

Intercollege Graduate Degree Program in Ecology



Handbook

2010/2011

The Pennsylvania State University

<http://www.huck.psu.edu/education/ecology>

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SECTION I

GENERAL POLICIES

A. **Mission Statement:**

The mission of the Intercollege Graduate Degree Program in Ecology is to educate and train scientists with respect to both basic and applied aspects of ecology. Research and teaching in the program focus primarily on interactions between organisms and their environments, ranging from the molecular to the biosphere level.

B. **Ecology as an Intercollege Program**

An intercollege program is characterized principally by the fact that the faculty participating in the program reside in several departments and colleges, and that the students in the program draw significantly upon the resources of several departments – their courses, faculties and facilities. For each intercollege program, a Program Chair is appointed by the Dean of the Graduate School with the concurrence of the appropriate deans and departmental heads/directors.

The Ecology Program is part of the Huck Institutes of the Life Sciences which is dedicated to encouraging new perspectives across disciplinary boundaries. The Huck Institutes catalyze innovation and excellence in interdisciplinary research and education in the life sciences at Penn State.

Each program is the responsibility of the participating departments and an intercollege graduate faculty with academic background, interest and demonstrated scholarship in areas pertaining to the program. In matters concerning the Intercollege Graduate Degree Program, the Chair reports to the Dean of the Graduate School.

C. **Responsibilities of the Student, Thesis Advisor and Student's Committee**

Students are expected to assume responsibility for knowing the regulations and requirements of the Graduate School and the Ecology Program as described in:

- (1) Graduate Degree Programs <http://bulletins.psu.edu/bulletins/whitebook/>
- (2) Thesis Guide http://www.etsd.psu.edu/thesis/thesis_guide.html
- (3) Checklist of Graduate School Requirements for Ph.D. Candidates
- (4) Ecology Program Requirements
<http://www.huck.psu.edu/education/ecology/degree-requirements>

Thesis advisors and graduate committees have a responsibility for judicious timing of events to avoid prolonging degree programs. For example, in the initial months of residence, students may become preoccupied with course work. At this time, a student should also be outlining the entire program, choosing a thesis topic, and drawing up research plans. Delays may result in time added to programs or under-

accomplishment of thesis research. The leadership efforts of thesis advisors and committee members are needed to forestall such delays.

SECTION II

STUDENT-FACULTY RELATIONSHIPS AND GRADUATE STUDENT COMMITTEE

Office and research space, course work and research plans will be arranged through the student's advisor and cooperating department. A graduate committee should be appointed early enough in the student's tenure to be involved in the course and research planning. Informal meetings of the student with individual committee members and with the committee as a group are encouraged as a means of aiding the student in thesis research and of keeping the faculty aware of the student's progress. At least one meeting per year is strongly recommended.

The student must inform the Ecology Program office about the composition of the student's graduate committee as soon as it is established. This holds for both Master's and Ph.D. students.

- A. **Doctoral committee:** The doctoral committee is chosen by the student with guidance from an advisor. A committee consists of at least 4 faculty approved by the Graduate School:
- a Chair (typically the advisor)
 - one or more additional members of Ecology faculty
<http://www.huck.psu.edu/education/ecology/faculty-and-research>
 - an outside member. This person may or may not be a member of the Ecology faculty but must not be co-funded from the same department as the dissertation advisor, or have budgetary ties (e.g. be a co-Principal Investigator on a grant) or a conflict of interest with the chair (or co-chair) of the committee. Please contact the Program Office for advice on checking budgetary connections.
 - at least half of the members must be from the Ecology Program
- B. **Master's committee:** The Master's student is not required to report their committee to the Graduate School. Instead, the committee is reported to the Ecology Program office on [the academic course plan](http://www.huck.psu.edu/education/ecology/degree-requirements/ecology-graduate-academic-course-plan.pdf). (<http://www.huck.psu.edu/education/ecology/degree-requirements/ecology-graduate-academic-course-plan.pdf>)

The committee is chosen by the student with guidance from an advisor. The graduate student's committee is responsible for approving a student's program and promoting communication between the graduate student, the committee chair (or advisor), and the members of the committee, and more generally, for helping to ensure successful completion of a student's program.

A Master's committee consists of a Chair (typically the advisor), and two other faculty members. At least two members must be from the Ecology Program faculty and as many as three may be members of the program. The student should arrange to have the Master's committee meet at least once per year, to receive guidance, finalize and approve the research proposal, assess the quality and progress of the research, discuss programmatic issues and course requirements.

SECTION III

DEGREE REQUIREMENTS

A. Course Requirements and SARI

1a) All Ph.D. and Master's students need to successfully complete the following 2 courses:

- Advances in Ecology (ECLGY 597B) (soon to be ECLGY 515)*
- Classical Ecology (ECLGY 510) (previously 597A)

*** Advances in Ecology must be taken during the first fall semester of enrollment in order to fulfill the SARI instructional module.**

1b) All Ph.D. and Master's students need to successfully complete the online component of the SARI (Scholastic and Research Integrity) course during their first semester of study.

First year students should register for the online CITI (Collaborative Institutional Training Initiative) RCR (Responsible Conduct of Research) course as soon as possible in the Fall semester. To register, go to the Penn State SARI website, Online Training Program page (<http://www.research.psu.edu/training/sari/program>) where you will find instructions and a link for the CITI Program website (<http://www.citiprogram.org>). Choose Pennsylvania State University as the participating institution and register for the CITI **Biomedical Sciences** course.

Students must work on their own to complete the course modules and pass the on-line quizzes. The test takes approximately **10 hours** to complete and can be taken in advance of or simultaneously with ECLGY 597B. All modules must be completed by the end of the first semester, and a copy of the student's Completion Report must be submitted to the ECLGY 597B instructor and program administrative office by the last day of classes of the Fall semester.

2) All Ph.D. and Master's students need a total of 6 credits from at least 2 courses, from 2 of the following 3 categories:

Physiological Ecology

- Physiological Ecology (BIOL 544)
- Symbiosis (BIOL 406)
- Plant Ecology (HORT 445)(fall)
- Ecology of Plant Roots (HORT 517)(fall, even years)

Population Ecology

- Introduction to Population Dynamics (ENT 420)
- Population Ecology (BIOL 546)
- Wildlife Biometrics and Population Analysis (WFS 551)
- Ecological and Environmental Problem Solving (BIOL 519)

Community/Ecosystem Ecology

- Forest Ecology (FOR 508)
- Forest Geography (GEOG 411W)
- Wetland Ecology (W F S 550)
- Ecosystem Nutrient Cycles (SOILS 597a; fall semester, odd years)
- Soil Ecology (SOILS 412W; fall semester)
- Ecology of Agricultural Systems (AGRO 510; spring semester, even years)
- Limnology (ERM/WFS 435)

In addition to the above courses, the Master's student is required to take one advanced **statistics** course, and two credits of **Colloquium**. Ph.D. students are required to take two advanced **statistics** courses (unless these have been taken elsewhere) and four credits of **Colloquium**. All students are required to present a seminar at the Ecology Graduate Mini-Symposium before graduation.

Other Ecology related courses that students have found helpful can be found on the Ecology website at: <http://www.huck.psu.edu/education/ecology/degree-requirements/courses>

All graduate students are required to be registered for **9 credits** per semester to be considered full-time. It is not recommended to register for more than 12 credits per semester.

B. Graduate Academic Course Plan

Each Ph.D. and Master's graduate student in consultation with his or her research advisor and their committee must submit a graduate Academic Course Plan to the Program Office. This is available as a pdf file at:

<http://www.huck.psu.edu/education/ecology/degree-requirements/ecology-graduate-academic-course-plan.pdf/view>

C. Examinations

1. Both Master's and Ph.D. Students

Each student must pass a final oral **thesis** (or paper; Master's only) **defense** before degree certification. The final oral examination for the Ph.D. student must be scheduled by the Program office with the Graduate School at least two weeks in advance of the exam date.

The Master's student's advisor must inform the Program Office in writing about the outcome of the final oral thesis (or paper) defense. The Ph.D. student's advisor must inform the Graduate School and the Program Office about the outcome of the final oral thesis defense using the form provided by the Graduate School (available from the Program Office).

2. **Ph.D. Students only**

- a) A **candidacy examination** is required of all Ph.D. students. (For details see "Guidelines for Doctoral Candidacy Examinations," p. 15 of this handbook). The examining committee is appointed by the Program Chair. The Candidacy Exam consists of both a written and an oral component. The Chair of the Candidacy Committee must inform the Program Office in writing about the outcome of the Candidacy Exam. The outcome of the Candidacy Exam is sent by the Program Office to the Graduate School.

It is the responsibility of the graduate student to contact the Chair of the Candidacy Examination Committee to schedule his/her exam. The exam should be taken in the second or third semester of the Ph.D. program.

A student wishing to take the exam in a given semester should contact the chair of the Candidacy Examination Committee within the first three weeks of that semester and supply the Chair via mail or e-mail the following information: name, advisor's name, campus address, telephone number, e-mail address, date of entry into the program and a copy of the semester course schedule.

- b) The **Comprehensive Examination** for the Ph.D. will be a rigorous written and oral examination administered by the student's committee as early as possible in the student's tenure but after the Candidacy exam. The comprehensive should cover aspects of advanced ecology and related disciplines necessary to the student's field of specialization. The Comprehensive Examination must be scheduled by the Program Office with the Graduate School at least two weeks in advance of the exam date.

D. English Competency Policy for Ph.D. Students

Ph.D. students are required to demonstrate a high level of competence in the use of the English language. Written and speaking competence in English will be assessed by the Candidacy Examination Committee at the Ph.D. Candidacy Exam.

E. Statistics Requirement

1. For the Master's student, at least one advanced course (400 – 500-level) or an equivalent course from a previous institution beyond an introductory statistics course (e.g. STAT 451 is not appropriate).

2. For the Ph.D. student, at least two advanced courses (400-500-level) or equivalent courses from a previous institution beyond an introductory statistics course (e.g. STAT 451 is not appropriate).

F. Colloquium Requirement

Two credits for a Master's student and four credits for a Ph.D. student are required in Ecology Colloquium (ECLGY 590). Ecology 590 is a 1-credit seminar class intended to provide Ecology graduate students with an opportunity to present their research to their peers. All presentations need to have some type of ecological context. Goals of the class are: (1) to provide practice and feedback for communicating research in a scientific forum and (2) allow constructive feedback on research ideas and results. Despite these minimum requirements, regular participation is expected regardless of official registration. Communication with colleagues is an essential part of the scientific process. Presentations at national meetings may fulfill a certain number of Colloquium credits.

G. Seminar and Mini-symposium Requirements

Each student will be required to present a formal **Ecology seminar** on his/her research before degree certification. This seminar must be given *before* the student takes the final oral examination. The seminar is open to the public and often is the final talk of the Colloquium experience, but may be a separate 30-40 minute talk. In addition, a short talk should be arranged with the Program Office as part of the **Mini-Symposium**. It is the student's responsibility to notify the Program Office prior to the Fall or Spring Mini-Symposium, to be included in the program.

H. Teaching Experience

The purpose of this requirement is to provide the student a meaningful teaching experience and to develop teaching techniques.

1. *Setting up the supervised teaching experience:* Discuss the teaching requirement ahead of time with the advisor and consider which course is appropriate to obtain this experience. Students should be familiar with course subject material, and the course instructor must be willing to supervise the teaching experience. Contact the course instructor ahead of time and discuss the expectations and activities which will provide a meaningful teaching experience. Register for ECLGY 602 during the semester of the supervised teaching experience. 1 credit of supervised teaching is required in a PhD program, but depending on involvement, up to 3 credits may be registered.
2. *Can this requirement be met through regular TA assignments?* If the teaching experience is part of the teaching assistantship assignment, request assignment to the course where supervised teaching is to be conducted.
3. *Guidelines:* Students should have direct teaching experience. This means involvement in several types of activities crucial to teaching. Examples include designing, setting

up, and/or running laboratory sessions, writing and presenting a couple of lectures, designing quizzes or questions for exams and grading them, leading discussion sessions, and helping develop modifications of the course. An assignment involving only the grading of tests, taking attendance, and cleaning labs is contrary to the purpose of this experience. An important aspect of a quality teaching experience is constructive feedback from the mentor(s). The responsibility for this rests with the supervisor (instructor for the course). The instructor can use student evaluations and/or his/her own evaluations and observations as sources of information. Ideally, the supervisor will provide suggestions on how to improve performance. Upon completion of the teaching experience, the instructor will assign a letter grade in ECLGY 602.

I. Thesis Research – Grade Reporting

Students can be assigned letter grades for thesis research (600 on campus, 610 off campus) credits for a total number of 6 credits for Master's and 12 credits for Doctoral candidates. Any research credits over this number must be assigned an R grade.

J. Thesis Preparation

Doctoral candidates can register for special non-credit thesis preparation work (601 full-time, 611 part-time); however, such candidates must have passed the comprehensive examination and must have met the two-semester residence requirement.

K. Registration near Completion of a Program

A Master's candidate is **not** required to register for the final semester in order to graduate or in order to make minor revisions to the thesis and/or to take a final examination for the degree.

A Ph.D. candidate is required to register continuously (spring/fall) for each semester from the time the comprehensive examination is passed and the two-semester residence requirement is met until the thesis is accepted by the doctoral committee, regardless of whether work is being done on the thesis during this interval. **A doctoral student must register for at least one credit if he/she plans to take the comprehensive or final exam during the summer semester.**

L. Non-Thesis Option

A non-thesis option is available to Master's students in consultation with their advisor. The student writes a paper, which is approved by their advisor (instead of a Master's committee) which is usually shorter in length than a research Masters and often a review of literature on some relevant topic. This option results in a Master's Paper in Ecology. The Program Office needs to be notified of this option so it may be lodged with the Graduate School.

M. Thesis Copy Requirements

Master's and Ph.D. students must submit a properly formatted electronic copy of the thesis to the Graduate School by the deadlines for the semester in which they intend to graduate (see pg. 20/21 of this handbook for more details). In addition, an electronic copy of the thesis (or paper) must be submitted to the Ecology Program Office where it will be kept on file after the student has received the degree. The Ecology Program no longer requires a **hard-bound copy of the thesis (or paper) but the student's major advisor may wish to receive a bound copy. Therefore, the student should check with the advisor when ordering hard-bound copies.**

N. Exit Survey

All Ecology Program students are required by the Program to complete an exit survey before leaving Penn State, and to schedule a short interview with the Program Chair. The exit survey form is available from the Program Office.

O. Resume Study/Change of Graduate Degree or Major

Master's students in Ecology who are interested in continuing on for a Ph.D. in Ecology must submit an application for permission to resume graduate study. A form to resume graduate study is available from the Program Office or from the Graduate School's website: <http://www.gradsch.psu.edu/facstaff/forms/ges.html>

This same form is used by Ph.D. students who need to change their degree to M.S. Approval by the Program Chair and major advisor is required before making this change.

Students interested in changing their degree or major to Ecology must submit an application form, available from the Program Office or Graduate School's website.

P. Minor in Ecology

A Master's or Ph.D. student in another degree program may elect a minor in Ecology. Six credits are required for a Master's minor and 15 credits for a Ph.D. minor in Ecology. An application form is available from the Program Office to notify the Graduate School of a student's intent to declare a minor. Prior to week 12 of the student's semester of graduation, the Program Office must notify the Graduate School that minor requirements have been met.

APPLICATION PROCEDURES AND ADMISSION CRITERIA

A. Application Procedures

A pre-application form can be found on the Ecology Program website at:
<http://www.huck.psu.edu/education/ecology/preapplication>

Complete the **online Penn State Graduate School application form** at <http://gradsch.psu.edu/portal/> (you may want to open this link in a new window). Please select the campus where courses and faculty are likely to be of most interest to you.

Make sure you pay the **application fee**. **Applications without fee payment cannot be processed**. You can pay the fee online by credit card (follow the instructions associated with the online Graduate School application form). If you are unable to pay online, see the instructions on [the Application Fee Payment Form](http://forms.gradsch.psu.edu/ges/appfee.html) (<http://forms.gradsch.psu.edu/ges/appfee.html>) about how to send payment by check or money order.

B. Selection of Students

Students will be selected by an Admissions Committee on the basis of overall promise for graduate work.

Requirements for admission shall be:

- (1) A minimum undergraduate grade point average of 3.0 for combined junior and senior years.
- (2) A strong background in at least two of the following areas: Quantitative Science, Physical Science, Life Science, Earth Science, Behavioral Science.
- (3) Satisfactory Graduate Record Examination scores. The Advanced Biology Test is optional. GRE scores on the verbal and quantitative sections should average in the upper 50 percentile.
- (4) At least three letters of recommendation.
- (5) A statement of educational and career goals.
- (6) **English Proficiency**--The language of instruction at Penn State is English. International applicants must take and submit scores for the TOEFL (Test of English as a Foreign Language) or the IELTS (International English Language Testing System). The minimum acceptable score for the TOEFL is 550 for the paper-based test, 213 for the computer-based test, or a total score of 80 with a 20 on the speaking section for the internet-based test. The minimum composite score for the IELTS is 6.5.
- (7) A commitment from an Ecology faculty member to be the student's advisor is required for admission.

C. Undergraduate Deficiencies

Candidates should have a strong background in basic science and mathematics, including chemistry through organic chemistry, mathematics through calculus, physics, and biology. However, some deficiencies can be addressed in the student's program of study.

EXPECTATIONS AND MILESTONES

Expectations of Master's candidates

- Motivation, curiosity and enthusiasm for science
- General understanding of science in area of concentration including methods and techniques, philosophy and state of knowledge
- Be able to use basic statistics, sampling and experimental design
- Be able to communicate well in either written or oral forms

Suggested Milestones for Master's (should be discussed with advisor)

- Course work plan – 1st semester
- Research plan – 2nd semester, present in Colloquium
- Maintain steady progress on research. Try to reach milestones for remaining year.
- Leave at least 1 full semester for data analysis and writing
- Plan to submit at least one paper for publication at the time of graduation with a second close to submission.

Expectations for Ph.D. candidates

- Motivated to become a professional scientist
- Broad knowledge of philosophy, history and present state of knowledge in discipline
- Have a broad understanding of ecological techniques, especially in specialty but basic understanding of 'standard' techniques as well
- Expert in specialty. Student may know more than advisor in specific area of dissertation.
- Must have well-developed ability to think clearly, critically and creatively

Suggested Milestones for a Ph.D. candidate (should be discussed with advisor)

- Coursework plan developed by end of first semester
- Research proposal by end of second semester. If appropriate, submit proposal for funding
- Candidacy exam taken in 2nd or 3rd semester
- Comprehensive exam taken in 4th or 5th semester
- Maintain steady progress on research
- Submission of one paper for publication before graduation with at least two more near time of graduation. Often a review paper can be submitted as well. If the opportunity presents itself, should try to have at least one co-authored paper.

Expectations of graduate advisor

- Be interested in student's education, welfare, areas of interest and abilities
- Challenge student to achieve but be perceptive to obstacles and handicaps
- Provide broader perspective of science including publishing, grantsmanship, interacting with colleagues, teaching and manuscript review.
- Provide financial support to the extent possible including funds for stipend, tuition, research and travel to meetings and workshops

GUIDELINES FOR DOCTORAL CANDIDACY EXAMINATIONS

University Guidelines: (excerpts)

The candidacy examination is administered by the Graduate Faculty in the major program and should be taken early in the student's program. For the Ph.D. student the examination may be given after at least 18 credits have been earned in the graduate courses beyond the baccalaureate. The examination must be taken within three semesters of entry into the doctoral program. The student must be registered as a full or part-time degree student for the semester in which the candidacy examination is taken.

Ecology Guidelines:

Goals. The candidacy examination is given to evaluate the student's general level of knowledge to evaluate the intellectual capability for the study of ecology at the doctoral level, and to identify weaknesses in the student's preparation. The examination also will evaluate the student's abilities in problem solving, such as experimental design and interpretation of experimental results. Subject areas to be covered include, but are not restricted to, the contents of basic textbooks in biology, ecology and statistics.

Candidacy Committee. The Program Chair will appoint a four-member Candidacy Committee to administer the examination. The Candidacy Committee will develop written questions covering the general content specified above. An examinee's advisor shall not participate in the administration of the oral examination or the marking of written examinations. However, before a final decision is made regarding candidacy, the advisor will have an opportunity to give input to the Committee.

Examination. The examination will occur in two parts, a written and an oral. The written examination will consist of questions in general biology (e.g. anatomy, physiology, evolution, botany, zoology, microbiology), general ecology, basic statistics, and questions that require some synthesis (e.g. experimental design, explanation of experimental results). This examination will require 3-4 hours of writing time on 6-8 questions. (A laptop computer is recommended.)

The written portion of the examination will be read and graded by the Candidacy Committee. Each student will then be given the oral portion of the examination. The student's responses on the written portion of the examination may serve as the basis for initial oral questioning.

Schedule. Candidacy examinations will be scheduled twice each year. In the fall semester, the written portion of the exam will be scheduled for the last week of October and the oral portion for the second week of November. In the spring semester, the written portion of the exam for the third week of March and the oral portion for the first week of April.

For students entering with a master's degree, the examination will be conducted within the student's first calendar year of study. For students entering with only a baccalaureate degree, the examination will be conducted during the second year of study.

Results. The Committee will assign grades based on majority opinion (3 of 4 members) using both the written and oral examination results. Grades will be pass, unsatisfactory, or fail. A student who receives a grade of unsatisfactory will be offered an opportunity to retake the candidacy examination at the next scheduled examination time. For the second examination, only grades of pass or fail will be given. Failure results in the student not being permitted to continue in the Ph.D. program. Typically the student will get a M.S. degree or a Masters in Ecology. Students receiving a passing grade will be advanced to candidacy.

The examining committee may recommend to the student's advisory committee specific courses or readings based on evidence of weaknesses in the student's preparation. The student's advisory committee will have responsibility for determining the program of study and the content of the comprehensive examination.

CHECKLIST OF REQUIREMENTS FOR MASTER'S STUDENTS

Graduate School Guidelines for Master's students can be found at the following link:
http://bulletins.psu.edu/bulletins/whitebook/degree_requirements.cfm?section=masters.

In summary, in order to graduate, Master's students are required to:

- have at least 30 credits
- have 18 credits at the 500 & 600 level
- have 12 credits in courses in the major (not counting 600/610 courses)
- have no missing or deferred grades
- have at least 6 thesis credits (600 or 610)
- have no more than 6 thesis credits with a letter grade
- submit an electronic copy of the thesis to the Program Office and a hard-bound copy to the advisor, if required by the advisor. (These copies are in addition to the electronic submission required by the Grad School;
<http://www.gradsch.psu.edu/current/thesis.html>)

CHECKLIST OF GRADUATE SCHOOL REQUIREMENTS FOR PH.D. CANDIDATES

Following is a summary of Graduate School requirements that Ph.D. students must meet before the Office of Graduate Programs may approve their graduation. Please use this as a guide for advising your students. For more detailed information on these and other requirements, please refer to the Graduate Degree Programs Bulletin (<http://bulletins.psu.edu/bulletins/whitebook/index.cfm>).

- **Residence requirement.** Over some twelve-month period during the interval between admission to the Ph.D. program and completion of the Ph.D. program, the candidate must spend at least two semesters (summer sessions are not included) as a registered full-time student engaged in academic work at the University Park campus. Students should note that 601 cannot be used to meet the full-time residence requirement.
- A candidate for the Ph.D. must have satisfied the departmental communication and foreign language requirement (if applicable) before taking the comprehensive examination.
- Three or more months must have elapsed between the passing of the comprehensive examination and the scheduling of the final oral examination.
- The final oral examination must be held within six years of the date the comprehensive examination was passed. If more than six years have passed, a second comprehensive examination must be given before scheduling the final oral examination.
- **Continuous registration requirement.** Students must be registered continuously each semester (excluding summers) beginning with the semester following the passing of the comprehensive examination and continuing each semester until the final oral examination is passed.
- **Time limitation.** All requirements including submission of the thesis must be completed within eight years of the candidacy date.
- Students **MUST** be registered the semester of both the oral comprehensive examination and the final oral examination – even if taken during the summer session.
- No missing or deferred grades can appear on a student's transcript when the oral comprehensive examination or the final oral examination is scheduled.
- Students must have at least a 3.0 grade point average to schedule an oral comprehensive examination or final oral examination and to graduate.
- Doctoral candidates can be assigned letter grades for thesis research (600 on campus, 610 off campus) for a total number of 12 credits. Any credits over this maximum must be assigned as/changed to 'R' before a student will be permitted to graduate.
- Students cannot register for thesis preparation (601/611) until candidates have passed the comprehensive examination and have met the two-semester residence requirement.

THESE ARE GRADUATE SCHOOL REQUIREMENTS ONLY AND DO NOT INCLUDE SPECIFIC PROGRAM/DEPARTMENT REQUIREMENTS

How to Submit a Master's Thesis

- (1) Become familiar with the thesis format requirements by reading the Thesis Guide carefully (<http://www.gradsch.psu.edu/current/thesis.html>)
- (2) Activate the intent to graduate on eLion during the semester in which you plan to graduate. For deadlines go to <http://www.gradsch.psu.edu/current/thesis.html>.
- (3) Upload a draft of your thesis for format review to the eTD Web site (<http://www.etsd.psu.edu/>) by the format review deadline. Corrections and detailed instructions will be returned to you within two weeks.
- (4) Make any changes required by thesis advisor, other reviewers and the Thesis Office. Receive approval in the form of signatures on the Master's approval page.
- (5) Review the thesis one final time to be sure that no further changes are needed. It will not be possible to make corrections after final approval by the Thesis Office. Convert the file to a pdf and upload the final thesis to the eTD Web site by the deadline.
- (6) Submit master's approval page and fee (cash or a check payable to Penn State) to the Thesis Office (this may be done either before or after you upload your file).
- (7) Await verification of thesis approval by email. If further changes are required, you will be notified.
- (8) If bound copies are needed, contact the Multimedia & Print Center in Hostetter Business Services Building (814-865-7544) (<http://www.multimediaprint.psu.edu/>) or you may use an off-campus source. All copies are the author's responsibility. The Graduate School does not provide copies.

How to Submit a Doctoral Thesis

- (1) Become familiar with the thesis format requirements by reading the Thesis Guide carefully (<http://www.gradsch.psu.edu/current/thesis.html>)
- (2) Activate intent to graduate on eLion during the semester in which you plan to graduate. For deadlines, go to <http://www.gradsch.psu.edu/current/thesis.html>
- (3) Upload a draft of your dissertation for format review to the eTD Web site (<http://www.etsd.psu.edu/>) by the format review deadline. Corrections and detailed instructions will be returned to you by email within two weeks. (Note: the format review can be done either before or after the oral defense, as long as the deadline is met.)
- (4) Defend the thesis and make any changes required by the committee and the Thesis Office. Receive approval from the committee in the form of signatures on the Doctoral Thesis Approval Page.
- (5) Review the thesis one final time to be sure that no further changes are needed. It will not be possible to make corrections after final approval by the Thesis Office.
- (6) Upload the final thesis, as a pdf file to the eTD Web site by the deadline (<http://www.etsd.psu.edu/>).
- (7) Submit the supporting materials to the Thesis Office (This may be done before or after you upload your file). Supporting materials are: signed Doctoral Thesis Approval Page; ProQuest/UMI Agreement; Survey of Earned Doctorates; thesis fee (cash or check payable to Penn State). All forms can be found at <http://www.gradsch.psu.edu/current/thesis.html>.
- (8) Await verification of thesis approval by email. If changes are required, you will be notified.
- (9) eTDs will be available on the eTD Web site after graduation. If bound copies are needed, contact the Multimedia & Print Center in Hostetter Business Services Building (814-865-7544) (<http://www.multimediaprint.psu.edu/>) or you may use an off-campus source. All copies are the author's responsibility. The Graduate School does not provide copies.