The purpose of this handbook is to help students navigate the various requirements and expectations of the Graduate Program in Biochemistry and Biophysics. It describes the requirements for the Ph.D. degree and contains general information about the procedures to be followed in satisfying these requirements. These are also summarized in the "Pocket Handbook" on the final page of this handbook. You will need to consult the instructions and forms contained here at various times during your graduate studies, so please save your copy or select “Student handbook” at the website:

http://www.bio.brandeis.edu/grad/bb/index.html

The Biochemistry & Biophysics Graduate Program is an interdepartmental graduate training program with faculty drawn from the Biochemistry, Biology, Chemistry, and Physics departments. Progress of students in the program is monitored mainly by faculty of the Biochemistry Department and the Biochemistry & Biophysics Graduate Program Chair. An up-to-date list of faculty associated with this program is posted on the Biochemistry & Biophysics Graduate program webpage:

http://www.bio.brandeis.edu/faculty/list_programBB.html

Program Chair: Dorothee Kern, Volen 444, dkern@brandeis.edu, ext. 6-2354

Program administration and record keeping:
Emily Palmer in Biochemistry and Graduate Affairs Office (Ros/Kos 3-RK02), scigradoffice@brandeis.edu, ext. 6-2369

The graduate affairs office consists of:
Maryanna Aldrich, maldrich@brandeis.edu 6-4850
Emily Palmer, emilydpalmer@brandeis.edu 6-2369
Anne Lazerson, lazerson@brandeis.edu 6-2327
Jena Pitman-Leung, jpitmanleung@brandeis.edu, 6-2302

The biochemistry office also consists of:
Maryanna Aldrich, maldrich@brandeis.edu 6-4850
Jennifer Roy, jroy@brandeis.edu, 6-2353
Laura St. Clair, lstclair@brandeis.edu, 6-2308
Degree requirements -- General Information
To obtain the Ph.D. degree, students must satisfy both the general requirements of the graduate school and the specific requirements of the Biochemistry & Biophysics Graduate Program. Both sets of requirements are summarized in the Brandeis catalog: http://www.brandeis.edu/registrar/bulletin/

The following sections contain additional details about the program requirements.

The student is responsible for fulfilling each requirement before the relevant deadline. Students failing to complete requirements on time may, at the discretion of the faculty, be required to leave the Program.

Students in the Biochemistry & Biophysics Graduate Program are expected to work full-time towards the degree throughout the entire calendar year. Students should be aware that scientific research is a demanding occupation and that researchers often find it necessary to do work on nights, weekends, and holidays in addition to that during "normal working hours." This precludes students undertaking outside employment or outside academic activities that would require a significant amount of time.

The Graduate School requires that "Students entering Brandeis University with no previous graduate work must earn the doctorate within eight years from the inception of study. Students who are granted credit for a year of graduate work completed elsewhere must earn the degree within seven years from the inception of their study at Brandeis."

However, the Biochemistry & Biophysics Graduate Program expects students to complete Ph.D. thesis research before year 5.5.
Requirements for the Ph.D. degree

1. Courses

To fulfill the course requirement for the Ph.D. degree, the student must complete each course with a letter grade of B- or higher. To make any subsequent modifications to the Required Program of Study, the student must obtain, in advance, written approval from the Program Chair. All elective courses must be chosen with consultation of the Program Chair.

The required Program of Study consists of seven one-semester courses. The student will meet with the program chair to discuss the selection of courses before registering for courses. The only explicitly required course is BCBP 200b, *Readings in Macromolecular Structure-function Analysis*, but all courses must be approved by the graduate program chair. In addition, students must complete one year of laboratory rotations, BCBP 300a and BCBP 300b, and attend the two-day Division of Science Responsible Conduct of Scientific Research (RCR) Mini-course, which do not count towards the seven courses required. For the 2018-2019 academic year, the RCR Mini-course will be held on January 10\textsuperscript{th} & 11\textsuperscript{th} 2019. All graduate students beyond the first year must register for BCBP 401 *Biochemical Research Problems*, the official designation for Ph.D. thesis research. That course also does not count toward the seven course requirement. The following is a typical program of study:

The following is a typical program of study:

**Year 1, Fall Semester**

- BCHM 100a Introductory Biochemistry OR
- BCHM 101a Advanced Biochemistry: Enzyme Mechanism
- BCHM 102a Quantitative Approaches to Biochemistry
- BCBP 300a Laboratory rotations

**Year 1, Spring Semester**

- BCHM 104b Physical Chemistry of Macromolecules
- BCBP 200b Readings in Macromolecular Structure-function Analysis
- BCBP 300b Laboratory rotations
- Responsible Conduct of Scientific Research Mini-course

**Year 2 and 3**

- BCBP 401 Biochemical Research Problems (all four semesters of years 2-3)

*Three additional courses, often including one or more of these:*

- BCHM 103 Advanced Biochemistry: Information Transfer Mechanisms
- CHEM 235 Advanced NMR Spectroscopy
- BCHM 171b X-ray crystallography
- PHYS 105a Biological Physics
QBIO 110a Numerical Modeling of Biological Systems
QBIO 120b Quantitative Biology Instrumentation Laboratory

Year 4 and beyond
BCBP 401 Biochemical Research Problems (every semester)

Note that the passing grade for Biochemistry & Biophysics PhD students is a B-. Students failing to earn a passing grade will be required to re-take that course (or equivalent). In addition to passing the formal course requirements, all students should endeavor to keep abreast of current developments in Biochemistry & Biophysics and related fields. To accomplish this, students are urged to attend the following seminars weekly during the academic year:

1) The Biochemistry & Biophysics Friday Pizza Talks

2) One or more departmental colloquiums or specialty journal clubs according to the student's interest.

The research talks sponsored by the students from the MSM and QB training programs are mandatory for all 2nd year and above students once per year. These Tuesday evening talks are an important component of the BCBP graduate education and are essential to the training grants. Presenting scientific results and open scientific discussions with peers of different background are very important components for a successful scientific career.

All students in years 2+ will be required to present once per year in the series. The talk must be about a student’s own work. Attendance at the talks is not mandatory, but strongly encouraged for each student’s benefit, and will be recorded and monitored by the faculty.

Biochemistry & Biophysics Ph.D. with Specialization in Quantitative Biology (QB)

In order to receive a Ph.D. in Biochemistry & Biophysics with a specialization in Quantitative Biology, students must complete the requirements defined above for the Biochemistry & Biophysics Ph.D. degree and in addition must satisfy the course requirements for the QB specialization that are described in the quantitative biology section of the Bulletin. Any alteration to the QB course requirements must be approved by the QB program faculty advisory committee. With the approval of the graduate program chair, courses taken to satisfy the QB specialization requirements can be used to satisfy course requirements of the Biochemistry & Biophysics Ph.D. degree.

Students wishing to obtain the specialization must first gain approval of the graduate program chair or QB liaison (Prof. Kern or Prof. Gelles). This should be done as early as possible, ideally during the first year of graduate studies. For information on how to
apply to the QB program, see http://www.brandeis.edu/programs/quantbio/application.html

2. Rotations and acceptance by dissertation advisor

All first year students are required to register for the research rotations (BCBP 300a,b). Every student is required to complete four rotations of nine weeks each in four different laboratories during the academic year (specific dates below). The choice of laboratory rotations is made jointly by the student, the chair of the graduate program, and the faculty member in whose lab the rotation is to take place. Students may choose advisers from any department within the Division of Science. The complete list of faculty research interests can be found at: www.bio.brandeis.edu.

During orientation week, students will attend a three-night faculty bazaar where faculty members will introduce their work. After, students will turn in a list of five top choices for the first rotation, due to the Graduate Affairs office by 9am on Friday, August 31st. We will then assign students to a first rotation by Friday, August 31st at 4:30pm, doing our best to give everyone their first or second choice.

The remaining three rotations are the responsibility of the student to arrange with the appropriate faculty member ahead of time. We recommend that you arrange your rotations as early as possible. At the end of each rotation, the student will give an oral presentation of their research project to the Biochemistry Department.

By the end of each rotation, the student will submit a written rotation report. One electronic copy should be sent to the program administrator in the Division of Science Graduate Affairs Office, one should be provided to the laboratory head in which the rotation was done, and one should be given to the Rotation Committee Chair (currently Timo Street).

**Rotation Schedule:**

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After the first year, research for the PhD dissertation is carried out under the supervision of a faculty adviser. Advisors can be chosen from any department within the Division of Science. The complete list of faculty research interests can be found at: www.bio.brandeis.edu.

Dissertation advisors can be chosen ONLY during the specified time period: May 13-24, 2019. Choices must be made by Friday, May 24. It is Biochemistry tradition/policy that both students AND professors are forbidden to discuss dissertation advising issues until the specified period.
Ordinarily, students choose a research laboratory immediately upon completion of the fourth laboratory rotation in May of the first year. However, some students elect to do a fifth rotation during the summer after the first year’s courses are completed. In that case, the Ph.D. advisor must be selected before the beginning of the student's second year. Students unable to find an advisor willing to accept them by the beginning of the second academic year will not be permitted to continue in the Ph.D. program.

If you have any questions about rotations, please contact Timo Street (tstreet@brandeis.edu).

3. Teaching

All Ph.D. candidates are required to serve as teaching assistant for two courses, sections, or labs. This is usually done in the student's second year of study.

4. Propositions

Propositions are research proposals that the student writes and then defends in an oral exam. Each student must pass two propositions in order to obtain the Ph.D. degree. Each proposition is an original research proposal based on an understanding of current literature in specific fields of research. The student should identify an interesting and experimentally tractable question at the forefront of biochemistry or biophysics, and should design a plan to attack this question (and maybe even to answer it!).

The first proposition (the "inside" proposition) should be in the general field of the student's dissertation research. If the student wishes, it may take the form of a thesis research proposal, but this is not a requirement. This proposition must be completed before the beginning of the second semester of the second year (~ Jan 15).

The second proposition (the "outside" proposition) is a proposal for research that does not cover the field of the student's Ph.D. research. This proposition must be completed by June 1 in the second year. Students that fail to meet this deadline may not be readmitted into the program for a second year.

Students may choose to complete either the inside or outside proposition first, but typically the inside is completed first. At the time of exam scheduling, the faculty committee and Graduate Affairs Office must be notified of which exam is being taken.

For both propositions, the chosen topic should be approved by the thesis advisor well in advance. The examining committee, consisting of three faculty members including the thesis advisor, should be assembled in advance by the student and must be approved by the Chair of the Biochemistry & Biophysics Program. The propositions are defended orally before the committee. The Chair of the committee should NOT be the advisor.
The student must inform the Grad Affairs Office of the dates of the proposition exams in advance. **Each member of the committee must be given a final copy of the written proposition no later than three days before the examination date.** The student should bring a copy of the proposition defense form (see Appendix) to the oral exam for the signatures of the committee. **It is the responsibility of the student to choose the proposition committee, to schedule the oral presentation, and to reserve a room through the Biochemistry office.**

Written proposition. Proposition topics are original research proposals formulated by the student. The subject of each proposition must be approved by the student's dissertation advisor. Propositions are academic exercises only; students do not actually perform the research proposed. A proposition defines a specific current research problem and proposes the experimental means to investigate it.

The proposition should clearly and explicitly define a goal of the proposed research. Usually, the goal is to answer a single, specific scientific question.

The proposition should make a convincing case, using appropriate literature citations, that achieving the goal would be scientifically worthwhile and should summarize (with references) relevant work done by others.

The proposition should also describe a practical plan of experiments by which the goal could be achieved. The plan should explicitly state the experimental methods to be used and contain sufficient detail, including literature citations, to allow the reader to evaluate its feasibility.

The written proposition is typically ~10 pages in length (double-spaced). Many students have found the following format, based on that used in NIH grant proposals, to be useful: i) Specific Aim; ii) Significance; iii) Background and iv) Experimental Plan. This should include citation of pertinent literature relating to the project.

Oral examination. The student should prepare a 30-minute presentation, which will in practice end up as a one-hour discussion. The student should bring a copy of the proposition defense form (see Appendix, p. 14) to the oral exam for the signatures of the committee. The signed proposition defense form is to be given to the Graduate Affairs Office.

Grading. Propositions are graded pass-fail. Students receiving a failing grade are ordinarily given the opportunity to repeat the defense within five weeks of the initial defense.

5. Progress Meetings

Starting with the third year of study, the student meets with a faculty committee of three
members at least once every academic year to discuss progress towards completing research and the dissertation. The committee, which includes the dissertation advisor, is chosen by the student, and its makeup should approximate that of the intended dissertation committee. The student should bring to the meeting the required form (see Appendix) which the committee members sign to indicate whether the student is making satisfactory progress toward completion of an acceptable dissertation. **Students should not view these meetings as exams!** Their sole purpose is to facilitate the student's trajectory towards a successful dissertation.

For the first Progress Meeting, held in the third year, the student should submit a written description of the general aims of the thesis research-project and the progress made towards these aims. In subsequent years, the meetings are more informal and do not require a written report. However, students often find it helpful to prepare a written outline to bring to the meeting. The student should bring a copy of the progress meeting form (see Appendix, p. 15) to the meeting for the signatures of the committee. The signed progress meeting form is to be given to the Graduate Affairs Office.

The suggested sliding timeline for when students should have their Progress meetings is below:
- 1st meeting: held May-June at the end of the 3rd year
- 2nd meeting: held July-September at the end of the 4th year/beginning of 5th year
- 3rd meeting: held October-November of the 6th year

Students who are within 9 months of defending are encouraged to schedule a final progress meeting.

Meetings must be held annually. However, if a student’s progress is deemed to be unsatisfactory by their committee, the committee may require that they meet again sooner (after a certain number of weeks or months, as determined by the committee and noted on the progress meeting form). If a student is not displaying satisfactory progress, their committee will indicate and convey to the student their expectations for their next meeting. At the discretion of the progress committee and the Graduate Program Chair, students who are not displaying satisfactory progress may be placed on probation or may not be re-admitted into the program during the annual re-admission process in the Spring/Summer.

Students should feel free to call a Progress Meeting at any time, i.e., before the scheduled time, if they feel that the advice of a committee would be helpful.

**6. Residence**

The graduate school requires a student be resident at Brandeis (i.e., enrolled as an on-campus graduate student) for three years to receive the Ph.D. degree. Consult the Brandeis catalog and/or the Graduate Affairs Office if you need more information on the residency requirement.
7. Dissertation

The Ph.D. candidate must write a dissertation that summarizes the results of an original investigation of an approved subject and which demonstrates the competence of the candidate in independent research. In general, students are expected to have at least one first-author paper in a format ready to be submitted to a journal. The student must give a public seminar on the dissertation research.

A final oral examination based on the dissertation must be passed. The defense committee will be composed of 3-4 faculty members, one being the dissertation advisor. At least one of the members of the defense committee should be chosen from outside the Biochemistry & Biophysics Program (and is customarily from outside the University). The examination is open only to the student, the committee, and members of the Biochemistry & Biophysics Graduate Program faculty.

It is the responsibility of the student:

- to ensure that all graduate program requirements are satisfied before the dissertation exam.
- to ensure that the dissertation is in a form and format acceptable to GSAS and is submitted by the required deadlines (students should obtain specific instructions for the preparation of the dissertation directly from the Graduate Affairs office and GSAS before starting to prepare the dissertation).
- to arrange a time and place for the Ph.D. defense at least two weeks in advance.
- to fill out and return the Defense Examining Committee Form (DEC) (obtained from GSAS) with the required signatures at least two weeks prior to the defense, and give a copy to the Biochemistry and Graduate Affairs office.
- to give a copy of the dissertation to each committee member, as well as a copy to Biochemistry and Graduate Affairs office, at least two weeks before the defense. You may retrieve the copy left in the office following the defense.
- to come to the examination with the forms required by the university: (1) PhD Dissertation Defense and Oral Exam form (obtained from the registrar's office), and (2) Signature Page form.
- to obtain the signatures of the members of the dissertation defense committee and, as soon as possible after the defense, to give a copy of these forms to the Biochemistry and Graduate Affairs office and to take the original copies to the registrar’s office and GSAS.

Students have not fulfilled the dissertation requirement until the final version of the dissertation, including any changes required by the committee and GSAS, is submitted to GSAS. The Report on PhD. Revisions form must be submitted to the Registrar before the dissertation is submitted. For theses that include copyrighted material (for example, text already published in journal articles), copyright permission must be obtained from each journal and submitted to GSAS with the dissertation. There is usually no need to get permission from co-authors, since it is usually the journal, not the authors, that owns the copyright.
The Graduate School requires that the oral exam be retaken if the final thesis is not submitted sufficiently soon after the exam; if delays are anticipated please consult the Graduate Affairs office.
Summary of deadlines for Ph.D. degree requirements

End of second semester of year 1:
-- pass first-year courses
-- be accepted by dissertation advisor (for students doing only four rotations)

Before start of year 2:
-- be accepted by dissertation advisor (for students doing five rotations)

Before start of second semester of year 2:
-- pass first proposition (the “inside” proposition)

End of year 2:
-- pass second proposition (the “outside” proposition) before June 1

Late Summer of year 2/Early autumn of year 3:
– Set up a Progress Meeting Committee and present proposed thesis project

In every subsequent year:
-- complete Progress Meeting

Note: For the purpose of program deadlines, "end of the second semester" refers to the date listed in the Brandeis academic calendar as the date final grades are due, and "before the start of year" means before the first day of classes.

Information for first-year students

Prior to arriving to campus, first year students will be emailed information about orientation activities, registration, and class schedules. **It is mandatory that you attend the Orientation Meeting scheduled for your program.** After arriving to campus, first-year students should stop by the Biochemistry Department Office/Graduate Affairs Office (Ros/Kos 3-RK02) to check your mailbox (located in the hallway outside the Biochemistry office). Your primary administrative contact in the graduate affairs office will be TBD, who can be found in the Biochemistry and Graduate Affairs office in Ros/Kos 3-RK02. Please also contact the Biochemistry & Biophysics Graduate Program Chair (Dorothee Kern, Volen 444) to set up an appointment to discuss your course selections. It is best not to register for classes until after this meeting.

Miscellaneous information

As a graduate student, your only official affiliation with Brandeis is as a member of the graduate program, not of a department (e.g., Biochemistry) or center (e.g., Volen).

The following is information from the Registrar's office which all students (both first-year and beyond) should be aware of:
"Every semester some graduate students completely overlook their obligations to enroll in classes, thinking it a matter of little importance which can easily be corrected at anytime. This is a false impression. We will make a concerted effort to reach unregistered and unenrolled students in advance of the deadline. But thereafter, we are not at liberty to enroll students in courses; we will presume they are not in attendance, and process their withdrawal from the University, which in turn will invalidate any financial support they may be receiving."

However, first-year students should not register until they discuss their academic program with the program chair.
**Transition from MS to PhD Program:**

Students who have earned a MS at another institution will be admitted as normal first-year students. Students in the Brandeis Biochemistry & Biophysics MS program who apply to and are accepted into our Biochemistry & Biophysics PhD program may be transitioned into the program and considered as third year PhD students. An admissions decision will be made as early as possible to expedite the transition to PhD. These students must complete the same requirements as students who enter directly as PhD students, with the following alterations to their timeline:

**Matriculation date:**
MS students will enter the PhD program in the summer after their MS year and matriculate as PhD students that summer, typically with a start date of June or July 1\textsuperscript{st}. The start of stipend payments will coincide with their matriculation date. Any exceptions to this timeline must be discussed with and approved by the graduate committee.

**Courses:**
Courses taken during the MS year may count towards the PhD course requirement, if they qualify as such a course (to be approved by the graduate chair). MS students applying to the PhD program will be encouraged to take Bchm102 in their second Fall semester. MS students admitted into the PhD program are expected to take BCBP200 in their final MS semester. These students are expected to complete the remaining classes as soon as possible after transitioning to the PhD program.

**Rotations and Selection of Dissertation Lab:**
In most cases, MS students who transition to the PhD program are expected to continue their research in the same lab in which their Master’s Thesis was completed. Exceptions to this will be considered on a case-by-case basis. Should a lab change occur, the possibility of additional lab rotations before changing labs will be discussed on a case-by-case basis.

**Teaching Obligations**
MS students who transition to the PhD program will not be required to serve as teaching assistants.

**Outside Examination:**
These students will be required to complete a single “outside proposition defense within the first year of their transition to the PhD program. All guidelines and requirements are the same as for students who enter the program directly as PhD students.

**Inside exam:**
The Master’s Thesis will be considered analogous to the inside proposition. Students who have applied to and have been admitted to the PhD program will be
required to orally defend their Master’s Thesis, following all guidelines for the oral inside examination as described for students who enter the program directly as PhD students. This oral defense will take the place of the 15-minute Thesis presentation given by Master’s students prior to acceptance of their thesis, but should be completed by the same date as the 15-minute presentations. All other thesis expectations and requirements remain the same.
Biochemistry & Biophysics Program
Proposition Defense Form

**Proposition defense form for:** ____________________________________________

(student's name)

This inside/outside (please circle one) proposition defense took place on

__________________________

(date)

The grades were:

Written proposition -- pass fail;

Oral examination -- pass fail;

___________________________  _______________________________

(chair signature)     (chair printed name)

___________________________  _______________________________

(committee member signature)   (committee member printed name)

___________________________  _______________________________

(dissertation advisor signature)   (dissertation advisor printed name)

**Instructions for the student:** Give a copy of this form to the examination committee chair before the exam.

**Instructions for the chair of the examination committee:** Please give the completed form to the Biochemistry and Graduate Affairs Office, Ros/Kos 3-RK02.
The undersigned held a meeting with

________________________________ on _______________________

Student’s name    date

to discuss his/her progress toward the completion of the Ph.D. degree.

Comments:

_____________________________  ___________________________
(committee member signature)   (committee member printed name)

______________________________ ____________________________
(committee member signature)   (committee member printed name)

______________________________ ____________________________
(dissertation advisor signature)   (dissertation advisor printed name)

Instructions for the student. Photocopy and give original to the Biochemistry and Graduate Affairs Office, Ros/Kos 3-RK02. Please also keep a copy in your own files.
Graduate Teaching Assistants

Assignments. Over the course of graduate study, each Ph.D. student is required to teach undergraduate sections, courses, or labs. These are usually done in the second year. TA assignments are made before the summer prior to the commencement of teaching responsibilities. In rare cases of unexpected enrollment shifts, cancellation or addition of courses, or inequities in work loads, assignments may be changed with little notice. In such a case the teaching assistants concerned will be notified as soon as the changes are known.

Responsibilities. Graduate teaching assistants and faculty members will discuss course requirements, attendance policies and the range of graduate responsibilities (e.g. in class or lab, outside class or lab, administrative duties, technical assistance).

If graduate teaching assistants are to grade undergraduate work, the faculty member and TA will discuss the number of assignments, grading procedures and standards and an expected range of grades.

Graduate teaching assistants should hold weekly office hours as needed for the course.

Graduate teaching assistants are seldom asked to tutor students requiring additional help. If regular tutoring is needed to address difficulties in the course, the graduate student will refer the problem to the professor and, if necessary (and agreed upon), to the appropriate agency on campus for additional assistance.

All students serving as TAs must attend GSAS TA and Title IX training, generally held at the start of the Fall semester. Faculty members will also advise graduate teaching assistants on policies for academic honesty at the beginning of the term, at which time procedures for alerting the proper university officers and dealing with such matters will be agreed upon.

Graduate teaching assistants are encouraged to discuss teaching with the professor or with a member of the graduate committee.

Graduate teaching assistants are advised to consult teaching materials available at the Office of the Dean of Arts & Sciences and to attend teaching seminars sponsored by the Graduate School.

Every attempt should be made to resolve difficulties arising between graduate teaching assistants and faculty members. If such resolution is impossible, official grievances should be made per the stated procedures in the student handbook.
Graduate teaching assistants are encouraged to document teaching experiences for future job searches. Faculty members should agree to provide letters of reference for teaching which will be included in the student's departmental file.
Here's what you have to do - and when:

**First year**

**Mandatory attendance at the Orientation Meeting.**
**Meet with Program Chair** (Dorothee Kern, Volen 444) to plan out your academic courses.
**Visit the Biochemistry and Graduate Affairs Office** (Ros/Kos 3-RK02) with your student ID, so that Jenn Roy can give you the appropriate card access. You will be required to **take online safety training** before being granted building access.

**Register** for classes.
Start completing your **course requirement**, **You must take:** BCBP 300a,b and BCBP 200b. Attend the RCR Mini-course. During the 4th rotation, choose a Ph.D. thesis advisor.
In May, you will receive T.A. assignments for next year.

**Second year**

Continue towards completing your **course requirements**
Register for **BCBP 401** from this point forward
Carry out **T.A. assignments**
Prepare your **1st Proposition Defense** (written and oral), to be completed before mid-Jan
Prepare your **2nd Proposition Defense** (written and oral), to be completed before June 1

**Third year**

Continue towards completing your **course requirement**
Choose **Progress-Meeting** committee - in fall semester. You will be prompted to do this, but it is your responsibility to schedule your meeting.

**Succeeding years**

Complete **course requirement**
Yearly **Progress Meeting**: you will be prompted to arrange this, but it is your responsibility to schedule your meeting.

You should aim to have completed your Ph.D. research by the end of year 5. This does not always (or often) happen, but you should certainly be finished in year 6.

**Hint:** As you begin to see light at the end of the tunnel, start to think about where you want to do postdoctoral research **12-18 months in advance**. Contact prospective postdoc advisors and give them plenty of lead-time in knowing that you're interested in working with them. An early-bird attitude will enhance the likelihood of your acceptance into your preferred postdoctoral lab.