module on Human Subjects * as needed during rotations
General Safety & Laboratory Safety *recommended, but not required

Required during lab rotations
In order to participate in lab-specific animal protocols or human subject protocols, you will need to be added to the IACUC protocol and or the Human Subjects IRB protocol for the lab in which you are rotating. Each lab will be different, so you need to do this for each rotation if animals or human subjects are involved. It is your responsibility to remind the PI at the start of your rotation.

Very Important: Please remember your login & password to the Big Brain site.
Cashier's Office
Ph: 503-494-8243 or 1-800-775-5460
Location: Baird Hall 301
Hours: Monday-Friday 8:00-3:45
Summary of Services
  Disburse student financial aid and process payments to student accounts
  Receive and record revenues from various departments including bookstores, cafeterias, patient areas, parking & research services.
  Distribute disbursement checks from Accounts Payable, adjustment checks from Payroll and checks from the Foundation.
  Oversee direct deposit of student financial aid refunds.

Change of Address
You are responsible for updating your address in ISIS. You can do that at:
http://www.ohsu.edu/registrar/ISISOnline.htm
You are also responsible for notifying the Graduate Studies and PMCB Offices. You are also encouraged to notify Accounts Payable.

Computer Access
The PMCB Coordinator will request your computer access. Typically you are granted access one week prior to the start of your first term. To learn more about managing your OHSU email system, visit: http://www.ohsu.edu/xd/about/services/technology/itg/

March Wellness
Current full-time students are entitled to use the March Wellness and Fitness Center. The center has a pool, basketball court, classroom space and fitness equipment. The center also offers many personal wellness and fitness classes. March Wellness is located at the South Waterfront Campus in the Center for Health and Healing. OHSU students must present student ID cards to use the Center.
Identification Cards

Student ID Badges should be picked up during the all campus OHSU Orientation. ID Badges not picked up during orientation will be destroyed within one week. Re-issues are assessed a fee and students are responsible. To receive your student identification card you are required to complete the prior to the orientation:

BIG BRAIN TRAININGS
   HIPAA
   Respect at the University
   Integrity Education Booster

Background Clearance
Immunizations Completed

ID cards must be worn conspicuously while on campus. You may be asked to show your ID card at any time. You will be required to show it when boarding the OHSU Tram at CHH. Lost, stolen or damaged cards must be reported to Public Safety immediately at 503-494-7744. You will be responsible for the replacement fee.

Library Card and Access

Information Desk: 503-494-3462
Circulation Desk: 503-494-3460
General Email: library@ohsu.edu
Reference Email: refer@ohsu.edu
Website: www.ohsu.edu/library

We strongly encourage you to get a library barcode. You will need a barcode for checking out materials, using the Summit interlibrary monograph loan system and accessing resources from off campus. You can go to the 3rd floor Circulation Desk in the OHSU Library and apply for a barcode. Alternatively, you can fill out a form and have the barcode issued electronically at: http://www.ohsu.edu/xd/education/library/services/forms/barcode.cfm

The library offers a variety of reference and research assistance, including instruction in advanced database searching, bibliographic management and author rights/copyright management. For more information please see:
http://www.ohsu.edu/xd/education/library/research-assistance/index.cfm

Jackie Wirz is the Biomedical Science Information Specialist and is the library liaison to PMCB students. She is a wealth of knowledge. If you need any research assistance, she can be contacted directly. Jackie Wirz: wirzj@ohsu.edu
Office of Academic and Student Affairs
Ph: 503-494-7878
Location: Baird Hall, Room #1028
Website: http://www.ohsu.edu/academic/acad/
Provost for Academic and Student Affairs has the overall responsibility for the Bookstore, Financial Aid, Fitness & Sports Center, Health Services, Registrar, student organizations and other support functions including food services and vending machines. In addition, this office coordinates policies and programs with the deans of students of each school. Student Affairs assists individual students and student groups with a variety of concerns and communicates student opinions throughout the university. The Office of Student Affairs welcomes students’ viewpoints on programs, policies, procedures and facilities, positive or negative.

Student Access
Ph: 503-494-0082
Email: studentaccess@ohsu.edu
Website: http://www.ohsu.edu/student-access

Our program is committed to all students achieving their potential. If you have a disability or think you may have a disability (physical, learning, hearing, vision, psychological) which may need a reasonable accommodation, please contact Student Access to discuss your needs. Because accommodations can take time to implement, it is important to have this discussion as soon as possible. All information regarding a student’s disability is kept in accordance with relevant state and federal laws.

Parking and Bus Passes
Ph: 503-494-8283
Email: parking@ohsu.edu
Website: www.ohsu.edu/parking
Parking on campus is extremely limited. Monthly parking is available, contact the parking office for current monthly rates. Daily passes are offered on a space-available basis. Parking passes are available for full-day, half-day and two hour time periods. Please contact the parking office for current daily rates. OHSU offers Tri-Met passes at a substantially discounted rate to students who are enrolled in classes on a full-time basis (9.0 or more credits).
PMCB ACADEMIC GUIDELINES

The following guidelines apply to all students who enter the Program in Molecular and Cellular Biosciences (PMCB) and comply with the guidelines and requirements in the By-Laws of the Graduate Council, By-Laws of PMCB and the regulations and guidelines for thesis preparation and defense. Additionally students should be familiar with important guidelines contained in the OHSU Graduate Studies Handbook.

During the first two years of the PMCB program a student will:

Year 1:
- register for a minimum of 9 and maximum of 16 credits per term
- complete PMCB conjoint course requirements
- complete three laboratory rotations
- give one presentation based on a rotation in the Research Rotation Talk Course (CONJ 660)
- attend department seminars for rotation laboratory
- attend all PMCB sponsored seminars and participate in associated journal clubs
- choose thesis advisor and select departmental program for completion of Ph.D.
- take the Comprehensive Exam

Year 2:
- register for a minimum of 9 and maximum of 16 credits per term
- work with department to form Qualifying Exam Committee
- complete PMCB conjoint elective course requirements if necessary
- complete required and elective courses for selected department
- attend all PMCB sponsored seminars when available
- attend all Department sponsored seminars
- take the Qualifying Exam
- form Defense Advisory Committee

REQUIRED PMCB GRADUATE COURSES FOR YEAR ONE

It is imperative that students discuss their academic plan with their first year advisor before registering for classes.

Fall Term
- CONJ 601 Research Rotation variable credits
- CONJ 607 PMCB Seminar Series .5 credits
- CONJ 650 Practice & Ethics of Science 1 credits
- CONJ 661 Structure & Function of Biological Molecules 4 credits
- CONJ 662 Genetic Mechanisms 4 credits
- CONJ 670 Foundations of Measurement Science 4 credits (QBB)
- Fall Term Credit Total up to 16 credits

Winter Term
- CONJ 601 Research Rotation variable credits
- CONJ 607 PMCB Seminar Series .5 credits
- CONJ 660 PMCB Research Rotation Talks 1 credit
- CONJ 663 Bioregulation 4 credits
- CONJ 664 Molecular & Cell Biology 4 credits
- CONJ 671 Analysis in Quantitative Science 4 credits (QBB)
- Winter Term Credit Total up to 16 credits
Spring Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONJ 601</td>
<td>Research Rotation</td>
<td>variable</td>
</tr>
<tr>
<td>DEPT 606</td>
<td>Department Journal Club</td>
<td>variable</td>
</tr>
<tr>
<td>DEPT 660</td>
<td>PMCB Seminar Series</td>
<td>.5 credits</td>
</tr>
<tr>
<td>CONJ 665</td>
<td>Development, Differentiation and Cancer</td>
<td>3 credits</td>
</tr>
<tr>
<td>CONJ 667</td>
<td>Organ Systems</td>
<td>3 credits</td>
</tr>
<tr>
<td>CONJ 668</td>
<td>Molecular Biophysics &amp; Experimental Bioinformatics</td>
<td>3 credits</td>
</tr>
<tr>
<td>CONJ 669</td>
<td>Principles of Chemical Biology</td>
<td>3 credits</td>
</tr>
<tr>
<td></td>
<td>Spring Term Credit Total</td>
<td>up to 16 credits</td>
</tr>
</tbody>
</table>

Summer Term

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CONJ 608A</td>
<td>PMCB Comprehensive Exam</td>
<td>8 credits</td>
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<tr>
<td>DEPT 601</td>
<td>Research Rotation</td>
<td>8 credits</td>
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<td></td>
<td>Summer Term Credit Total</td>
<td>16 credits</td>
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NOTES TO COURSE REQUIREMENTS

1. Students may test out of CONJ 661-664. One week before fall term, a student may request permission from the PMCB director and relevant CONJ course directors to take all of the previous year’s exams for a particular course. Students must receive a score of 80% or better on the entire exam to place out of the course. This option is available once a year only in the week prior to fall term. Students must still register for the required number of credits.

2. Students choose a journal club offered by one of the five basic science departments during Spring Term. You are encouraged to register for a journal club in the department in which you plan to join.

3. Students complete two out of the following four courses, CONJ 665, 667, 668, or 669, and have until the end of spring term of the second year to complete them. Some courses may not be offered every year.

4. For MD/PhD students only: MSCI 613, Systems Processes and Homeostasis will be accepted instead of CONJ 667 Organ Systems. Students must make the request in writing to the PMCB Director to make the substitution.

5. A student may request permission to substitute an advanced graduate course of equal or greater credit for one of the required CONJ spring courses. They must identify which course they want to substitute for the CON course and the reason for the substitution. After approval is given from the program director, the student must register for that course by the end of the spring registration period. This option is valid for ONE Spring term course ONLY. Requests must be made to pmbc@ohsu.edu at least one week in advance of the Spring term registration deadline. Allowable PMCB Elective Substitutions include:
   - MBIM 608 Advanced Virology
   - MBIM 612 Advanced Immunology
   - MBIM 615 Dynamic Interface between Pathogen & Host
   - MGEN 622 Eukaryotic Genetics

REQUIRED PMCB GRADUATE COURSES FOR YEAR TWO

Fall, Winter, and Spring terms

Courses, seminars, and research requirements in the second year of study vary depending on the program the student selects for completion of their Ph.D. Details for the individual programs for the second and subsequent years are available from the individual member departments. If necessary, students complete their spring CONJ course requirements in the Spring term of their second year (see note #3 above). Up to 16 credits will be taken each quarter.

Summer term

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<tr>
<th>Course</th>
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<tr>
<td>CONJ 608B</td>
<td>PMCB Qualifying Exam</td>
<td>8 credits</td>
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DEPT 601 Research Rotation 8 credits
Summer Term Credit Total 16 credits

GPA AND ACADEMIC PROBATION
(for more information see the Graduate Studies By-Laws)

The School of Medicine requires students to maintain a grade point average of 3.0. A student receiving a cumulative GPA below 3.0 is automatically put on academic probation. The grade of Incomplete is reserved for circumstances beyond control of the student (i.e. illness) preventing completion of course requirements by the end of term AND where it is possible to complete requirements within one subsequent term.

Students failing a semester of research credits (i.e. receives a NP-No Pass) are immediately placed on academic probation. To return to good standing, the student must obtain a passing grade on the next term of the Research (and all subsequent terms). Failure to do so constitutes grounds for termination from the program.

A student placed on academic probation because of grades must obtain a cumulative grade point average of at least 3.0 within one academic term. A student that fails to do so may be recommended for dismissal for inadequate scholarship, at the discretion of the graduate studies program in which he or she is enrolled.

Students placed on academic probation will be required to meet with the PMCB Steering Committee to discuss their remediation plans for removing themselves from probation.

PMCB ADVISORY COMMITTEE (PAC)

Initial advising will be provided by members of the PMCB Advisory Committee (PAC) made up of PMCB faculty knowledgeable in all aspect of graduate training in the School of Medicine at OHSU. PAC advising and mentoring provides consultation for PMCB students for academic and non-academic concerns. At the time of matriculation, each student is assigned a PAC advisor. PAC advisors are familiar with academic requirements of all five participating graduate programs, as well as the Graduate Council By-Laws, Student Handbook and general School of Medicine regulations.

PAC (1st year) Advisors:

1. Meet with the student during Orientation.
2. Meet with the student at least once each term.
3. Review and advise regarding rotation decisions, course choice, and registration.
4. Review the student's academic record and written rotation performance summary at the end of each term.
5. Promptly meet with student placed on academic probation to formulate a plan for amelioration.
6. Report any concerns to the PMCB Steering Committee and/or the PMCB Director.

Advising responsibilities transfer from PAC advisor to thesis advisor once a student has selected and joined their thesis lab and department.

FIRST YEAR LAB ROTATIONS

All PMCB students undertake research rotations in three different laboratories during the first nine months (three academic terms) of the graduate program. Students are eligible to rotate in PMCB member faculty labs only. Information used to help identify labs of interest for research rotations can be obtained by speaking with potential mentors, first year advisors, faculty and students, and by viewing faculty profiles online. Rotation
arrangements are made by the student directly with the mentor, but all students must comply with the following requirements when arranging rotations.

Requirements for Requesting a Research Rotation:
1. PMCB faculty status for the potential research mentor must be confirmed by the PMCB office prior to arranging a rotation. It is the student’s responsibility to inquire about PMCB faculty status well in advance of arranging a rotation.
2. Proposed rotations must be approved in advance by the 1st year academic advisor and the PMCB director.
3. The PMCB Pre-Rotation form must be completed by the prospective faculty mentor. This is initiated by the student.
4. The Pre-Rotation form must be signed by the student’s first year advisor.
5. The completed Pre-Rotation form must be turned into the PMCB office two weeks before the start of each term. The only exception to the two week deadline is the first rotation, which must be set up by the first week of fall term.

Students are strongly encouraged to start considering options for subsequent rotations well in advance of each term. Students should discuss the specifics of their rotation project with the mentor prior to joining the lab. The ultimate purpose of lab rotations is for the student to identify a thesis mentor. Rotations should be chosen carefully and be undertaken with faculty who will be able to support the student during their thesis study, and who can provide a well-defined project as the basis of the thesis.

It is possible for students to begin their first rotation in the summer term prior to fall term of the first year. To do so, students must contact the PMCB Director at least two weeks prior to the start of summer term to get permission for an early start and approval of their summer term rotation mentor. Students considering rotations on the West Campus are encouraged to do those rotations either the summer term prior to the first year or spring term to avoid the complications of commuting to the main campus to attend the required courses. Students who do a summer term rotation are required to join a thesis lab at the end of their third rotation winter term. It is critical to inform rotation mentors that you have done a summer rotation and make certain they are aware that they must make a decision about the availability of their lab by the end of winter term. Students who do summer term rotations should avoid rotating with mentors who are not willing to commit to the start of a thesis commitment spring term.

Students are expected to spend a minimum of three hours for every research credit hour per week in the lab. For example, if a student is registered for 8 credits of research they should spend a minimum of 24 hours per week engaged in lab activities to familiarize themselves with research projects and the laboratory environments of PMCB faculty. In consultation with rotation mentors, students are strongly encouraged to establish expectations prior to each rotation.

Each student and faculty rotation mentor will complete a written evaluation of the rotation that may be shared with student advisors, program directors, and Qualifying Exam committees. Students and their rotation mentors are required to meet to discuss the evaluation of the student’s performance at the end of the rotation. Students’ evaluations of mentors will be sent to the student’s first year advisor, but held by the PMCB office for one year prior to release to mentors. This is to encourage an honest and constructive evaluation of the mentor and the rotation experience. Evaluations will be kept in the student file by the PMCB Coordinator.

After successful completion of three research rotations, students select a faculty member to serve as their thesis mentor. The decision of a student to enter into a laboratory to pursue thesis research is dependent upon a joint
agreement between the faculty member and the graduate student, and is subject to approval by the PMCB Director. Conditional approval based on an agreement that there will be a co-mentor will be at the discretion of the thesis department chair and the PMCB Director. The thesis mentors must be members of both School of Medicine Graduate Faculty and PMCB faculty.

**THESIS LAB SELECTIONS/DEPARTMENT SELECTIONS**

As a student approaches the end of their third research rotation decisions about joining a thesis lab and PMCB member department are made. It is the student’s responsibility to secure a position with a thesis mentor, selected from one of the three rotations done in the previous nine months. Once a mentor has agreed to accept a student into their lab the mentor and/or department take over funding responsibilities and the student notifies the PMCB Coordinator to initiate the Mentor Assignment Form. This process should be completed by the beginning of the appropriate term; if a student begins their rotations in the summer, Spring term; for students who begin their rotations in the fall, Summer term. Once a thesis mentor has been selected registration for research credits transfers from CONJ 601 to DEPT 601 with the selected mentor.

**FIRST YEAR ROTATION PRESENTATIONS**

Once a year, generally during the Winter term, first year students make a presentation in a public forum. The Research Rotation Talk Course, CONJ 601 offers the opportunity for first year students to summarize their laboratory rotation experience in a formal setting, while providing them with both a speaking opportunity among their peers and a forum in which to ask probing questions during presentations. Presentations will be ten minutes in length followed by a five minute question and answer period. Students are strongly encouraged to practice their presentations with lab mates and seek input from their rotation mentors. Attendance is required by all first year students.

**PMCB SEMINARS/ DEPARTMENT SEMINARS**

A wide variety of experts in the field visit campus throughout the year giving seminars that are open to all students. First & second year students are required to attend all PMCB sponsored seminars and encouraged to attend all seminars sponsored by member departments. Flyers announcing visiting seminar speakers can be found posted campus-wide and member department coordinators and websites also have information about schedules for visitors. These seminars provide excellent opportunities for interaction with leading researchers and educators. Small groups of students are also invited to luncheons and dinners with visiting speakers.

**PMCB JOURNAL CLUBS/DEPARTMENTAL JOURNAL CLUBS**

First year students are required to attend PMCB Journal Club meetings that are incorporated into their Fall and Winter CONJ Courses. PMCB Journal Club meets on Thursday afternoons and reviews material related to one of the CONJ Courses that week. First year students are required to register for a Departmental Journal Club during Spring Term. The Spring Journal Club can be of the student’s own choosing, but students are encouraged to choose a Journal Club in the Department they are interested in joining.

**YEARLY RETREAT**

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Each September, typically the week before the beginning of the fall term, PMCB holds a yearly retreat for PMCB students and faculty. Activities during the retreat include orientation for incoming students, student poster sessions, awards presentations, workshops, guest lecturers, and social activities. Member departments also host open houses and social events during the week preceding the beginning of Fall term. Retreat attendance is required by first year students and strongly encouraged for advanced students.

**PMCB COMPREHENSIVE EXAM (end of year 1)**

All first year PMCB students are required to take the comprehensive examination at the scheduled time following completion of their first year of graduate studies. This examination tests the student's ability to think scientifically using concepts covered during the first year of coursework. The comprehensive exam is prepared by the PMCB Comprehensive Exam Directors. The exam consists of the following:

1. **Part one** - A review of the scientific literature which gauges the student's ability to read and interpret scientific literature. Students are tested on their ability to interpret the data, explain methodologies, identify strengths and weaknesses, and integrate results into larger fields of molecular and cell biology. Students will have two weeks prior to the exam to review 4 journal articles. During the seated, written exam, students will be required to answer a set of questions from 2 out of the 4 journal articles.

2. **Part two** - A seated, written exam with questions that tests the student's ability to apply core principles learned in the CON courses; and questions designed to assess the breadth of knowledge within the disciplines represented within each CON course. Exam questions will consist of several components and be designed to test broad as well as specific aspects of student's knowledge. Effort will be made to integrate key concepts across traditional discipline boundaries. Answers will be evaluated for breadth and depth of knowledge.

**PMCB Comprehensive Exam Directors and Responsibilities:** Two faculty members will be director and co-director of the Comprehensive Exam. These are rotating positions lasting two years, with one new faculty member cycling on as co-director each year. The Exam Directors will assemble the exam, administer it, and assess and report test scores to students, to the PAC committee, and the PMCB Program Director. The Exam Directors may also make recommendations to the PMCB Steering Committee regarding passing, remediation, or dismissing a PMCB student.

The Exam Directors will request exam questions and literature for review from course directors of the Fall and Winter CONJ courses. Final review & approval of the exam is the responsibility of the PMCB Comprehensive Exam Directors. Final assembly of the exam is the responsibility of the PMCB Coordinator.

**Examination format:** The exam will typically be given approximately three weeks following the completion of spring quarter. The exam will consist of two parts. One based upon assessing literature by answering questions related to 2 out of 4 reviewed journal articles and the second will be answering essay questions covering material covered in the Fall & Winter CONJ Courses. The exam will be 6 hours in duration with a one hour lunch break. The use of electronic devices during the exam is strictly prohibited. Cell phones must be left with the exam proctor if leaving the room for any reason.

**Part One:** At least two weeks before the written exam, students will be given four research articles that are thematically related and equally distributed among CON course themes. Students may read and discuss these
papers with others. During the seated, written exam, students will be given multi-part questions for each of the four articles. Students must choose to answer 2 sets of questions.

Part Two: The seated exam will consist of a series of short answer questions from the Fall and Winter Term CON courses each student has completed. The number of questions may vary between CON courses and will be determined by the CON course directors and approved by the Exam directors. This exam will be closed book and will be divided into two two-hour sessions with a break between.

Grading: The primary grading of exam questions will be done by participating faculty members and reviewed as necessary by the Exam Committee Directors. Results of the student’s comprehensive exam will become part of the student’s permanent record and be shared with the PAC committee, the student’s thesis mentor, the PMCB Program Director, and PMCB Steering Committee. If needed, results will be shared with the PMCB Progress Board.

Outcomes: The Comprehensive Exam Directors will analyze exam scores and assign a final grade of Pass or Fail for Part One and Part Two of the exam. A passing grade is awarded to students who receive a grade of 70% or better. Students who receive a passing grade on both sections of the exam will advance to their second year of studies.

Students in good academic standing who pass the exam overall, but do not pass one or more of the sections of the exam will be discussed on an individual bases by the Exam Directors, in consultation with the PMCB Student Progress Board and the PMCB Program Director to determine if remediation is required. The purpose is to ensure that students have a mastery of all subject areas prior to advancing to candidacy for the PhD. Students requiring remediation will be responsible for preparing to be re-examined on the failed section(s). The re-examination will be completed by the end of the term of the original exam. Any student who fails the second exam may be recommended for dismissal.

Students on academic probation before taking the exam and who fail the exam may be subject to dismissal from the program.

PMCB QUALIFYING EXAMINATION (end of year 2)

Eligibility: To be eligible to take the PMCB Qualifying Examination (QE), students must have successfully completed all coursework required in the first two years of the PMCB curriculum, and they must have received a passing grade on the PMCB Comprehensive Examination. Students may not take the qualifying examination if they are on academic probation or if an incomplete grade remains on their transcript.

Format: The QE consists of a written and oral component. The candidate must pass both the written and oral portions of the examination in order to pass. The written component will resemble a NIH-style NRSA grant proposal on any topic chosen by the student, including the student’s proposed thesis research. The oral component will consist of a 20-30 minute presentation by the student on the topic of the written proposal. Members of the student’s Qualifying Exam Committee (QEC) will ask the student a series of questions on the proposal and related scientific areas.

Timeline and description – Specific dates for the exam must be arranged with your department, but the following steps are required prior to completing the QE during Summer term. Extension of deadlines for any reason will only be considered by written request to the student’s QEC (or PMCB Director if the QEC has not been formed). Students may request permission to take the QE earlier than Summer Term. The request must be made in writing to the PMCB Director at least two months prior to the proposed exam date. The request must
be pre-approved by the student’s thesis advisor and department program director before submission to the PMCB Director.

1. Students submit a two-page, single-spaced prospectus to their department, the PMCB office (pmcb@ohsu.edu) and to all members of their QEC that defines the topic for their QE proposal describes potential questions to be addressed and outlines an experimental plan on their topic. Students should also note whether or not the QE subject material is part of their current research. Department program directors will oversee selection of the student’s QEC.

2. The QEC, responsible for conducting the student’s qualifying examination, is appointed by the department and the student is notified of the names of the panel members. The student is responsible for ensuring all members have a copy of their prospectus.

3. The QEC notifies the student in writing of acceptance or of any weaknesses or specific suggestions for improvement to their proposal.

4. Student schedules a date for the oral examination in consultation with his/her QEC. Work with the Dept. Coordinator to reserve a room.

5. **at least one week prior to Oral Exam** – Student submits final written proposal to the QEC and their thesis advisor.

6. **at the Oral Exam** – Student submits a letter to the QEC from their thesis advisor, describing their role during preparation of the proposal (see “Role of Thesis Advisor and Other Faculty” below).

7. **at least ten days before the beginning of Fall term** – Oral examinations completed.

If scheduling difficulties exist and the exam cannot be completed by the time grades are due (one week after the end of the term) the student will receive an incomplete “I” grade. Incomplete grades remaining on the student’s record after one subsequent term will convert to a no pass “NP”.

**Format of Written Proposal:** The proposal shall be written following current general guidelines of a NRSA application. It is the student’s responsibility to check on the guidelines, which are available on the NIH website. It shall consist of a hypothesis-driven series of experiments bearing directly on the question or hypothesis of the proposal, with a discussion of probable outcomes, interpretations and alternative approaches. The proposal shall be no longer than 7 pages, including figures and references (single-spaced; 1 page for the specific aims section and 6 additional pages for the rest of the grant). Students may discuss topics and proposed experiments with all sources (fellow students, post-doctoral fellows, faculty, and visiting scientists), but none of them may be involved in any aspect of the student's written proposal. Students may also seek general assistance in scientific writing and proofreading. However, it must be remembered that the written proposal is an examination, and must represent the student's ideas and development of the research topic. Students are expected to adhere to established guidelines for professional ethical conduct in the preparation of their QE proposal topics.

**Role of Thesis Advisor and Other Faculty:** To facilitate an objective examination, the student’s mentor is not permitted to edit or comment on the written proposal. Neither is the mentor, nor any other faculty member, permitted to coach the student in a rehearsal of their oral presentation. The student must submit a signed letter from their thesis advisor describing in specific detail the role of the advisor and of the student in the development of the hypothesis and research plan in this proposal. The thesis advisor must confirm that they
have NOT contributed to the written portion of the exam, and that the student has NOT used any of the advisor’s prose within the proposal. The QEC has two weeks from receipt of the written proposal and thesis advisor letter to request more information from the thesis advisor if deemed necessary.

**Format of Oral Examination:** The oral examination will probe the breadth of the student’s knowledge and also the depth of the student’s understanding of his/her research proposal. Students are expected to begin the oral examination by giving a short (20-30 minute) formal presentation summarizing the written proposal. Audio-visual aids may be used during the summary of the proposal. During the oral examination by the panel, the use of prepared visual aids, textbooks, or other reference material is not permitted. Slides and figures from the oral summary may be referred to if they are the subject of a question from the exam panel. Questions from the Examination Panel should focus primarily on issues pertaining to the proposal; however, the student is responsible for all areas of cellular and molecular biology that have been covered during the first two years of graduate study. Therefore, students also should expect questions on general knowledge in addition to questions relating to the scientific background pertinent to their areas of specialization, as well as more general issues related to the proposed experiments. Students may be asked about the choice of methodologies, their relative advantages and disadvantages, and potential alternative strategies (when appropriate). Students will be expected to understand and be ready to explain the scientific basis of technical methods they intend to employ. The student should be prepared to discuss the rationale for the proposed study, the strengths and limitations of the proposed experimental strategies, and potential pitfalls and alternatives.

**Preparation for the Oral Examination:** Students should be thoroughly familiar with key historical and background publications that provide the foundation for their proposal, as well as any current literature that directly pertains to their specific aims. In addition, students are encouraged to review the more general areas of cellular and molecular biology that provide the conceptual framework for their proposal. Once a student has submitted their final written proposal to their QEC, they may contact panel members for guidance in preparing their oral exam presentation.

**Outcomes:** The outcome will be decided by majority vote of the QEC and be recorded on the PMCB Qualifying Examination form. The form shall be signed by all voting members of the examination panel and returned promptly to the PMCB office. PMCB will inform students of the outcome immediately after the results are received. Possible outcomes include:

**Pass** – The student passes both the written and oral examination. In certain circumstances, the QEC may identify specific areas of weakness that the student needs to address during subsequent thesis work. This information will be communicated in writing to the student, thesis advisor, and PMCB by the chair of the examination panel.

**Conditional Pass** – A conditional pass may be given for either the written or oral components of the examination if significant deficits are identified. In this case, the student will be provided with specific requirements that must be met within a prescribed time frame. A variety of requirements may be assigned at the discretion of the QEC to correct a perceived deficit, including (but not limited to) additional coursework; revision of some or the entire written proposal; assignment of additional directed reading; preparation of a written review of a particular topic; or presentations in journal club formats. In the case of assigned additional coursework, the student must complete the assigned course(s) with a grade of “B” or better. Within one week of the oral examination, the chair of the QEC will prepare a written statement to the student describing the conditions required to remove the conditional pass.

The chair of the student’s QEC will be responsible for notifying the student, the student’s thesis advisor, and the PMCB office when the student has successfully completed the requirements of the conditional
pass. Failure on the part of the student to complete the requirements within the prescribed time frame will be considered unsatisfactory progress, and the student may be subject to dismissal from the PMCB.

**Fail** – If the student fails either portion of the examination, the student fails the Qualifying Examination. Within one week of the examination, the chair of the Examination Panel will provide a written statement to the student, the thesis advisor and the PMCB office, describing the deficiencies that led to failing the qualifying examination. The student may petition the QEC to take the qualifying examination (written and oral) again within the subsequent three months, or alternatively may resign from the graduate program. The QEC may also elect to offer the student the option to complete a Master’s Degree, rather than re-taking the Qualifying Examination. In such a case, students will be obligated to complete all the requirements for the Master’s Degree of their home department. The QEC will counsel the student with respect to the most prudent course of action. If the student decides to re-take the Qualifying Examination, then he/she must submit a revised or new proposal to the QEC as summarized above; and will have five weeks to complete the full proposal.

**Timeline for re-examination:** The re-examination procedure must be completed within three months of the original examination, but no later than the end of Fall term of that year.

**Outcome for re-examination:** Students will be assigned a “pass,” “conditional pass,” or “fail” by the same criteria as summarized above. Failure to pass the QE after two attempts will automatically result in dismissal from the graduate program.

**Qualifying Examination Committee involved in the administration of PMCB Qualifying Examinations (QEC - 5 members):** This committee is responsible for administering a specific qualifying examination. For each student, the Department Program Director will appoint an examination panel of five faculty members and assign one panel member to serve as chair. PMCB recommends that three of the panel members have primary appointments in the department. Each of the five members of the QEC will participate in the examination process and vote on the outcome. In addition, a non-voting member representing PMCB may attend all deliberations and meetings of each QEC. The student’s advisor/mentor may NOT be appointed to the panel. The advisor/mentor may attend the qualifying examination as a non-voting, silent observer. The advisor/mentor may NOT attend sessions when the panel privately discusses the student’s performance, except at the unanimous invitation of the panel. The QEC will be responsible for evaluating the written and oral components of the examination, for determining the outcome, and for identifying any requirements that a student must complete in the case of a conditional pass. Each student will have their own QEC, though PMCB faculty may serve on multiple panels. All students should refer to individual department QE guidelines as well to ensure compliance.

**Advancement to Candidacy:** Upon successful completion of the qualifying examination, students will become eligible for recommendation for advancement to candidacy. The PMCB Director will sign the Qualifying Examination form indicating successful completion of all PMCB requirements and forward the form to the relevant department. The department chair or graduate program director will have responsibility for recommending students for advancement to Ph.D. candidacy when all of the department’s academic requirements have been fulfilled.

**GUIDELINES AND EXPECTATIONS FOR Ph.D. STUDENTS**

*(Years 2 and beyond)*

PMCB and the basic science departments follow the minimum guidelines set out in the Graduate Studies By-Laws. However, departments may have additional requirements for advancement to candidacy, required course work, attendance and grading, etc. It is the student’s responsibility to be familiar with the guidelines for
Graduate Studies and for their member department. Department expectations can be found on the individual department website or by contacting the department coordinators.