



GRADUATE PROGRAM HANDBOOK

Department of Physics – Drexel University

AY 2021-22

GRADUATE PROGRAMS IN PHYSICS

This document describes the graduate programs in the Department of Physics and reflects current information, policies, and procedures for graduate students. This document supplements Graduate College policies.

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MASTER OF SCIENCE AND DOCTORAL DEGREE REQUIREMENTS

The Master of Science (MS) with or without thesis, and Doctor of Philosophy (PhD) degrees are conferred in recognition of breadth of scholarship. Candidates are required to complete a minimum of 45.0 credits of coursework while maintaining a minimum GPA of 3.0. Doctoral candidates need to demonstrate ability to investigate scientific problems independently and efficiently. MS candidates pursuing the MS degree with thesis need to demonstrate capacity to effectively use knowledge in physics to pursue a solution of a research problem. Advancement to doctoral candidacy or pursuit of the MS degree with thesis also requires a minimum GPA in core courses of 3.0, with no more than two core course grades below B-.

PhD candidates must pass a candidacy examination, satisfy a one-year residence requirement, perform original research, write a satisfactory thesis describing that research, and defend this thesis in an oral examination. The usual schedule for physics graduate students includes an initial two-years of course work, research training, and completion of the candidacy exam, followed by three or more years of dissertation research (here and throughout, "dissertation" and PhD "thesis" are used interchangeably). It is required by the university that a graduate student completes the Ph.D. degree within seven years after enrollment. The department expects that most PhD students will complete the PhD in five years and will not support PhD students beyond their sixth year.

1. Orientation

All entering full-time students are required to attend the orientation program. This program is offered during the two weeks prior to the start of the fall quarter and includes activities organized by both the Department of Physics and the Graduate College. During morning sessions in the department, students participate in a scientific computing workshop that introduces programming tools needed for future classwork and research. Afternoon sessions in the department include research talks by faculty and current students, discussion of department policies, and a session on responsibilities of teaching assistants. Orientation is an excellent opportunity to meet fellow students, faculty, and staff and become familiar with campus resources. By the end of this period, students will be on their way to tackling computing problems and have an idea of the range of research possibilities in the department. The program also includes activities and informal social events with current graduate students, concluding with a camping trip on the final weekend.

2. Course Requirements

Core courses cover topics of relevance to all physics sub-disciplines, including Mathematical Physics (PHYS 501), Dynamics I (PHYS 506), Electromagnetic Theory (PHYS 511 & PHYS 512), Quantum Mechanics (PHYS 516 & PHYS 517), and Statistical Mechanics (PHYS 521 & PHYS 522). All core courses are required for MS and PhD students alike.

A minimum 50% of the grade assigned to the core courses will be based on comprehensive in-class final and/or midterm exams covering the topics described in the course catalog. A

minimum GPA of 3.00 is required for core courses. PhD students and the MS students who want to pursue the MS with thesis should have no more than two core course grades below B-.

Graduate students should complete the following 8 core graduate level courses and 12 credits of elective coursework within the first 2 years. Although not required, students pursuing the MS degree without thesis may complete one 3-credit research course (PHYS 997). MS students pursuing the MS degree with thesis should successfully complete at least one 3-credit research course (PHYS 997) in their first year and the 9-credit PHYS 898 (MS Thesis) in their second year. For those pursuing PhD or MS degree with thesis, two of the four topics courses should be outside the student's research specialty.

Core Courses		Credits
PHYS 501	Mathematical Physics I	3.0
PHYS 506	Dynamics I	3.0
PHYS 511	Electromagnetic Theory I	3.0
PHYS 512	Electromagnetic Theory II	3.0
PHYS 516	Quantum Mechanics I	3.0
PHYS 517	Quantum Mechanics II	3.0
PHYS 521	Statistical Mechanics I	3.0
PHYS 522	Statistical Mechanics II	3.0
Research		
PHYS 997	Research	1-9.0
Topics Courses		
PHYS 502	Mathematical Physics II	3.0
PHYS 518	Quantum Mechanics III	3.0
PHYS 531	Galactic Astrophysics	3.0
PHYS 532	Cosmology	3.0
PHYS 540	Big Data Physics	3.0
PHYS 553	Nanoscience	3.0
PHYS 554	Quantum Technology	3.0
PHYS 558	Quantum Information	3.0
PHYS 561	Biophysics	3.0
PHYS 562	Computational Biophysics	3.0
PHYS 576	Particle Physics	3.0
PHYS 626	Solid State Physics I	3.0
PHYS 627	Solid State Physics II	3.0
PHYS 631	Relativity Theory I	3.0
PHYS T580	Special Topics in Physics	3.0
PHYS T780	Special Topics in Physics	3.0
Dissertation Course		
PHYS 898	MS Thesis	3.0
PHYS 998	PhD Dissertation	1-9.0

Topics courses are an introduction to current topics of experimental and theoretical interest. They are offered in alternate years. Doctoral candidates who wish to take additional topics courses should register for fewer credits of PHYS 998. The total number of tuition credits is fixed.

Students supported by fellowships (IF or RF) receive tuition remission for required coursework only, and must obtain authorization in advance from the Department Head or Associate Department Head for Graduate Studies if they wish to take courses outside the Department. Students will be financially responsible for any unapproved tuition credits.

PhD Sample Plan of Study

First year			
Fall	Winter	Spring	Summer
PHYS 501	PHYS 516	PHYS 517	PHYS 997 Research
PHYS 506	PHYS 511 (or PHYS 521)	PHYS 512 (or PHYS 522)	
Topics Course	Topics Course	PHYS 997 Research*	
Second year			
Fall	Winter	Spring	Summer
Topics Course*	PHYS 521 (or PHYS 511)*	PHYS 522 (or PHYS 512)	PHYS 998 Dissertation Research
PHYS 997 Research	Topics Course	PHYS 997 Research	
	PHYS 997 Research		

** 3.0 credits of PHYS 997: Research must be taken by Spring of the first year. A spring topics course may be elected only if PHYS 997 is taken earlier in that year.*

Core course sequences PHYS 511/512 and 521/522, and Topics courses are offered in alternate years. The schedule of courses is listed in section 4. [Physics Graduate Course Offerings](#) of this handbook.

Students should plan which topic courses they will take during the academic year. It is allowed to substitute 3 credits of PHYS 997 for a topic course in a quarter of the student's second year studies.

After advancing to doctoral candidacy (typically after spring of the second year), students should register for PHYS 998 Dissertation Research in all quarters in which they are on campus (note that international studies must be continuously registered to maintain visa status). Students are limited to a maximum of 9 dissertation credits per quarter.

Important: Students should enter the right amount of credits when registering for PHYS 997 and PHYS 998 (default is 1 credit).

Sample Plan of Study (MS without Thesis)

First year			
Fall	Winter	Spring	Summer
PHYS 501	PHYS 516	PHYS 517	
PHYS 506	PHYS 511 (or PHYS 521)	PHYS 512 (or PHYS 522)	
Topics Course	Topics Course	Topics Course	
Second year			
Fall	Winter	Spring	Summer
Topics Course	PHYS 521 (or PHYS 511)	PHYS 522 (or PHYS 512)	
	Topics Course	Topics Course	

Sample Plan of Study (MS with Thesis)

First year			
Fall	Winter	Spring	Summer
PHYS 501	PHYS 516	PHYS 517	
PHYS 506	PHYS 511 (or PHYS 521)*	PHYS 512 (or PHYS 522)*	
Topics Course	Topics Course	PHYS 997 Research	
Second year			
Fall	Winter	Spring	Summer
Topics Course	PHYS 521 (or PHYS 511)*	PHYS 522 (or PHYS 512)*	
PHYS 898	PHYS 898	PHYS 898	

Core course sequences PHYS 511/512 and 521/522, and Topics courses are offered in alternate years. The schedule of courses is listed in section 4. Physics Graduate Course Offerings of this handbook.

PhD Students Admitted with Post-Master's Status

Students who are admitted for PhD study with “post-masters” status must take 15 credits of graduate coursework with a minimum GPA of 3.0 to become doctoral candidates. Courses are to be chosen in consultation with the Graduate Academic Committee. Post-master's students are expected to pass the candidacy exam by the end of the spring quarter of their first year of study. To be prepared for the candidacy exam, post-master's students should begin research as soon as possible (see Research Requirements below).

3. Course Registration

All full-time students must register online via [DrexelOne](#) in each term in which they are active for a total of 9 credits of required courses. Make sure that you register for the correct courses and number of credits. Failure to follow instructions may result in a financial hold that will (a) cause

you to be billed, (b) prevent you from registering in the future, (c) damage your visa status, (d) cause you to lose your health insurance, (e) cause your student loan to be called in.

Here are the steps to remember when registering for courses:

- Student Financial Obligation (SFO) Statement – Reading and completing the SFO is done via DrexelOne once time tickets have opened for the following term. You will be prompted to complete the SFO before you are allowed to register. If you opt to disagree with the SFO, a hold will be placed on your account preventing registering. Students graduating, going on vacation or completing a leave of absence or university withdrawal have the option to indicate "No Interest" to the SFO for the term they will not be registering for.
- Complete Your Course Registration – [Student Guide: New Registration Interface \[PDF\]](#) – Download the guide as a reference for navigating the new registration interface.
- [Confirm Your Enrollment](#) – Make sure you confirm your enrollment each term you are scheduled for courses. Learn more about the process.

4. Physics Graduate Course Offerings

Courses are offered in the following terms. For a detailed list of course descriptions, please visit [Drexel's catalog](#).

Every Year

Fall	Winter	Spring
PHYS 501 Math Physics I	PHYS 516 Quantum Mech I	PHYS 517 Quantum Mech II
PHYS 506 Dynamics I	PHYS 997 Research	PHYS 997 Research
PHYS 997 Research	PHYS 998 PhD Dissertation	PHYS 998 PhD Dissertation
PHYS 558 Quantum Inf	PHYS 554 Quantum Tech	
PHYS 998 PhD Dissertation		

Even Years

Fall	Winter	Spring
PHYS 626 Solid State Phys I	PHYS 511 Electrom Theo I	PHYS 512 Electrom Theo II
PHYS 540 Big Data Physics	PHYS 553 Nanoscience	PHYS 627 Solid State Phys II
	PHYS 576 Particle Physics	PHYS 631 Relativity Theory I

Odd Years

Fall	Winter	Spring
PHYS 531 Galactic Astrophys	PHYS 521 Statistical Mech I	PHYS 522 Statistical Mech II
PHYS 561 Biophysics	PHYS 532 Cosmology	PHYS 679 Standard Model
	PHYS 562 Comp Biophysics	

5. Research Requirements

5.1. Research Requirements (PhD Students)

Students begin research in the spring and summer terms of their first year. The spring project culminates in a poster presented to the department. A two-page proposal for their summer research is also due at the end of the spring term. At the end of the summer, students are required to submit an in-depth written report and give an oral presentation of their summer project. Research during the second year is toward the candidacy exam. Details of these research requirements are as follows.

New Entering Students	Requirement
Spring 1 st year	Poster
	Two-page proposal for summer research
Summer 1 st year	Written Report (10-15 pages)
	Oral Presentation
Spring 2 nd year	Candidacy Exam (written report and oral exam)

Research requirements are divided into three parts. Note that a student may complete these Research Requirements on different topics and/or with different research advisors.

Research 1. The first part of the research requirements consists of carrying out a small research project during their first-year spring term. Students will be required to present a poster at the end of the spring term highlighting their procedure, results, and conclusions of this short project. To introduce students to common professional skills, the format of the poster will follow standard formatting normally used in scientific conferences, including a section detailing "future research plans" that could naturally extend their research. In addition to the poster, students will also be required to write a two-page proposal for their planned summer research. That proposal must be approved in writing by the research advisor. The grade for the spring PHYS 997 course will be assigned by the faculty research advisor.

Research 2. The second part of the research requirements will be carried out during the summer of the student's first year and will consist of a more in-depth investigation of the topic examined during the spring term (and outlined in the spring research proposal) or a different one as determined by the faculty advisor. This investigation will result in a written report of 10-15 pages with content and format following professional practice, but generally including three aspects: review of the problem area, formulation and solution of the problem, and suggestions for further research. In addition, students will be required to give an oral presentation to the department. The oral presentation will consist of a brief presentation of background information that puts the problem in context within the field, the approach used to address the problem, and conclusions supported by the data. The oral presentation is expected to last 20 to 30 minutes. Emphasis will be given to scheduling these presentations during the new graduate student orientation period. The grade for the summer PHYS 997

course will be assigned by the faculty research advisor using grading rubric similar to that currently used for the Qualifying Exam, presented below.

Research 3. The third part of the research requirements will consist of the Candidacy Exam described below.

Post-masters students joining the department will be exempt from the Research 1 and 2 requirements listed above. However, they will have to prepare a two-page progress report and proposal of their 2nd year research. The progress report and proposal will be due by the end of the fall term of the first year and will be evaluated for content and appropriateness by the Graduate Academic Committee in conjunction with their faculty advisor.

Entering Post-Masters Students	Requirement
Fall 1 st year	Two-page progress report and proposal for 2 nd year research
Spring 1 st year	Candidacy Exam (written report and oral exam)

5.2. Research Requirements (MS Degree with Thesis Candidates)

Research requirements are divided into two parts, which need to be completed with the same research advisor.

First, MS students who want to be considered for the MS degree with thesis should carry out a research project during their first-year spring term. At the end of the spring term, students will be required to write a two-page proposal for their planned future research. This proposal must be approved in writing by the research advisor. The grade for the spring PHYS 997 course will be assigned by the faculty research advisor. Upon completion of the spring PHYS 997, the student should ask the faculty research advisor to provide a letter of support with a commitment to serve as the student's MS thesis advisor. The research proposal with the letter of support should be submitted to the Graduate Academic Committee no later than the last day of class in the spring quarter. The Graduate Academic Committee will seek to review such proposals by the end of week 1 of the summer quarter. If approved, then the MS student may pursue the MS degree with thesis.

Second, the MS students approved for the MS degree with thesis need to complete at least 9 credits of the PHYS 898 course, which will culminate in the MS thesis defense with requirements that match the oral candidacy exam of the PhD candidates. The MS thesis should be based on original research performed by the student. A written report should be submitted to the MS thesis defense committee and the Associate Head for Graduate Studies at least one week prior to the defense, which consists of a public seminar followed by an oral exam conducted by a faculty committee. The time, date, and location of the talk should be announced by the student by e-mail and by posting a notice in the Department's Main Office one week before the defense. The written report will be comparable to a term research project report of 10–20 pages. The subject matter will be at the discretion of the student with approval of a faculty research advisor. The written report will include three aspects: review of the problem area; formulation and solution of a small problem; suggestions for further research.

The oral examination by five faculty will follow the public seminar. The defense will last about one hour and will include material related to the research report. The purpose of the MS thesis defense is to clarify material in the MS thesis and to demonstrate adequate scientific oral communication skills. The student is advised to schedule no less than two hours for completion of the public seminar and closed-door oral examination. The outcome of the examination is either a passing or a failing grade. In the case of a failing grade, the student may retake the MS thesis defense once more by the end of the following term.

6. Candidacy Evaluation

First Year Progress

The student's progress toward PhD candidacy will be evaluated at the beginning of the Fall term following completion of the first academic year. The factors considered in this first evaluation process are grades of coursework to date, Research 1 grade, and Research 2 grade. Based on this evaluation, the graduate academic committee will make a recommendation in regard to the continued PhD candidacy of the student, with the following possible outcomes: Satisfactory, Probationary, or Terminal MS. Satisfactory allows the student to continue their candidacy and plan of study. Probationary status allows continued candidacy subject to meeting additional requirements put forth by the graduate academic committee to address shortcomings in the student's academic or/and research record. In the case of the coursework requirements, a core GPA below 3.0 or 2 grades below B- will result in Probationary status. Three core grades below B- will result in a Terminal MS status recommendation. A terminal MS status results in termination of the PhD candidacy. The graduate academic committee will meet quarterly to review students on Probation.

Candidacy Exam

The oral candidacy exam is based on original research performed by the student. A written report should be submitted to the exam committee and the Associate Head for Graduate Studies at least one week prior to the exam, which consist of a public seminar followed by an oral exam conducted by a faculty committee. The time, date, and location of the talk should be announced by the student by e-mail and by posting a notice in the Department's Main Office one week before the exam. The written report will be comparable to a term research project report and will be limited to 10 to 20 pages including tables, charts, and bibliography. Appendices, including detailed derivations, technical details, data and computer codes, will be available separately upon request. The subject matter will be at the discretion of the student with approval of a supervisor. The written report will include three aspects: review of the problem area; formulation and solution of a small problem; suggestions for further research. The oral examination by 5 faculty will follow the public seminar. This exam will last about one hour and will include material related to the research report. The purpose of the oral exam is to clarify material in the research report and to

insure adequate scientific oral communication skills. The student is advised to schedule no less than two hours for completion of the public seminar and closed-door oral examination.

The student will take this exam after successful completion of at least one year of graduate work at Drexel and prior to the end of the spring quarter of the second year of doctoral study (post-masters students will do so in their first year). The purposes of the candidacy exam are to determine the student's ability to begin thesis-level research; to ascertain his or her understanding of the fundamental concepts and ideas pertinent to the field of endeavor; and to detect any deficiencies of background that may need further attention. The committee must consist of no less than five members, at least three of whom must be currently tenured or tenure-track Drexel faculty members. A minimum of two of the committee members must be from outside the student's primary specialization area. At least one of the committee members must be from outside the student's department, preferably from outside the university. Upon completion of the exam, the committee chair will complete the Doctoral Candidacy Examination Report in the EForms system and will enter the result. All members of the committee shall enter comments. The outcome of the examination is either a passing or a failing grade. Only if it is deemed appropriate by the Associate Department Head of Graduate Studies may the exam be attempted a second time (which may be no later than the Summer of the second year).

7. PhD Dissertation Proposal

- a. Before the end of the Fall Quarter of the third year of graduate study, a post-qualified student must present a thesis proposal to a Dissertation Committee, comprised of their supervisor and four other faculty members, including at least two members from outside the student's research specialty and one external to the department (following rules set by Graduate College).
- b. The dissertation proposal will include both a written proposal and an oral presentation; the written proposal must be given to the dissertation committee at least one week before the oral presentation.
- c. Prior to the proposal defense, the doctoral candidate should review the Dissertation Committee membership in the EForms system. If it is correct, the student will need to enter the proposal title, date, time, and location in the EForms system.
- d. The written proposal should be 15 pages in length or longer, including figures and references. Required sections of the proposal are as follows.
 - i) Introduction: Motivation for the proposed research
 - ii) Literature review
 - iii) Statement of the project
 - iv) Methods of attack: Theoretical background, experimental setup, and/or computational methods
 - v) Preliminary results and discussion (Possible outcomes and their significance, next steps)

- vi) Timeline and Milestones: A plan to complete the thesis within 5 years after matriculation, including measurable milestones such as paper submissions. Changes to this timeline (including extensions of the timeline beyond the fifth year) should be discussed and revised in writing with approval of the Dissertation Committee.
- e. The oral presentation should be about 30 minutes, followed by questions from the committee.
- f. After closed-door discussion, the committee decides whether the dissertation proposal and presentation are satisfactory or not and a pass/fail grade will be given.
- g. The committee can also make suggestions to the proposal and suggest improvements to the written report or the oral presentation.
- h. Upon completion of the proposal defense, the committee chair shall enter the committee's decision. The chair may enter a summary of the recommendations and ask each member to enter their comments/feedback in the EForms system.
- i. For students who fail the dissertation proposal for the first time, they must pass the thesis proposal presentation by the end of the following quarter to continue in the PhD program.

8. PhD Annual Reviews and Dissertation Committee Meetings

In the third year, the student will present a dissertation proposal to their Dissertation Committee as described above.

In subsequent years, the student will present their dissertation progress on an annual basis to their Dissertation Committee. Composition of the committee is specified by Graduate College policy, as detailed above (7.a). The student is advised to schedule one and a half hours for each meeting.

The annual review will assist students in the timely completion of their degree by allowing appropriate diagnosis of deficiencies, clarification of expectations for research performance, and identification of opportunities for improvement. Committee feedback/comments should be documented in the EForms system. The deadline to complete this Annual Review is July 15th (deadline required by the Graduate College).

One week before the annual review meeting, students are required to submit the [Doctoral Candidate Annual Activities Report Form](#) to each member of their Dissertation Committee. This report shall contain a summary of professional activities and research progress during the year (the [Doctoral Candidate Annual Activities Report Form](#) is included at the end of this handbook).

The meeting will consist of a succinct presentation from the student, not to exceed 30 minutes, that briefly summarizes relevant background and previous progress and present research progress carried out during the last year. It is imperative to note that students are not to repeat material from the previous year except to use as background and to put the new research into context. Following the student's presentation, the student will step outside of the room and the Dissertation Committee will hold a closed-door discussion to assess progress and future direction

of the research. At the conclusion of the discussion, the Dissertation Committee will evaluate the progress following the rubric provided by the Graduate College and the department. Possible outcomes are that the student: (i) is allowed to continue research, (ii) is conditionally allowed to continue research (provided there is a semi-annual meeting), or (iii) is found not to have made satisfactory progress in their research project.

9. PhD Program Milestones

Year 1:

- Complete 6 core courses.
- Complete 3 credits of Research by the Spring and 2 topic courses.
- In the Spring, present a research poster and a two-page proposal for planned summer research.
- At the end of the Summer, prepare an in-depth written research report along with an oral presentation to a general audience.

Year 2:

- Complete remaining 2 core courses.
- Complete 12 Research credits and 2 topic courses.
- Continue research.
- Pass candidacy exam.

Year 3:

- Present a written dissertation proposal and an oral presentation which must be approved by the Dissertation Committee.
- Present research progress report to the Dissertation Committee (Annual Reviews in EForms) by the end of the Spring quarter every year and not later than July 15th. Submit the [Doctoral Candidate Annual Activities Report Form](#) to all committee members at least a week before the annual review meeting.

Year 4+:

- Present research progress report to the Dissertation Committee (Annual Reviews in EForms) between the end of the Spring quarter every year and not later than July 15th. Submit the [Doctoral Candidate Annual Activities Report Form](#) to all committee members at least a week before the annual review meeting.
- Complete thesis research.
- Write and defend thesis.

10. Dissertation Defense

This examination constitutes an open defense of the dissertation. The student should check that the Dissertation Committee in the EForms system is up to date. This form must be completed at least one month prior to the defense. The Committee must consist of at least five members, three or more of whom must be currently tenured or tenure-track Drexel faculty members. Two members at minimum must be from outside the student's major area and at least one member from outside the student's department, preferably from outside the university.

The Candidate is reminded that a printed copy of the final dissertation must be distributed to all Committee members and the Associate Department Head of Graduate Studies at least two weeks before the scheduled exam to allow sufficient time for a thorough review and analysis. The title, abstract, time, date, and location of the oral defense announcement should be distributed by the student by email and by posting a notice in the Department's Main Office one week before the exam.

Results of the defense are reported to the Department and the Graduate College by the Committee Chair via the EForms system. All committee members must agree with the recommendation. This step should be completed by the Committee Chair within 48 hours of the exam. Students and the Committee Chair should follow the guidelines for thesis submission and further approvals as instructed in the Graduate College [EForms Guide](#). The Committee Chair is responsible for making sure all signatures are obtained. This form will be submitted for binding with the thesis. In the case of a disagreement within the Committee, the Chair should consult with the Dean of the Graduate College. After following the steps detailed in the checklist below, and in order to be cleared for graduate, the signed [Graduate Program Completion Form](#) must be submitted to the Graduate College.

Dissertation Format

All doctoral dissertations, in addition to originality and scholarly content, must conform to University [format and submission requirements](#). The doctoral student and supervising professor are responsible for conforming to the university format requirements.

PhD Students Graduation Checklist:

- File an application for degree via DrexelOne by the appropriate deadline for the term in which you intend to graduate.
- The following steps must be completed in the EForms system:
 - Verify that your Dissertation Committee is correct. If it needs to be updated, please go to the Dissertation Committee tab, and select Update.

- A month in advance of your final Oral Defense, enter your Dissertation information, and select Defense Notification. Notifications will then be sent to the entire committee.
 - Upon completion of your Dissertation Defense, all Committee members must agree with the chair's recommendation. Once the decisions of all Committee members are in the form, click Request Approvals.
 - When you have the final version of your thesis, select the Submit Thesis tab, enter the title and date, click Save and Notification. Each committee member, including the chair, will receive a notification.
 - After receiving the final approval from all committee members use the Export to PDF button to create your Dissertation Title Page. Using this page as the very first page of your thesis, merge it with your dissertation and upload your thesis to [ProQuest](#).
 - Upload the ProQuest receipt in the Supporting Documents' tab.
 - In the Submit Thesis tab select Yes in the ProQuest receipt field and click Save.
 - Complete the [Survey of Earned Doctorates](#) and the [Drexel PhD/Doctoral Exit Survey](#), and upload confirmation of the surveys' completion in the "Supporting Documents" tab.
 - Once all steps have been completed, click Request Approvals (Student, Supervisor, DGS, and Graduate College).
- Fill out the PDF [Completion Form](#) and have it signed by the appropriate people (this final step is not included in the EForms system). IMPORTANT: This form must be submitted to the Graduate College by the [posted deadline](#). Please copy Dr. Urbanc and Laura D'Angelo if you submit this form directly to the Graduate College.

****THIS REPORT MUST BE SUBMITTED WITH ADVISOR'S COMMENTS AND SIGNATURE AT LEAST ONE WEEK BEFORE THE ANNUAL REVIEW MEETING. ANNUAL REVIEWS MUST BE COMPLETED BY JULY 15.****

DOCTORAL CANDIDATE ANNUAL ACTIVITIES REPORT FORM

Name:

Entry Year in the Program:

Research:

- **If you are a Third-Year Student**

When did you submit your written thesis proposal? (Date):

When did you make your oral presentation to your Committee (Date):

- **Thesis Advisor:**

- **Title of project:**

- **Dissertation Advisory Committee:**

Chair:

Member (1):

Member (2):

Member (3):

Member (4):

- **Date of your last formal meeting with four or more members of your committee?**

- **Outcome of the meeting: (satisfactory/semiannual review/non-satisfactory):**

- **Status of your current research and goals:**

Describe what you have accomplished in your thesis research during the previous academic year. You may give bullet points with supporting detail. Lack of detail in this section will be interpreted as lack of progress.

Describe your research goals for the coming academic year. Lack of detail in this section will be interpreted as lack of planning:

- **Publications.** List articles/chapters published or in press. Be sure to note status (i.e., submitted, working on revisions, accepted, published) and type (peer-reviewed article, non-reviewed article, paper in conference proceedings, etc.).

- **Conference Activities.** List all conference activities. Please specify, for each, whether it is a paper presentation, presentation w/o paper, workshop, poster session, etc. and whether it was presented already, accepted for presentation, or submitted for presentation. Include date, title of paper/presentation, name of conference, and location of conference.

- **List other research and other scholarly activities that do not fit into the categories listed above** (e.g., manuscripts in progress, colloquia on your research, graduate student research, etc.)
- **Were you supported at any time as a RF?** If so, give the advisor's name and during which quarters you were/are supported. If you know the source of this support, please describe.
- **Please describe any grants or fellowships for which you applied.** Indicate the funding agency, amount of grant, and whether you received the award.
- **List any honors that you received** (not grants).
- **When do you expect to complete and defend your dissertation?** (You must estimate a Month/Year.)

Teaching

- For which courses have you been a TF this year? Include term/course/component (e.g. Fall: PHYS 123 Recitation) and any comments you would like to add.
- End of Term Course Evaluations: Please comment on the results on each course and what you have done to address any issues. If similar comments repeated on more than one term/course, develop an improvement plan.

Outreach

List all outreach activities in which you have participated.

E-Signature:

Date:

ADVISOR'S COMMENTS

Please comment on the student's progress. Satisfactory progress is required for renewal of graduate appointments.

Does the student have realistic objectives and timetable for completing the degree?

Please provide specific comments on the progress the student has made during the past year.

If the student is not making adequate progress, please explain why.

E-Signature:

Date: