



**Plant Molecular  
and Cellular Biology**  
PROGRAM

2018–2019 Academic Year  
Student and Faculty  
Handbook

<http://pmcb.ifas.ufl.edu>

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## MISSION AND VALUES

Welcome to the Plant Molecular and Cellular Biology Program at the University of Florida. PMCB faculty members are deeply committed to helping students develop into successful biological scientists, capable of conducting independent fundamental and applied research. We value students that act conscientiously and conduct themselves as professionals, proactively developing the behavior, knowledge, skills, and leadership required for a successful career.

The goals of this handbook are to (1) assist PMCB graduate students in successfully fulfilling their requirements for their degree programs and meeting the deadlines as established by the University of Florida and the Graduate School and (2) provide official rules, policies, and regulations to be followed by both PMCB graduate students and faculty.

## PMCB GENERAL INFORMATION

PMCB is an intercollegiate and interdepartmental graduate degree program that emphasizes understanding the molecular and cellular mechanisms that mediate plant development, adaptation, and evolution.

PMCB currently has 44 faculty members (**TABLE 1**). They are based in the departments of Agronomy, Biology (Botany), Environmental Horticulture, Forest Resources and Conservation, Horticultural Sciences, Microbiology and Cell Science, Molecular Genetics and Microbiology, and Plant Pathology within the Colleges of Agriculture and Life Sciences, Liberal Arts and Sciences and Medicine.

**TABLE 1. LIST OF PMCB GRADUATE FACULTY**

<b>PMCB Graduate Faculty</b>	<b>Department</b>	<b>Phone</b>	<b>Email</b>
Ali, Gul Shad	MFREC/Plant Pathology	(407) 410-6933	<a href="mailto:gsali@ufl.edu">gsali@ufl.edu</a>
Altpeter, Fredy	Agronomy	(352) 392-1823	<a href="mailto:altpeter@ufl.edu">altpeter@ufl.edu</a>
Barbazuk, Brad	Biology	(352) 273-8624	<a href="mailto:bbarbazuk@ufl.edu">bbarbazuk@ufl.edu</a>
Basset, Gilles	Horticultural Sciences	(352) 273-4808	<a href="mailto:gbasset@ufl.edu">gbasset@ufl.edu</a>
Bassil, Elias	Tropical REC, Horticultural Sciences	(786) 217-9289	<a href="mailto:ebassil@ufl.edu">ebassil@ufl.edu</a>
Burleigh, Gordon	Biology	(352) 392-2776	<a href="mailto:gburleigh@ufl.edu">gburleigh@ufl.edu</a>
Chambers, Alan	Tropical REC, Horticultural Sciences	(786) 217-9252	<a href="mailto:ac@ufl.edu">ac@ufl.edu</a>
Chase, Christine	Horticultural Sciences	(352) 273-4862	<a href="mailto:cdchase@ufl.edu">cdchase@ufl.edu</a>
Chen, Sixue	Biology	(352) 273-8330	<a href="mailto:schen@ufl.edu">schen@ufl.edu</a>
Clark, David	Environmental Horticulture	(352) 273-4577	<a href="mailto:geranium@ufl.edu">geranium@ufl.edu</a>
Colquhoun, Thomas	Environmental Horticulture	(352) 273-4584	<a href="mailto:ucntcme1@ufl.edu">ucntcme1@ufl.edu</a>
Davis, John	Forest Res. & Conservation	(352) 846-0879	<a href="mailto:jmdavis@ufl.edu">jmdavis@ufl.edu</a>
Ferl, Robert	Horticultural Sciences	(352) 273-4822	<a href="mailto:robferl@ufl.edu">robferl@ufl.edu</a>
Folimonova, Svetlana	Plant Pathology	(352) 273-6455	<a href="mailto:svetlana@ufl.edu">svetlana@ufl.edu</a>
Folta, Kevin	Horticultural Sciences	(352) 273-4812	<a href="mailto:kfolta@ufl.edu">kfolta@ufl.edu</a>
Gabriel, Dean	Plant Pathology	(352) 392-7239	<a href="mailto:gabriel@ufl.edu">gabriel@ufl.edu</a>
Gmitter, Fred	Citrus REC, Horticultural Sciences	(863) 956-1151	<a href="mailto:fgmitter@ufl.edu">fgmitter@ufl.edu</a>
Gurley, William	Microbiology and Cell Science	(352) 392-1568	<a href="mailto:wgurley@ufl.edu">wgurley@ufl.edu</a>
Hannah, Curtis	Horticultural Sciences	(352) 392-9905	<a href="mailto:lchannah@ufl.edu">lchannah@ufl.edu</a>
Hanson, Andrew	Horticultural Sciences	(352) 273-4856	<a href="mailto:adha@ufl.edu">adha@ufl.edu</a>
Harmon, Alice	Biology	(352) 273-8096	<a href="mailto:harmon@ufl.edu">harmon@ufl.edu</a>
Hauser, Bernard	Biology	(352) 392-0009	<a href="mailto:bdhauser@ufl.edu">bdhauser@ufl.edu</a>
Jones, Jeffrey	Plant Pathology	(352) 392-7244	<a href="mailto:jbjones@ufl.edu">jbjones@ufl.edu</a>
Kim, Jeong Im	Horticultural Sciences	(352) 273-4779	<a href="mailto:jkim6@ufl.edu">jkim6@ufl.edu</a>
Kirst, Matias	Forest Resources & Conservation	(352) 846-0900	<a href="mailto:mkirst@ufl.edu">mkirst@ufl.edu</a>
Klee, Harry	Horticultural Sciences	(352) 392-8249	<a href="mailto:hjkleee@ufl.edu">hjkleee@ufl.edu</a>
Koch, Karen	Horticultural Sciences	(352) 273-4833	<a href="mailto:kekoch@ufl.edu">kekoch@ufl.edu</a>
Lee, Seonghee	Gulf Coast REC, Horticultural Sciences	(813) 419-6611	<a href="mailto:seonghee105@ufl.edu">seonghee105@ufl.edu</a>
McCarty, Donald	Horticultural Sciences	(352) 273-4846	<a href="mailto:drm@ufl.edu">drm@ufl.edu</a>
McDaniel, Stuart	Biology	(352) 273-0123	<a href="mailto:stuartmcdaniel@ufl.edu">stuartmcdaniel@ufl.edu</a>
McIntyre, Lauren	Molec. Genetics & Microbiology	(352) 273-8024	<a href="mailto:mcintyre@ufl.edu">mcintyre@ufl.edu</a>
Mou, Zhonglin	Microbiology and Cell Science	(352) 392-0285	<a href="mailto:zhlmou@ufl.edu">zhlmou@ufl.edu</a>
Munoz, Patricio	Agronomy	(352) 392-6180	<a href="mailto:p.munoz@ufl.edu">p.munoz@ufl.edu</a>
Oppenheimer, David	Biology	(352) 273-0121	<a href="mailto:oppenhe@ufl.edu">oppenhe@ufl.edu</a>
Paul, Anna-Lisa	Horticultural Sciences	(352) 273-4855	<a href="mailto:alp@ufl.edu">alp@ufl.edu</a>
Peter, Gary	Forest Res. & Conservation	(352) 846-0896	<a href="mailto:gfpeter@ufl.edu">gfpeter@ufl.edu</a>
Rathinasabapathi, Bala 'Saba'	Horticultural Sciences	(352) 273-4847	<a href="mailto:brath@ufl.edu">brath@ufl.edu</a>
Resende, Marcio F. R.	Horticultural Sciences	352) 273-4772	<a href="mailto:mresende@ufl.edu">mresende@ufl.edu</a>
Rollins, Jeffrey	Plant Pathology	(352) 392-9241	<a href="mailto:rollinsj@ufl.edu">rollinsj@ufl.edu</a>
Settles, Mark	Horticultural Sciences	(352) 392-7571	<a href="mailto:settles@ufl.edu">settles@ufl.edu</a>
Soltis, Doug	Biology	(352) 273-1963	<a href="mailto:dsoltis@ufl.edu">dsoltis@ufl.edu</a>
Soltis, Pamela	Biology	(352) 273-1964	<a href="mailto:psoltis@ufl.edu">psoltis@ufl.edu</a>
Song, WenYuan	Plant Pathology	(352) 392-7231	<a href="mailto:wsong@ifas.ufl.edu">wsong@ifas.ufl.edu</a>
Vallejos, Eduardo	Horticultural Sciences	(352) 273-4845	<a href="mailto:vallejos@ufl.edu">vallejos@ufl.edu</a>
Vermerris, Wilfred	Microbiology and Cell Science	(352) 273-8162	<a href="mailto:wev@ufl.edu">wev@ufl.edu</a>
Wang, Jianping	Agronomy	(352) 273-8104	<a href="mailto:wangj@ufl.edu">wangj@ufl.edu</a>

## ACADEMIC HONESTY

In 1995 the University of Florida student body enacted an Honor Code and voluntarily committed itself to the highest standards of honesty and integrity. When students enroll at the University of Florida, they commit themselves to the standard drafted and enacted by students.

**Preamble:** In adopting this Honor Code, UF students recognize that academic honesty and integrity are fundamental values of the University community. Students who enroll at the University commit to holding themselves and their peers to the high standard of honor required by the honor code. Any individual who becomes aware of a violation of the honor code is bound by honor to take corrective action. The quality of a University of Florida education depends on community acceptance and enforcement of the honor code.

**The Honor Pledge:** *We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity.*

On all work submitted for credit by students at the University, the following pledge is either required or implied: "On my honor, I have neither given nor received unauthorized aid in doing this assignment."

The University requires all members of its community to be honest in all endeavors. A fundamental principle is that the whole process of learning and pursuit of knowledge is diminished by cheating, plagiarism and other acts of academic dishonesty. In addition, every dishonest act in the academic environment affects other students adversely, from the skewing of the grading curve to giving unfair advantage for honors or for professional or graduate school admission. Therefore, the University will take severe action against dishonest students. Similarly, measures will be taken against faculty, staff and administrators who practice dishonest or demeaning behavior.

**Student responsibility:** Students should report any condition that facilitates dishonesty to the instructor, department chair, college dean or Student Honor Court.

**Faculty responsibility:** Faculty members have a duty to promote honest behavior and to avoid practices and environments that foster cheating in their classes. Teachers should encourage students to bring negative conditions or incidents of dishonesty to their attention. In their own work, teachers should practice the same high standards they expect from their students.

**Administration responsibility:** As highly visible members of our academic community, administrators should be ever vigilant to promote academic honesty and conduct their lives in an ethically exemplary manner.

## STUDENT HONOR CODE and STUDENT CONDUCT CODE

Students enjoy the rights and privileges that accrue to membership in a University community and are subject to the responsibilities that accompany that membership. For a system of effective campus

governance, it is incumbent upon all members of the campus community to notify appropriate officials of any violations of regulations and to assist in their enforcement.

This is the student's first phase of career development and the faculty believes that students need to behave as professionals, conscientiously following commonly accepted norms and meeting deadlines. The University of Florida Student Honor Code and Student Conduct Code are available [here](#). Questions can be directed to the [Dean of Students Office](#).

**A NOTE ON PLAGIARISM:** Plagiarism is considered a violation of the Student Honor Code. Students must exercise great care with regard to plagiarism. *Plagiarism is defined as the act of using the language and/or thoughts of another author, without crediting them, and representing the work as your own.* In other words, your writing must be original and cannot directly copy sections of text published elsewhere. There are different cultural tolerances for "borrowing" text from published sources. It is important to understand that in written assignments no published text may be directly installed into your own work. If necessary, small phrases may be copied directly, but they must be offset by quotation marks or italic font, and the source must be directly cited.

## PMCB GRADUATE DEGREE REQUIREMENTS

### PROGRAM OVERVIEW

Students can pursue an M. S. or a Ph.D. degree through the PMCB program. All students complete core courses in Advanced Genetics, Plant Molecular Biology and Genomics, Plant Cellular and Developmental Biology, and Plant Biochemistry. In addition to the core classes, students can select from a variety of courses in biochemistry, molecular biology, physiology, breeding, genetics, evolution, microbiology, and plant pathology. A course of study is designed by each student's graduate committee to reflect individual professional goals and research interests.

**MASTER OF SCIENCE DEGREE:** The PMCB Master of Science degree requires a thesis and minimum of 30 credits beyond the Bachelor of Science degree, 24 of which must be regular coursework. Four PMCB core courses are required: PCB 5065 Advanced Genetics, PCB 5530 Plant Molecular Biology and Genomics, PCB 6528 Plant Cellular and Developmental Biology and BOT 6935 Plant Biochemistry. This makes the core course requirements the same as for Ph.D. students. A minimum of 4 credits is required from the Journal Colloquium topics for a student to be able to graduate with a Master's degree. However, Master students are required to register for one journal colloquium topic **every** spring and fall semesters until graduation from the program. No more than 6 credits of PCB 6971 Masters Research will count towards the M.S. degree. For more details on classes, please refer to page 9, Graduate Courses Offered by the PMCB Program section.

**PH.D. DEGREE:** The PMCB Ph.D. degree requires a minimum of 90 credit hours beyond the Bachelor of Science degree. Four PMCB core courses are required: PCB 5065 Advanced Genetics, PCB 5530 Plant Molecular Biology and Genomics, PCB 6528 Plant Cellular and Developmental Biology and BOT 6935 Plant Biochemistry for a total of 14 credits. Ph.D. track students must achieve a grade of B or greater in each

core course or repeat the course (and obtain at least a B grade). An additional 6 credit hours (minimum) of course work is required and the courses taken will be selected in consultation with the advisor and thesis committee. Journal Colloquium enrollment is required in spring and fall semesters. A minimum of 6 credits is required from the Journal Colloquium topics for a student to graduate with a Ph.D. degree. However, Ph.D. students are required to enroll in one journal colloquium topic **every** spring and fall semesters until graduation from the program. No more than 6 credits of PCB 6971 Masters Research can be transferred from the M.S. degree. For more details on classes, please refer to page 9, Graduate Courses Offered by the PMCB Program section.

Each year, the program awards a limited number of rotation assistantships to students seeking a Ph.D. degree. For these students, the PMCB Program Director and Graduate Coordinator will serve as the first year supervisory committee and function primarily to ensure that students are guided in basic course work and given the opportunity to explore different areas of research. Non-rotating students (also called 'direct admits') must identify a major professor willing to supervise and support their program of study before gaining admission to the program.

For completion of the Ph.D. degree, all doctoral students must have **at least one first author publication accepted for publication in a peer-reviewed journal in their research field before defending their dissertations**. First and foremost, this publication must be a full science paper, not a methods or review paper. Second, it should not be simply submitted, it must be accepted and/or in press. Students should send the Academic Coordinator either the link to the publication or the letter of acceptance from the scientific journal. Students who do not meet this requirement will have a hold and not be awarded their final degree.

## **ROTATIONS**

All pre-doctoral students supported by the PMCB Program in their first two semesters will do rotations through at least three labs. This exposes students to different laboratory philosophies, technologies, and projects. Students are responsible for arranging their own rotations and are expected to keep the Academic Services Coordinator informed about which faculty labs they are rotating in. Each rotation will occupy approximately ten weeks.

At the end of the spring of their first year, pre-doctoral students on rotation will no longer be financially supported by PMCB. This means it is the student's responsibility to find a lab and advisor with sufficient funds to cover tuition, stipend and health insurance unless these are already covered by an international, national, college or PMCB program level assistantship. **By the end of spring of their first year, all students should have selected a major professor.**

## **RESEARCH PROGRESS TALKS (or 'Rotation' Talks)**

Graduate students in PMCB are expected to be able to read, interpret, review literature and critically assess primary literature in the field of plant biology as well as to communicate effectively using scientific writing and oral presentations skills. Therefore, all first-year students, regardless of whether rotating or

directly admitted to a lab, will present a 10 -15 minute seminar to communicate their research results and what they have learned. The PMCB rotations and the PMCB Research Progress talks will follow a preset schedule, as shown in **TABLE 2** below:

**TABLE 2. ROTATION SCHEDULE FOR FALL 2018 – SPRING 2019**

Ongoing until Aug. 21, 2018	Find lab rotations
Aug. 22 to Nov. 2, 2018	First rotation
Nov. 2 at noon	Seminar day
Nov. 3, 2018 to Feb. 8, 2019	Second rotation
Feb. 8, 2019 at noon	Seminar day
Feb. 9 to April 26, 2019	Third rotation
April 26, 2019 at noon	Seminar day

## **FACULTY ADVISOR AND SUPERVISORY COMMITTEE**

### ***MASTER OF SCIENCE DEGREE:***

The student's supervisory committee should be appointed as soon as possible after the student is admitted to the Graduate School and the deadline is the end of the term during which the student has accumulated 12 or more credits or the end of the second term. The supervisory committee for a master's degree must consist of at least two members selected from the PMCB Graduate Faculty, including the committee chair. Only Graduate Faculty may serve on a supervisory committee. If a minor is designated, a representative from that minor is needed on the supervisory committee. If two minors are designated, two representatives are needed.

### ***PH.D. DEGREE:***

**FACULTY ADVISOR:** It is the responsibility of the student to find a major advisor by the end of their three rotations. The major advisor must have graduate faculty status within the PMCB Program. The major advisor is the main contact for information regarding graduate education and will serve as the chair of the student's supervisory committee.

**SUPERVISORY COMMITTEE:** The supervisory committee is designed to serve as a guide to the student's research and program of study. **The deadline to have a supervisory committee assembled is by the mid-point of the fourth semester.** PMCB highly recommends that students have a supervisory committee selected by the end of the third semester. Please note that if a committee is not established by mid fall, a hold will be placed on the student's records. The major advisor will assist in determining who the other members of the committee will be.

Students must have a minimum of four members in their committees, including the advisor, who serves

as the chair, 2 additional members and one external member.

All Graduate School requirements regarding committee composition and appointment will apply, with one exception: for the Ph.D. program, at least two members, in addition to the chairperson, shall be from within the PMCB graduate faculty, and at least one must be from outside (external) the PMCB graduate faculty. This person would be known as the 'external member.' All members of the committee must have graduate faculty status at UF unless special appointment approval is granted.

In summary, the minimum Ph.D. supervisory committee should have:

1. **Chair** (must have graduate faculty status in PMCB)
2. **Member** (must have graduate faculty status in PMCB)
3. **Member** (must have graduate faculty status in PMCB)
4. **External member** (must have graduate faculty status in any department except PMCB)

**EXTERNAL MEMBER:** The external member must be a member of graduate faculty and have graduate faculty status with the UF Graduate School. Faculty holding joint, affiliate, courtesy, or adjunct graduate faculty appointments in the PMCB cannot be external members on student committees. **If the external member joins the PMCB faculty the student will need to select a new external member for the committee.** Special appointments to supervisory committees may not serve as external committee members.

**SPECIAL MEMBER:** Special member appointments are usually individuals from outside of UF with specific expertise which will contribute to a graduate student's program of study; tenure-track faculty who have not yet qualified for graduate faculty status; and non-tenure-track faculty or staff at UF who do not qualify for graduate faculty status. **Special members may not serve as a supervisory committee chair, co-chair, external member, or minor representative.** Special members count over and above the minimum required four members, not toward it (they are "guest experts").

To have a special member added to a supervisory committee, please obtain the Special Appointment Form with the Academic Coordinator. Changes in the supervisory committee can be made up until the semester in which the student is graduating. To make changes to a committee, students must contact the Graduate or Academic Coordinator.

Refer to the [UF Graduate School – Graduate Catalog](#) website for more information on Ph.D. requirements. The UF Graduate Catalog is the University of Florida's official record of graduate policies, critical dates, deadlines, course descriptions and faculty members.

### **WRITTEN EXAMINATIONS FOR Ph.D. STUDENTS**

The intent of the written exams is to facilitate student learning and rigorously assess whether students have the ability to succeed at the Ph.D. level in the PMCB Program. The written exams typically begin the Monday after the PMCB Workshop, which is usually held the first Friday and Saturday of May.



1. The written exam committee composes the exam assuring a uniform year to year assessment of core knowledge areas, skills and abilities required for Ph.D. level work.
  - 1.1. Core knowledge areas are: biochemistry, bioinformatics/genomics, cell biology, development, genetics, molecular biology, and general plant biology.
2. The written exam is administered to students at the end of the spring semester of their first year (typically on the first Monday after the PMCB workshop in May) and students have approximately three weeks to complete the exams.
  - 2.1. It is expected that the students will focus primarily on the exams during this month, and will not be required to perform extensive lab work or other activities unrelated to the exam.
3. The written exam will consist of two take-home exams and one comprehensive in-class exam.
  - 3.1. The take home exams are intended to assess students' ability to explain the concepts, experimental approaches and data styles that are standard to cellular and molecular biology and to use adequate reasoning and logic necessary for in-depth analysis and synthesis of information at the cellular and molecular levels.
4. The in-class exam is intended to assess the students' knowledge of the fundamental content in the four core courses they are required to take in their first year.
5. Students have 1 week to complete each written exam. These will be disseminated on consecutive weeks and are due after 7 days.
6. The written exam committee grades and assigns Ph.D. or M.S. level grades to each student.
  - 6.1. A guideline for a Ph.D. level pass is  $\geq 70\%$  on at least two of the three exams and  $\geq 50\%$  on the third exam.
    - 6.1.1. Students receiving a Ph.D. level grade will take the oral candidacy exams administered by their committee before the end of spring semester of their second year.
  - 6.2. A guideline for a M.S. level pass is  $\geq 70\%$  on one exam and  $\geq 50\%$  on the other two exams.
    - 6.2.1. Students receiving a M.S. level grade on the written exam will have the option of requesting an oral exam in an effort to qualify for a Ph.D. level grade and the chance to continue working towards qualifying for doctoral candidacy status. This oral exam will be administered by the written exam committee the week following the in-class comprehensive exam. This oral exam is meant to rigorously evaluate the student's knowledge and abilities.
      - 6.2.1.1. Students who pass the oral exam at the Ph.D. level will take the oral candidacy exam administered by their committee **before** the end of spring semester of their second year.
      - 6.2.1.2. Students who pass this oral exam at the M.S. level can choose to complete a Master's degree with thesis, if they find a willing advisor.

7. If a student does not pass at the M.S. level, then the committee will evaluate whether this student should continue in the PMCB program.
8. The exams are not returned to the students, but copies are stored in the PMCB administrative office – the students can, however, look at their exams, but not take them out of the office.

### ORAL EXAMINATIONS AND ADVANCEMENT TO CANDIDACY

The oral candidacy exam is required to be completed by Ph.D. students ***before the end of the spring semester of their second year***. Students are recommended to complete this deadline well in advance. Any exams scheduled after the end of the spring semester is considered late. If this does not occur, a hold will be placed on their registration until the oral exam is completed.

In preparation for the exam, the student must write and disseminate to committee members a detailed, NSF- or USDA-style format proposal describing a researchable topic. In addition to the exam, students should present a public proposal seminar presenting current progress and research plans written in their proposal. Students are strongly encouraged to complete their oral exams before the end of spring semester, because it is often more difficult to get all committee members together in the summer semester.

It is essential that students arrange the time of their presentation a minimum of two weeks in advance with the PMCB Academic Coordinator so the seminar can be announced. Students are also required to obtain the “Admission to Candidacy” form with the Academic Coordinator. The form needs to be signed by ***all*** the committee members ***at the end of your oral exams*** and turned in to the Academic Coordinator for submission to the Graduate School. Failure to do so will prevent students from registering for PCB 7980 Doctoral Research (research credits to be taken ***after*** you pass your qualifying exam).

### DEVELOPING COMMUNICATION SKILLS

The development of strong communication skills is essential for a successful career. Thus, PMCB emphasizes the development of these skills by requiring students to participate in the following activities:

1. **Journal Colloquia:** Weekly discussion courses, which typically focus on analyzing the primary literature, will be organized each semester.
2. **Research Progress Seminars:** All first year students are required to present a seminar to PMCB at the end of each rotation (see section on Rotations for specific dates), regardless of whether they are rotating through three labs or have been admitted directly into a lab.
3. **Research Presentations:** As a precursor to their oral candidacy exams, Ph.D. students must present a research proposal in a seminar format with their preliminary findings and proposed future experiments. This gives students experience in publicly communicating research findings and a chance to receive input from PMCB faculty and students regarding the research direction and experimental approach.
4. **PMCB Workshop:** A workshop is held annually in May in which PMCB students and post-docs

are encouraged to present their research results in 15-minute oral presentations.

5. **Exit Seminar:** All PMCB Students (Ph.D. and M.S.) will present a public exit seminar prior to graduation.

### GRADUATE COURSES OFFERED BY THE PMCB PROGRAM

Core course work will be composed of four one-semester courses in the areas of genetics, molecular biology, genomics, cell and developmental biology and plant biochemistry (**TABLE 3**). These are typically taken during the fall and spring of the first year.

In subsequent years a formal training track will be developed by the student and the dissertation committee and will normally involve a minimum of 6 credits of additional (elective) courses.

**TABLE 3. LIST OF PMCB CORE AND RESEARCH COURSES**

Course	Title	Credits	Offered	Designation
PCB 5065	Advanced Genetics	4	Fall	Core course
PCB 5530	Plant Molecular & Cellular Biology	3	Fall	Core course
PCB 6528	Plant Molecular Biology	3	Spring	Core course
BOT 6935	Plant Biochemistry	4	Spring	Core course
PCB 6937	Special Topics in Plant Molecular and Cellular Biology	1-4	Any semester	Maximum of 8 credits
PCB 6971	Research for Master's Thesis	1-6	Any semester	Maximum of 6 credits
PCB 7922	Journal Colloquium in Plant Molecular and Cellular Biology	1	Fall & Spring	Minimum of 4 credits for M.S. and Minimum of 6 credits for Ph.D.
PCB 7979	Advanced Research	variable	Taken <b>before</b> qualifying exams	
PCB 7980	Research for Doctoral Dissertation	variable	Taken <b>after</b> qualifying exams	

### COURSE REGISTRATION

Students are required to register for the four core courses (PCB 5065 and PCB 5530 during their first fall and PCB 6528 and BOT 6935 during their first spring semester). Elective courses (minimum of 6 credits) are selected by the student, advisor and committee in the student's research field and can be taken in subsequent semesters. There are numerous graduate courses offered by different academic units at UF, please check [Course Listings Search](#).

Any student who is on an assistantship or fellowship and receives a stipend must register as a full-time

student. The required number of credits a student must register each semester depends on the type of appointment (**TABLE 4**).

**TABLE 4. REQUIRED NUMBER OF CREDITS BY SEMESTER AND TYPE OF APPOINTMENT**

Type of Appointment	Required Credits		
	Fall	Spring	Summer C
Assistantship	9	9	6
Fellowship*	12	12	8

\* Most appointments funded by PMCB are treated as graduate assistantships. Examples of fellowships are the McKnight Fellowship and NSF Fellowship.

Students register for classes using the online UF Student Self Service, also known as [ONE.UF](#). The system gives access to class schedules, transcripts, grades, fees, financial aid status, student holds among other important information. **Students are responsible for registering for their own classes and making sure they are registered for the correct number of credits every semester.** Students should also comply with [UF's dates and deadlines](#) for registration and payment of fees to avoid late fee penalties. The [PMCB website](#) posts links to current dates and deadlines.

As mentioned above, students should self-register for all PMCB classes **except those with "DEPT" as the section number**. These are departmentally controlled classes and students must register through the PMCB Academic Coordinator (email, phone or in-person). Examples are PCB 6971 Masters Research, PCB 7979 Advanced Research and PCB 7980 Doctoral Research. To register for a course that is departmentally controlled by another department, the student must contact that department for registration assistance.

#### **GATORLINK EMAIL ACCOUNT**

Every University of Florida student is required to have a GatorLink email account and to keep up with it regularly. The GatorLink username and password serve as the log in for registering for classes with [ONE.UF](#). All official communications from the University of Florida, deadline reminders, cancelling of classes, or policy announcements, are sent straight to the GatorLink account. Click [here](#) to set up a GatorLink account.

#### **IMMUNIZATIONS**

UF requires an updated immunization record before new students can register for classes. Detailed information by the Student Health Care Center is provided [here](#).

#### **CONTACT INFORMATION**

All registering students are required to enter their emergency contact information to register for classes. Students can update their information by either logging onto [ONE.UF](#) (click Student Self Service) or using this [link](#).

## REGISTRATION PREPARATION

Every UF student is required to answer a series of questions related to their financial and academic responsibility every 4 months or so. Again, log onto [ONE.UF](http://ONE.UF) and look for Registration Preparation.

## GATOR 1 CARD

The [Gator 1 Card](#) is the official University of Florida picture ID card. Many activities on campus are only available upon presentation of the Gator 1 Card, such as using the libraries, riding free on RTS buses, using all UF recreational facilities, among others.

## ASSISTANTSHIPS AND FELLOWSHIPS

### APPOINTMENTS

PMCB students are appointed as a graduate research assistants or fellows as part of their offer to join the PMCB Program. Upon acceptance, each student receives a *Letter of Appointment* and a *Letter of Offer*. **These letters are considered a formal contract between PMCB and the student** and stipulate the terms of these contracts, including title, FTE (full-time equivalent), annual and bi-weekly rate of pay, evaluation date, and duties and responsibilities.

Students who have a graduate assistantship are required to register for 9 credits each Spring and Fall semesters and 6 credits in Summer C. Students who have a fellowship are required to register for 12 credits each Spring and Fall semesters and 8 credits in Summer C. A complete list of registration requirements for Graduate Assistants (GAs) and Fellows can be found [here](#).

The letter of appointment will be renewed automatically each year, **pending (1)** satisfactory progress in the research program, as determined by the major advisor, **(2)** required registration (as mentioned above), **(3)** maintenance of an overall graduate GPA of 3.0 or higher, and **(4)** reasonable progress toward the student's degree, as determined by the graduate supervisory committee.

### STIPEND

Assistantships and fellowships include an annual salary (stipend) and a tuition waiver. Student's stipend is stated in the Letter of Appointment and will be paid bi-weekly through UF Direct Deposit system. In order to receive their stipend, students must be formally hired upon arrival in Gainesville. Students should contact the Academic Coordinator to complete the appropriate paperwork with the Fifield Shared Services Center - HR. This process may take 6 to 8 weeks for U.S. citizens and up to 12 weeks for international students. Students are required to open an account at a U.S. bank and provide PMCB with a void check upon hiring.

International students need to obtain a social security number (SSN) card in order to be hired by the PMCB Program and be on the University of Florida payroll system. Please see section International Students in the next pages for more information.

### TUITION

Students on research assistantships or fellowships have their tuition waived. That means that tuition is

paid by either PMCB funds or an external grant funds from the advisor. In order to maintain an assistantship or fellowship, students must make satisfactory progress in their research program, be properly registered, maintain an overall graduate GPA of 3.0 or higher, and make reasonable progress toward their degree. Once again, assistantships and fellowships are contracts and are renewed every year, upon meeting the requirements specified above. Tuition waivers and appointments are processed every semester by the Academic Coordinator.

**NOTE:** if a student withdraws from the program or the appointment is terminated prior to the end of a semester, the tuition waiver will be revoked and the student will be financially responsible for the total tuition amount incurred for that semester.

### **FEE PAYMENT**

Student fees (health, athletic, activity and service fees) **are not** included in the tuition waiver and must be paid each semester. These fees are calculated on a per credit basis. Students should refer to their Letter of Offer to check if they are responsible for paying student fees. Students who are required to pay their portion of student fees must do so each semester regardless of the status of the tuition waiver. Check the [University Bursar](#) website to calculate the fee amount due.

### **GRADUATE STUDENT EVALUATIONS**

Written graduate student evaluations are administered once a year to review each student's progress in their research project and towards meeting their degree requirements. These evaluations are mandated by the UF Graduate School in order for continued employment as a graduate research assistant. They must be signed by the student and his/her advisor. First year rotating Ph.D. students will have their evaluations completed by the director and/or graduate coordinator. PMCB evaluations are usually due in July.

These evaluations will assess the student's academic performance and job performance as a graduate assistant or fellow. The employment evaluation includes assessment of assigned duties and responsibilities appropriate to the assignment, including, but not limited to, employee's productivity, quality and quantity of work and research and other creative programs and contributions.

### **INDIVIDUAL DEVELOPMENT PLAN (IDP)**

All Ph.D. students, starting in Fall 2017 semester, must develop an Individual Development Plan (IDP) with input from their major professor. The [Graduate School policy](#) explains the rationale for this requirement. Briefly, the goal of an IDP is for students to: 1.) reflect on their values, interests and professional goals, 2.) self-assess their competency in important professional skills, 3.) develop a plan to enhance those skills with input from their supervisor and other mentors, 4.) work through the plan utilizing resources provided by advisors, the department, college, university or other sources, and 5.) review and revise the plan annually. Instructions will be provided during the new student orientation each fall semester. The plan template and resources to help students develop professional skills are located on the [College of](#)

[Agricultural and Life Sciences website](#) and on a [Graduate School website](#). Evidence of a plan and an annual re-evaluation of the plan are due in the Graduate Coordinator's office by the end of the second semester and then each year by the end of the spring semester for the duration of your graduate program.

## HEALTH INSURANCE

[GatorGradCare](#) is an injury and sickness insurance plan created specifically for UF students on appointments as Graduate Assistants and Pre-Doctoral Fellows. GatorGradCare coverage is based on the eligibility status of a graduate student. To be eligible, students must be enrolled in a graduate degree program, have an appointment through the University of Florida, be appropriately registered in classes and be appointed 0.25 FTE (full-time equivalent) or greater for a particular semester. There is no FTE requirement for Pre-doc Fellows. International students are mandated by law to have health coverage during the entire year, including annual breaks.

If a student loses his/her eligibility, s/he can no longer participate in the GatorGradCare program. If a student withdraws or the appointment is terminated during a semester, the student will lose GatorGradCare coverage for that semester.

Effective August 2018, there is a nominal monthly premium of \$10.00 for your individual coverage. This premium will be collected through payroll deduction. GatorGradCare enrollees who include coverage for their dependent(s) on their online enrollment are responsible for the dependent premium. For detailed information on eligibility, enrollment, benefits and more visit the [GatorGradCare](#) website or contact Ms. Kay Barrera or Sandra Sherman at 352-392-0003, [gabenefits@admin.ufl.edu](mailto:gabenefits@admin.ufl.edu).

**NOTE 1:** Enrollment in GatorGradCare is not automatic. Students must go online (click [here](#)) by the deadline to be covered by GatorGradCare. Enrollment is usually done annually

**NOTE 2:** International students are mandated by law to have health coverage during the entire year, including annual breaks. Check [UF International Students Services - Insurance](#) for more information.

## INTERNATIONAL STUDENTS

The [UF International Center](#) (UFIC) is responsible to assist all international students with required immigration documents to study in the United States and to ensure the integration of international students and families into the life of the University of Florida and the American culture. **International Students are required to check in with the UFIC as soon as they arrive in Gainesville.** [Click here](#) for a map to the HUB - UFIC. International students are expected to comply with policies, rules and regulations set forth by the UFIC.

If receiving an Assistantship/Fellowship from PMCB, the student will need a Social Security Number (SSN) (this is not the number issued by the school). UF needs to hire international students as employees and will not do so without the SSN card. To obtain the SSN, take the Continued Attendance I-20, the letter of appointment (must be on University of Florida department letterhead), ISS letter of student status

verification, passport, visa and I-94 to the Social Security Office. Maps are located in 170 Hub. The address is: Social Security Administration, 2002 NW 13th Street, Gainesville, FL 32609, phone (352) 375-4178, general information: 1-800-772-1213, <http://www.ssa.gov>.

### **OBTAINING FLORIDA STATE RESIDENCY** (*U.S. Citizens and Permanent Residents Only*)

Graduate students who are United States citizens or permanent residents are required by University of Florida policy to become in-state residents for tuition purposes after being enrolled for 12 months. For more information click [here](#).

### **STUDENT COUNSELING & SUPPORT SERVICES**

The University of Florida knows that the well-being of its students plays a major role in their academic, professional and personal success. With this in mind, UF provides its graduate students with a number of services that aid in maintaining a safe, healthy lifestyle and enriching personal life. A few of them are:

- [Counseling & Wellness Center](#)
- [U Matter We Care](#)
- [GatorWell](#)
- [Student Health Care Center](#)
- [Dean of Students Office](#)

### **UF GRADUATE SCHOOL and PMCB**

All graduate degrees at the University of Florida are conferred by the Graduate School. PMCB serves as a liaison between the student and the Graduate School. Students are required to follow the [Graduate Catalog](#) and comply with requirements, deadlines and procedures established by the Graduate School and PMCB. The Graduate School sends reminders of all critical dates to graduate student UF business e-mail accounts via the [Graduate Student Listserv](#). All graduate students are responsible for complying with the deadlines identified in these messages as well as those published in the [Academic Calendar](#). PMCB also provides a 2018-2019 deadline checklist at the end of this handbook and on its website. Students must make every effort to follow it closely, especially before starting PMCB, during their first and second years and during their final semester.

### **PMCB PROGRAM ACADEMIC DEADLINE CHECKLIST**

PMCB students are required to follow the Graduate School and University of Florida's official critical dates, such as registration, graduation, fee and other deadlines. It is the student's and faculty's responsibility to follow and comply with these deadlines and requirements, available [here](#).

To aid students in meeting all these deadlines, the PMCB Program established a checklist, which can be found in the next two pages.



## 2018-2019 COHORT PMCB CHECKLIST

BEFORE STARTING PMCB	DETAILS	CHECK
1. a. If international student b. If domestic student	a. Check in with UF International Center b. Skip to step 2	
2. Complete assistantship hiring paperwork	Fifield HR Shared Service Center, see Eliana Kampf, Academic Coord., 392-8285	
3. Set up Gatorlink account	<a href="http://helpdesk.ufl.edu/self-help/new-gator-resources/gatorlink">http://helpdesk.ufl.edu/self-help/new-gator-resources/gatorlink</a>	
4. Send Gatorlink email to add to PMCB email list	Academic Coord., Eliana ( <a href="mailto:elianak@ufl.edu">elianak@ufl.edu</a> )	
5. Enroll in GatorGradCare health insurance	<a href="http://hr.ufl.edu/benefits/health-insurance/gatorgradcare">http://hr.ufl.edu/benefits/health-insurance/gatorgradcare</a>	
6. Get UF Student ID card (Gator 1 Card)	<a href="http://www.bsd.ufl.edu/G1C/index.asp">http://www.bsd.ufl.edu/G1C/index.asp</a>	
7. Attend UF Graduate School Orientation <i>J. Wayne Reitz Union</i>	TBD in August <i>ALL new UF graduate students</i>	
8. Attend PMCB Graduate Orientation	TBD in August	
9. Lunch with all PMCB graduate students	TBD in August	
10. Clear holds on <a href="http://one.ufl.edu">ONE.UF</a> and register for classes	<b>ongoing - Aug. 16, 2018:</b> Advance Registration <i>(no registration on Aug. 15)</i> <b>Aug. 21, 2018:</b> Regular Registration	

FIRST YEAR	DETAILS	CHECK	
<b>FALL 2018</b>	Register for PCB 5065, PCB 5530, Journal Colloquium (1 credit) and request Eliana to add 1 credit of research (PCB 7979) to your schedule	by August 21, 2018 ( <a href="http://one.ufl.edu">ONE.UF</a> )	
	Classes Begin	August 22, 2018	
	Determine Lab Rotations	Ongoing	
	Begin First Lab Rotation	August 22 - Nov. 2, 2018	
	First Rotation Seminar	Nov. 1, 2018 at noon	
	Begin Second Lab Rotation	Nov. 3, 2018 to Feb. 8, 2019	
<b>SPRING 2019</b>	Register for PCB 6528, BOT 6935 and 1 Journal Colloquium	TBD ( <a href="http://one.ufl.edu">ONE.UF</a> )	
	Second Rotation Seminar	Feb. 8, 2019 at noon	
	Begin Third Lab Rotation	Feb. 9 - April 26, 2019	
	Third Rotation Seminar	April 26, 2019 at noon	
<b>SUMMER 2019</b>	Ph.D. Students Complete Written Exams	Starts the Monday after the May 2019 PMCB Workshop	
	Establish Supervisory Committee	By the end of summer semester <b>(Note: strongly recommended before end of summer)</b>	

**2018-2019 COHORT PMCB CHECKLIST continuation**

SECOND YEAR		DETAILS	CHECK
FALL 2019	Register for Journal Colloquium, Elective and Research Courses	TBD ( <a href="#">ONE.UF</a> )	
	Deadline to Establish Supervisory Committee ( <b>Note: if not established by mid Fall, a hold will be placed on student's records</b> )	Midpoint of Fall semester	
SPRING 2020	Register for Journal Colloquium and Research Courses	TBD	
	Ph.D. Students Prepare for the Oral Exams	Ongoing	
	Ph.D. Students Complete Oral Exams ( <b>Note: if not completed by the end of Spring, students will not be able to register for the Summer semester</b> )	Mid May	

FINAL SEMESTER	DETAILS	CHECK
Register for required research credits and apply for degree ( <i>i.e., apply to graduate this semester</i> )	<a href="http://one.uf.edu">http://one.uf.edu</a>	
Comply with instructions and deadlines deadlines set forth by the Graduate School	<a href="http://graduateschool.ufl.edu/graduate-life/graduation">http://graduateschool.ufl.edu/graduate-life/graduation</a> <a href="http://graduateschool.ufl.edu/graduate-life/graduation/graduation-checklist">http://graduateschool.ufl.edu/graduate-life/graduation/graduation-checklist</a>	
Set up an appointment with the Editorial Office and follow their guidelines and deadlines	<a href="http://graduateschool.ufl.edu/about-us/offices/editorial">http://graduateschool.ufl.edu/about-us/offices/editorial</a> <a href="http://graduateschool.ufl.edu/graduate-life/graduation/graduation-checklist/#d.en.240936">http://graduateschool.ufl.edu/graduate-life/graduation/graduation-checklist/#d.en.240936</a>	
Schedule defense	Supervisory Committee	
Announce exit seminar to PMCB	Academic Coordinator (2 weeks before defense send date, time, location)	
Obtain these forms <b>BEFORE</b> your defense: 1. ETD Signature Page 2. Final Exam Form 3. UF Publishing Agreement	Academic Coordinator	
Obtain signatures <b>AT THE DAY OF YOUR DEFENSE</b>	Committee Members	
Return these 3 forms – <b>SIGNED</b> – right after your defense	Academic Coordinator	
Send link of first author publication or letter of acceptance from peer-reviewed journal	Academic Coordinator	