PLANT PATHOLOGY
GRADUATE PROGRAM
M.S./Ph.D

HANDBOOK

The Ohio State University

Online (pdf):
plantpath.osu.edu/graduate/grad-handbooks

Autumn 2018
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Welcome to the Department of Plant Pathology. Graduate education is very important to our mission and a major focus of our department. We value the strong and positive interactions between students, faculty and staff. Although this handbook is a guide for your degree program, it is your advisor and others who will help you develop your program and answer questions that arise.

We recognize that each student has individual interests and strengths. Although there are specific graduate program requirements in the department, your individual program will reflect your specific objectives and goals.

Typically, students will have a major advisor assigned before starting the graduate program, although occasionally a student will need to select an advisor after enrolling. The selection of your major advisor is very important and should be done as early as possible. Your advisor will be a mentor and supervisor, and will be an important guide for you throughout your graduate program and career.

In addition to the Plant Pathology Graduate Student Handbook, you should retain a copy of the university's Graduate School Handbook: gradsch.osu.edu/handbook. The Graduate School Handbook "contains the rules, policies, and guidelines applicable to the graduate community at The Ohio State University." Additional rules and requirements are specified by the Department of Plant Pathology's Graduate Studies Committee (GSC).

There are periodic policy changes, so always refer to the current online version of the Graduate School Handbook: gradsch.osu.edu/handbook

Early in your program you should consult with your major advisor and establish a Student Advisory Committee (SAC). You, your major advisor and SAC should meet to determine the courses to be taken for your graduate degree. This list of courses should be put on Form I and placed in your file. It is important to discuss thesis or dissertation research with your SAC as early as possible. We hope the following guidelines will be helpful to you in development of your graduate program. Although some of the departmental policies given in this edition of the Handbook may change, you will be expected to fulfill the degree requirements that are in effect at the time you begin your graduate program. In the case of substantial revisions to program requirements, the Graduate School and/or the Department of Plant Pathology will clarify how this may impact your program requirements.
Graduate Student Code of Research and Scholarly Conduct

Source: Graduate School Handbook, Appendix C, Section C.1
Approved by the Council on Research and Graduate Studies, May 2004

Graduate students and Graduate Faculty aspire to professional behavior that is consistent with the highest ethical and moral standards. The Graduate School at The Ohio State University expects that graduate students will demonstrate responsibility and integrity in pursuing their creative and scholarly interests. The academic enterprise is dependent upon such behavior. Graduate students are responsible for learning about appropriate standards for ethical research and scholarly conduct and for following all university policies related to ethical research and scholarly conduct.

When graduate students join the Ohio State community, they become members of disciplinary, scholarly, and professional communities that extend beyond the university. Graduate students are expected to learn, respect, and abide by the professional codes of ethics and responsibilities that are commonly accepted in their field of study or area of research. These codes include but are not limited to the following: a responsibility to contribute an original body of work to one’s chosen discipline and the recognition that one’s work is based on the work of others which must be respected and properly acknowledged. Graduate students also have the responsibility to treat university faculty, staff, and other students respectfully and professionally.

Graduate Faculty, advisors, and graduate programs should actively encourage their students to participate as members of their chosen disciplinary, scholarly, and professional communities. Graduate students should be encouraged to seek and share knowledge wherever and whenever possible. Academic advisors and other faculty members should educate graduate students through example and discussion, addressing such issues as academic honesty, research, publication, recruitment, and hiring practices, and applicable fellowship and graduate associateship responsibilities. Disciplinary codes of ethics and norms should be discussed among graduate students and faculty. Such communication is a means of setting high standards of behavior in graduate study and beyond.

Graduate students are expected to be familiar with relevant policies and procedures at The Ohio State University. Detailed information may be found in the University's Code of Student Conduct is available online (studentlife.osu.edu/resources/). Graduate School staff may be contacted at (614) 292-6031 for additional assistance.
Academic Standards

Policies for academic standards are set by the Graduate School and the Department of Plant Pathology. The minimum Academic and Professional Standards established by the Graduate School are described in the Graduate School Handbook, Section 5

Good Standing 5.1
To be in good standing in the Graduate School, a student must maintain a graduate cumulative point-hour ratio (CPHR) of 3.0 or better in all graduate credit courses and must maintain reasonable progress toward Graduate School or graduate program requirements. A doctoral student who has had two unsatisfactory attempts at the candidacy examination or the final oral examination or professional doctoral examination is not in good standing.

Professional Standards 5.9
Graduate students are required to observe professional ethical standards in their graduate studies and research. Graduate students should talk with their advisors and their Graduate Studies Committee chair if they have questions about the specific expectations of the local graduate program. The Graduate Student Code of Research and Scholarly Conduct (Appendix C) describes the Graduate School’s general expectations for ethics and conduct in graduate research and scholarship. University processes exist to address allegations of research misconduct by graduate students. Graduate students have the responsibility to be aware of and to follow these standards.

Admissions

Admission to the Plant Pathology Graduate Program is administered by the department's GSC. In addition to the university online application, students must submit Graduate Record Examination (General Exam) scores, official transcripts of all college/university-level coursework, three letters of recommendation, a statement of intent describing personal background, research experience and professional interests, and a curriculum vita. Applicants whose native language is not English, must submit a recent, official Test of English as a Foreign Language (TOEFL) score, Michigan English Language Assessment Battery (MELAB) or IELTS score. Specific university requirements can be found on the Graduate Admissions website: gpadmissions.osu.edu/intl/english-proficiency.html.

A four-year baccalaureate or higher degree, or its equivalent, from an accredited college or university is required prior to beginning graduate studies. Applicants normally should have a cumulative grade point average of 3.0 or higher in all previous college coursework. The department desires, as a guideline, Graduate Record Exam (GRE) scores in the 60-61st percentile in the Verbal and Quantitative portions of the exam, and a score of 4.0 or greater on the analytical writing section. All available information is considered by members of the GSC for a decision regarding admission. Prior to final acceptance of the student, one or more members of the Graduate Faculty in the department must tentatively agree to advise the applicant. Agreeing to advise a student does not mean that financial support will be provided.
International students must provide evidence that they have sufficient financial support as a condition for admission. This requirement is administered by the Graduate and Professional Admissions Office. A Graduate Research Associateship offer can be used as evidence of financial support.

**Graduate Studies Committee (GSC) Responsibilities**

The GSC is responsible for the conduct and administration of graduate programs. General responsibilities are given in Section 14 of the Graduate School Handbook. The GSC of the Plant Pathology graduate program will:

1) Evaluate applicants and make decisions regarding admission to the graduate program;
2) Make decisions on the offering and renewal of departmental associateships (under the authority delegated by the departmental chair);
3) Approve student petitions to the Graduate School;
4) Oversee annual performance reviews of each graduate student;
5) Monitor standing and progress of each student; and
6) Nominate faculty for graduate faculty status (category M or P).

A graduate student or a faculty member may petition the GSC for a waiver of any of the graduate program requirements. A petition by a graduate student must be approved by the SAC prior to submission to the GSC.

The GSC consists of five voting members. Four members are department faculty elected by the graduate faculty of the department. One member is a senior graduate student in the department nominated by the students and elected by the faculty. The Chair and Associate Chair of the department are non-voting members of the GSC. Faculty members of the committee will be elected to four year terms. The graduate student member will be appointed for a one year term but may be reappointed for a second year. The student member will not participate in the review of current graduate students, renewal of associateships, matters relating to the academic performance of current students, or in nomination of faculty to the graduate faculty, but will be a voting member in regard to all other decisions made by the committee. In particular, the student member will participate in the review of all graduate program applications in Plant Pathology and will vote on admit/deny decisions. Approval to admit or offer financial support requires four out of five favorable votes.

**Part Time Students**

Students who wish to pursue a graduate degree on a part-time basis (i.e., students registered for 7 credit hours or less per semester prior to their Candidacy Exam) will be admitted only when there is evidence that the student can make timely progress toward the desired degree.
Graduate Student Funding

Funding for support of graduate students comes from various sources including department funds, OARDC Research Associateships, University fellowships/programs, extramural grants and contracts, foreign government scholarships/fellowships, or private foundations. The department and the graduate faculty do not have an obligation to provide financial support to every student who has been admitted to the graduate program. When funding is provided by grants or contacts, the student holding such an appointment will be selected by the faculty member, and continued support will depend on availability of funds and student performance (i.e., being in good standing, including making reasonable progress).

The department has two basic stipend rates for GRA appointments, an M.S. degree rate and a Ph.D. degree rate. In most cases, the rate of the stipend will be based on the current departmental rate for M.S. or Ph.D. students and must be approved by the GSC Chair. Graduate Associateships supported by departmental funds are awarded and annually renewed on the basis of merit by the GSC. These appointments generally are made annually for a one-year period. Their renewal is based in part on the student's progress as documented annual review of the student's progress. However, at the discretion of the GSC Chair and faculty advisor, funding may be awarded on a semester by semester basis in cases where a student is expected to complete their degree in less than one year. M.S. students who wish to pursue a Ph.D. in Plant Pathology should consult with their faculty advisor and the Graduate Studies Chair regarding graduate funding support (preferably a year in advance of projected completion of M.S.) as satisfactory completion of the M.S. degree will not assure that funds will be available for Ph.D. studies.

Except in unusual circumstances, students will not be supported by departmental funds beyond 7 semesters for completion of an M.S. degree, or beyond 13 semesters for completion of a Ph.D. degree (inclusive of the time to earn a Master's degree in this program). Renewal will also depend upon reasonable progress by the student as determined by the annual student evaluation, being in good standing, and the continued availability of department funds. Students who will not continue to be supported will be notified one semester in advance. The GSC may consult with faculty advisors regarding alternative sources of support (e.g., grants).

Students holding 50% FTE GRA appointments receive a full tuition and fee authorization as described in the Graduate School Handbook (Section 9). The Graduate School specifies the minimum registration requirements for Graduate Associateships:

- 8 credit hours during each semester a 50% or greater GA appointment is held, except during the summer session, when the minimum is four;
- 4 credit hours during each semester a 25% appointment is held, except during the summer session, when the minimum is two;
- For doctoral students who have passed the candidacy examination, 3 credit hours each semester a 50 percent GA appointment is held, including summer session. Students who were admitted to the Graduate School Autumn Quarter 2008 and after are required to be continuously enrolled after passing the candidacy examination (Section 7, Graduate School Handbook)

Students on fellowships: The credit requirement for full-time status is 12 hours in Autumn and Spring semesters (maximum 16), and 6 hours during Summer (maximum 8).
The Plant Pathology Graduate Program recommends that full-time M.S. and pre-candidacy Ph.D. students register for 16 credit hours in Autumn and Spring semesters.

Post-candidacy doctoral students, regardless of funding, must register for a maximum of 3 credits in Autumn, Spring and Summer. This will typically include 2 credits of Plant Pathology Research (PLNTPTH 8999) and 1 credit of Plant Pathology Seminar (PLNTPTH 8899) during the Autumn and Spring semesters; and 3 credits of PLNTPTH 8999 during the Summer term.

Registration for more than 3 credits post-candidacy requires prior approval by the faculty advisor and SAC, and notification (by e-mail) to the Plant Pathology GSC and Graduate Program Coordinator.

Benefits

Students holding 50% FTE GRA appointments receive a full fee authorization as described in the Graduate School Handbook (Section 9). Fee authorizations include Instructional and General fees and nonresident fees. Other fees, including parking and late penalties, must be paid by the student. GAs may be appointed at 25 percent time, averaging 10 hours per week; however, only one half of their fees will be authorized.

Annual leave (vacation) and sick leave benefits are not provided to students on GRA appointments. Nevertheless, it is expected that students on 12-month GRA appointments will need time off. Since students are expected to do research during semester breaks, time off must be scheduled with the major advisor to prevent any major disruption regarding the GRA duties or progress of the student’s graduate program.

Other benefits that are available to eligible graduate student employees are detailed on the Graduate School web site: gradsch.osu.edu/pursuing-your-degree/graduate-associates. This web site also includes information on student health insurance and health plan coverage for graduate associateships. The Student Health Insurance web site also has additional details and contact information: shi.osu.edu.

The department makes every effort to provide graduate students with transportation to national or regional meetings of the American Phytopathological Society (or another appropriate organization), when these meetings are within driving distance. In some cases faculty may be able to provide additional support for their students.

Responsibilities of Students on GRA Appointments

Students on GRAs will assist their faculty advisor in research and normally will be supervised by their advisor. When the GRA is supported by a faculty member's grants or contracts, the student will conduct research related to that grant as assigned by their advisor. On occasion, a student receiving financial support from the department may also be required to assist in teaching lab sections and preparing materials for courses. Each student's supervisor will assign duties either in writing or verbally.

Students on regular GRA appointments (50% Full Time Equivalent, or FTE) are required to provide up to 20 hours of service per week to the department. Students who hold a 25% FTE
GRA appointment have a work load of up to 10 hours of service per week. However, students are expected to put in hours well beyond these requirements in their coursework and research. Consistent with this, students on a regular 50% GRA appointment are generally not allowed to engage in outside employment. A graduate student's principal objective is to earn a graduate degree, and it is expected that other time, after satisfying the GRA commitment, will be devoted to their graduate education. A GRA provides financial support and valuable working experience.

Graduate Student Teaching Responsibilities and Ph.D. Teaching Requirements

Graduate Students and Teaching

The department values all aspects of teaching to include classroom and Extension-outreach teaching and student advising/mentoring. Because of this core commitment to teaching, the department believes strongly in providing graduate students with meaningful opportunities to both explore their interests and aptitudes for teaching and to enhance their teaching effectiveness. Similarly, the department has a rich tradition of service-oriented leadership and believes that a strong commitment to service is a key quality of those graduating from the Plant Pathology Graduate Program. As a result, the department has an expectation that all graduate students who receive departmental funding may be asked to provide teaching support.

Service in Teaching

Regardless of personal interest in classroom teaching, any graduate student who is or has received department support be asked to help support the teaching mission of the department. The department chair will work with faculty members to determine the teaching support needs in the department and will make all teaching support assignments. Teaching service may or may not meet the requirements for PLNTPTH 8901, Mentored Teaching in Plant Pathology, but will count toward meeting the Ph.D. requirement. Teaching service may take many forms including: preparation of laboratory material (media, microbe cultures, etc.), literature reviews to support lecture preparation, internet reviews of topics, proctoring of examinations, and grading of examinations and student assignments. Preparing and delivering lectures, serving as a mentored laboratory instructor, or working with a faculty mentor to offer online or distance education courses may also be acceptable for PLNTPTH 8901.

Ph.D. Teaching Requirement: Developing Skills and Building Experience

Teaching is an important aspect of the mission of the Department of Plant Pathology whether it is classroom teaching or Extension/outreach. It is also an important part of graduate education and the department is committed to ensuring that our graduate students have ample opportunities to explore this aspect of their professional development. Teaching opportunities in the department are varied and encompass both classroom and Extension/outreach teaching. Although not required of students pursuing the M.S. degree, all students working toward the Ph.D. degree, irrespective of source of funding, are expected to develop their skills related to teaching during his/her graduate program. The intellectual rigor and time commitment of the teaching experiences pursued will vary but should be the equivalent of a 3-5 credit course. For students seriously interested in teaching, the
department offers two mentored teaching courses – PLNTPTH 8901 (Mentored Teaching in Plant Pathology) and PLNTPTH 8902 (Mentored Extension/Outreach Teaching in Plant Pathology) – designed to provide professional classroom and extension/outreach teaching opportunities, respectively. Students that successfully complete these courses will have their teaching experience documented on their transcripts. Details of these two courses are provided in Appendix I and II. An abbreviated overview of how students plan for their mentored teaching experiences is provided below.

Students interested in pursuing mentored teaching experiences should discuss their goals with their advisor and SAC. Prior to enrolling in PLNTPTH 8901 or 8902, students are required to submit a brief written summary of the experience to include a statement regarding desired outcomes, the means of evaluation and assessment that will be used to gauge their teaching effectiveness and learning, and a request indicating the number of PLNTPTH 8901 or PLNTPTH 8902 credit hours sought to the department's Teaching Experience Coordinator (TEC) or Extension/Outreach Experience Coordinator (EEC), respectively. The amount of credit will vary based on the intellectual rigor and time commitment involved. The mentor for these teaching experiences may be the student's faculty advisor or another faculty member. The TEC and EEC are department faculty department appointed on an annual basis by the Department Chair. Once approved by the TEC or EEC, the summary serves as a contract between the student and faculty mentor.

Prior to enrolling in Mentored Teaching (PLNTPTH 8901) or Mentored Extension (PLNTPTH 8902), meet with the course instructor or mentor to discuss Desired Outcomes, Means of Evaluation, and the number of credit hours. This information is documented on a Mentored Teaching/Extension form, available on plantpath/intranet < Grad Forms and Resources. The form should be submitted prior to the semester.

Office Space

It is the policy of the department to provide office space for all graduate students in our program. Occasionally, lack of available space may prevent this, particularly in Columbus. In the case of limited office space in Columbus, priority will be given to Columbus-based graduate students based on seniority. We believe student interaction is a valuable part of a graduate student's experience, and effort will be made to provide desks or working space for all students.

Student Advisory Committee (SAC)

All students will select a SAC to advise them during their degree program. In most cases students will be admitted to a graduate program under the direction of a faculty advisor. Occasionally a student may be given the opportunity to choose a faculty advisor depending on their program interests, however this opportunity will be associated with a departmental associateship and it will be stated at the time the associateship is offered. A temporary advisor will be appointed by the Graduate Studies Committee Chair at the initiation of the term of residence for these students. The major advisor should be selected as soon as possible and no later than the end of the second term of residence. In consultation with the student, an SAC consisting of at least three faculty members including the major advisor will be
appointed. The major advisor will serve as the committee chairperson. Including the major advisor, at least two of the SAC members must be regular faculty in the Department of Plant Pathology. The membership of the SAC should be reported on Form I.

Students will be allowed to change major advisors if another graduate faculty member in the program is willing to advise them. If considering such a change, students are encouraged to consult with the Graduate Studies Chair. It is the student's responsibility to locate a new advisor and the new advisor will not necessarily be obligated to continue any financial support paid to the student by his/her previous advisor. For students who earn two graduate degrees in Plant Pathology, there is no expectation that the same faculty member serve as advisor for both degrees. SAC members, with additional faculty when required by University rules, are to serve on the M.S. degree Final Examination, the Ph.D. Candidacy Examination, the Ph.D. Dissertation Reading Committee, and the Ph.D. Final Examination.

Early in your program, you should meet with your advisor and SAC members to collectively select the courses to be taken for the degree sought and to discuss thesis or dissertation research and writing. The major advisor is responsible for directing the student's research and approving the research problem; however, the final responsibility for the content of the thesis or dissertation lies with the student. The student and the major advisor are encouraged to seek the advice of all SAC members and to keep them posted as to the student's progress. SAC members are encouraged to play an active role in advising the student, and it is recommended that each student meet with their SAC at least every 6 months. In cases involving petitions to the GSC or the Graduate School regarding the student's academic standing, or disputes between the student and his/her advisor, the SAC will be asked to make a written recommendation to the GSC.

Proposed Coursework and Potential Substitutions to Graduate Program Requirements
By the end of the first year, with the guidance and approval of the advisor and SAC, students should have determined their proposed coursework. This is to be documented in Form I, Graduate Program Requirements, and submitted to the Graduate Studies Chair for the student's file. The coursework content should meet the graduate program requirements as outlined below for the M.S. or Ph.D. degrees. Occasionally, the student and SAC may decide that substitutions for these requirements are justified. Such substitutions should be clearly documented, with a short justification, on Form I. Subsequent modifications to Form I should be justified in writing and submitted to the Graduate Studies Chair.

First Year Research Proposal Requirements
All Ph.D. students and M.S. thesis degree plan students are expected to prepare a research proposal of their thesis research within the first three semesters after enrollment. The proposal format will be determined by the student's major advisor and SAC.
Upon approval of the proposal by the student's major advisor and SAC, the student will be expected to undertake two additional requirements. First, all first-year students will present their proposals to the department in an oral seminar (20 minutes in length) during an annual symposium held after the end of Spring Semester. This symposium will be organized by the current Plant Pathology Seminar Committee with the involvement of the Plant Pathology Graduate Students Association. The symposium presentation will replace the current seminar requirement for first year students. However, all first year students will still be required to take Plant Pathology 8899 during Autumn and Spring semesters.

All graduate students are required to attend the Spring Symposium for First-Year Grad Students. This is an essential element of the overall PLNTPTH 8899 experience. It is very important that our first year students have the support and feedback from senior students, faculty and staff afforded by this event.

A second requirement is that the student will present their research proposal to their SAC and defend the proposal in an oral exam by the SAC. This presentation and defense will normally take at least an hour, but may last up to 2 hours. While required, this oral defense is not a candidacy exam of any kind, but simply a means by which the SAC can determine the student’s proficiency and further needs for development in coursework or research. Recommended modifications to the proposal should be made within a month of this exam.

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**English Proficiency Requirements**

Incoming international students are required to demonstrate writing proficiency in academic English. Students who do not meet specific exemptions will be required to take the ESL Composition Placement Test ([esl.ehe.osu.edu/home/testing/graduate-international-students/](https://esl.ehe.osu.edu/home/testing/graduate-international-students/)).

The test is administered by the English as a Second Language program prior to the student’s first semester. It is a one-hour writing test that assesses familiarity with university-level writing. More information on the exam is available online: [esl.ehe.osu.edu/home/testing/graduate-international-students/](https://esl.ehe.osu.edu/home/testing/graduate-international-students/)

After the ESL Composition Placement Test, the student may be placed in Advanced English as a Second Language (EDUTL 5901) or Academic Writing in English as a Second Language (EDUTL 5902). Students who achieve a score rated Qualify “Q” will not have to take any required ESL coursework.

Students who are placed in EDUTL 5901 will have to successfully complete the course and then take 5902. Students cannot take 5901 and 5902 concurrently.
**Master of Science (M.S.) Degree Requirements**

**Ph.D. in Plant Pathology - Advising Sheet**

New graduate students with no previous plant pathology experience may be asked to take/review an online version of General Plant Pathology prior to their first semester.

<table>
<thead>
<tr>
<th>Course number</th>
<th>Course Title</th>
<th>Credits</th>
<th>Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLNTPTH 5010</td>
<td>Phytobacteriology</td>
<td>2</td>
<td>AU Year 1</td>
</tr>
<tr>
<td>PLNTPTH 5020</td>
<td>Introductory Plant Virology</td>
<td>2</td>
<td>AU Year 1</td>
</tr>
<tr>
<td>PLNTPTH 6002.01</td>
<td>Advanced Plant Pathology Laboratory - Viruses and Bacteria</td>
<td>1</td>
<td>AU Year 1</td>
</tr>
</tbody>
</table>

**CORE**

<table>
<thead>
<tr>
<th>Course number</th>
<th>Course Title</th>
<th>Credits</th>
<th>Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLNTPTH 5040 &amp; PLNTPTH 5041</td>
<td>Science of Fungi: Mycology Lecture (3 cr) &amp; Science of Fungi: Mycology Lab (1 cr)</td>
<td>4</td>
<td>AU Year 1</td>
</tr>
<tr>
<td>PLNTPTH 5050</td>
<td>Plant Pathogenic Fungi</td>
<td>3</td>
<td>SP Year 1</td>
</tr>
<tr>
<td>PLNTPTH 5030</td>
<td>Plant Nematology</td>
<td>2</td>
<td>SP Year 1</td>
</tr>
<tr>
<td>PLNTPTH 6002.02</td>
<td>Advanced Plant Pathology - Plant Pathogenic Fungi and Nematodes</td>
<td>1</td>
<td>SP Year 1</td>
</tr>
<tr>
<td>PLNTPTH 5685</td>
<td>Plant Disease Diagnosis</td>
<td>2</td>
<td>SU Year 1 or 2</td>
</tr>
<tr>
<td>PLNTPTH 5603</td>
<td>Plant Disease Management</td>
<td>3</td>
<td>AU Year 2</td>
</tr>
<tr>
<td>Variable</td>
<td>Statistics class, as determined in consultation with *SAC</td>
<td>3</td>
<td>AU or SP Year 2</td>
</tr>
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</table>

**Electives**

<table>
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<th>Course Title</th>
<th>Credits</th>
<th>Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUTL 5901</td>
<td>Advanced English as a Second Language (if required)</td>
<td>3</td>
<td>Year 1</td>
</tr>
<tr>
<td>EDUTL 5902</td>
<td>Advanced Writing in English as a Second Language (if required)</td>
<td>3</td>
<td>Year 1</td>
</tr>
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</table>

**Seminar**

<table>
<thead>
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<th>Course number</th>
<th>Course Title</th>
<th>Credits</th>
<th>Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLNTPTH 8899</td>
<td>Seminar (1 credit) each Autumn &amp; Spring semester</td>
<td>1</td>
<td>AU, SP</td>
</tr>
</tbody>
</table>

**Research Credits**

Students will enroll in PLNTPTH 8999 Research each term (variable credits), including Summer, to fulfill full-time enrollment requirements for associateships/fellowships. Varies AU, SU, SP

**Total Credits**

*Student Advisory Committee (SAC).* The SAC consists of the major advisor and at least two graduate faculty, including the major advisor. At least two of the SAC members must be regular faculty in the Department of Plant Pathology. The SAC can approve electives, schedule changes or course substitutions. Course substitutions should be clearly documented, with a brief justification, on Form I and submitted to the Graduate Studies Committee chair.

**Total Credits:** The M.S. credit requirement is 30 graduate credit hours (semester), including research (8999) and seminar (8899) credits, with a minimum cumulative GPA of 3.0. Eighty (80) percent of those required credit hours must be completed at this University over a period of at least two semesters (Graduate School Handbook). Full-time students on graduate appointments typically exceed 30 total credits.
M.S. Thesis Degree Plan

As specified by the SAC, a typical M.S. thesis degree plan may include 20 to 25 credit hours of courses, not counting seminar (PLNTPTH 8899). Research credits will add 10 to 15 credit hours and will be registered for under PLNTPTH 8999, Research. After meeting with the student to determine the student's proficiency and needs for coursework, and during the development of Form I, Graduate Program Requirements, the SAC may reach the decision to recommend substitutions in courses listed above with other courses that are appropriate for the student's graduate program. Such changes should be listed and individually justified on Form I, and a copy sent to the Graduate Studies Chair for signature and approval. Often changes in coursework are also necessary later in a student's program of study. Justification for these substitutions should be listed as an amendment to Form I, again subject to approval by signature by the Graduate Studies Chair.

The Master's degree final oral examination in defense of the thesis will be given by the SAC. The examination can be comprehensive in nature and need not be confined to the thesis topic. The student is considered to have passed the Master's Examination successfully only when the decision of the Examination Committee is unanimously affirmative. Form II, Results of the Master's Examination and Recommendation to Continue to the Ph.D. Degree, will be used to report the results of the examination and provide a recommendation regarding continuation to the Ph.D. degree. A student may pass the M.S. degree examination but may not be recommended for continuation to the Ph.D. degree. Form II will be placed in the student's permanent file.

Form II (Word document format) is available on the department intranet: gradforms.osu.edu

If the final oral examination for the Master's degree is judged unsatisfactory, the rules pertaining to a second examination described in the Graduate School Handbook (Section 6.3) must be followed.

Master's Non-Thesis Degree Plan

The Master's non-thesis degree plan is available in Plant Pathology. The requirements and restrictions for this degree are as follows:

a) The University requirements include: no thesis, completion of minimum of 30 graduate credit hours with a cumulative GPA 3.0, and satisfactory performance on a departmental comprehensive written exam of at least 4 hours duration. At their discretion, the SAC may require an oral examination in addition to the 4 hour written examination.

b) The department additionally requires special projects in two of three areas: teaching, extension or research. The nature of each project will be determined by the SAC and will
be completed by formal written reports approved by the SAC. To meet these requirements, the student will schedule PLNTPTH 8901 - Mentored Teaching in Plant Pathology (3 to 5 credit hours), PLNTPTH 8902 - Mentored Extension/Outreach Teaching in Plant Pathology (3 credit hours) or PLNTPTH 6193 - Independent Study (3 to 5 credit hours) depending on the project subject area of teaching, extension or research, respectively. These hours will count toward the 30 credit hours required by the University.

Descriptions of PLNTPTH 8901 and 8902 are in Appendix I and II at the end of this handbook.

c) No PLNTPTH 8999, Research, credit will be included in the 30 credit hours required.

**Master's Degree Based on Candidacy Examination**

Upon the recommendation of the adviser and SAC, a Ph.D. student may earn an M.S. degree on the basis of satisfactorily completing the doctoral Candidacy Examination, if he/she does not already hold an equivalent Master's degree in Plant Pathology. The student must apply for this degree following completion of the Candidacy Examination as outlined in the Graduate School Handbook (Section 6.1.8: Earning Master's Degree On the Basis of Candidacy Examination). The form should be submitted by the next Application to Graduate deadline.

**Doctor of Philosophy (Ph.D.) Degree Requirements**

Doctoral degree programs give students the opportunity to achieve a high level of scholarly and technical competence. The doctoral degree program consists of a coherent schedule of courses and laboratory and/or field-based research. Success in coursework does not guarantee success in dissertation research, which must constitute an original and significant contribution to the field of plant pathology. Normally, a dissertation should include or be equivalent to several publications in peer-reviewed scientific journals.

After meeting with the student to determine the student’s proficiency and coursework needs (documented in Form I), the SAC may decide to recommend substitutions in courses listed above with other courses more appropriate for the student's graduate program. Such changes should be listed and each individually justified on Form I and a copy sent to the Graduate Studies Chair for signature and approval. Often changes in coursework are also necessary later in a student's program of study. Justification for these substitutions should be listed as an amendment to Form I, subject to final approval by the Graduate Studies Chair.

As specified by the SAC, a typical Ph.D. degree program may include ≈ 40-50 credit hours of coursework, not including PLNTPTH 8899 - Seminar.

To lower the need for total credit hours, graduate credits for qualified courses taken elsewhere may be transferred to The Ohio State University, provided they meet the conditions specified by the Graduate School (Graduate School Handbook, Section 4, Course Credit, Marks, and Credit-Hour Ratio). This requires approval of the advisor, the SAC, and the GSC, and should be done within the first semester of enrolling. A “Transfer of Graduate Credit Form” is submitted on gradforms.osu.edu for this request.
\(\sqrt{\text{In most cases, a formal transfer is not needed because it is rare for a full-time Ph.D. student to have less than 80 credit hours by the time of graduation. The exception could be for part-time students or students enrolling for the minimum number of credit hours, and for PhD students who have completed several of the core plant pathology courses in an MS program. See more details and important requirements for these transfers below under “Important Residency Requirements”.}}\)

\(\sqrt{\text{The recommendation for a minimum of } \approx 40-50 \text{ credit hours of coursework comes from the department, not the Graduate School. The SAC has great flexibility here. For instance, the SAC may grant “credit” to a student for graduate courses taken at another institution prior to enrolling at Ohio State, depending on the course content. This is not an official credit transfer that will appear on the student transcripts, but an in-house acknowledgment that some of the core course requirements have been met. This also does not reduce the requirement of 50 graduate credit hours beyond the baccalaureate degree required to earn a doctoral degree. The specific courses taken, as well as the exact number of credit hours in courses, are determined by the SAC based on the specifications in the departmental Graduate Student Handbook. The SAC would decide whether additional courses should be taken by the student at Ohio State.}}\)
Ph.D. in Plant Pathology - Advising Sheet

New graduate students with no previous plant pathology experience may be asked to take/review an online version of General Plant Pathology prior to their first semester.

<table>
<thead>
<tr>
<th>Course number</th>
<th>Course Title</th>
<th>Credits</th>
<th>Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLNTPTH 5010</td>
<td>Phytobacteriology</td>
<td>2</td>
<td>AU Year 1</td>
</tr>
<tr>
<td>PLNTPTH 5020</td>
<td>Introductory Plant Virology</td>
<td>2</td>
<td>AU Year 1</td>
</tr>
<tr>
<td>PLNTPTH 6002.01</td>
<td>Advanced Plant Pathology Laboratory - Viruses and Bacteria</td>
<td>1</td>
<td>AU Year 1</td>
</tr>
<tr>
<td>PLNTPTH 5040 &amp; PLNTPTH 5041</td>
<td>Science of Fungi: Mycology Lecture (3 cr) &amp; Science of Fungi: Mycology Lab (1 cr)</td>
<td>4</td>
<td>AU Year 1</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PLNTPTH 5050</td>
<td>Plant Pathogenic Fungi</td>
<td>3</td>
<td>SP Year 1</td>
</tr>
<tr>
<td>PLNTPTH 5030</td>
<td>Plant Nematology</td>
<td>2</td>
<td>SP Year 1</td>
</tr>
<tr>
<td>PLNTPTH 6002.02</td>
<td>Advanced Plant Pathology - Plant Pathogenic Fungi and Nematodes</td>
<td>SP Year 1</td>
<td></td>
</tr>
<tr>
<td>PLNTPTH 5685</td>
<td>Plant Disease Diagnosis</td>
<td>2</td>
<td>SU Year 1 or 2</td>
</tr>
<tr>
<td>PLNTPTH 5603</td>
<td>Plant Disease Management</td>
<td>3</td>
<td>AU Year 2</td>
</tr>
<tr>
<td>Variable Statistics class, as determined in consultation with *SAC</td>
<td>3</td>
<td>AU or SP Year 2</td>
<td></td>
</tr>
<tr>
<td>PLNTPTH 8400</td>
<td>Molecular Bases of Plant Host-Microbe Interactions</td>
<td>3</td>
<td>SP Year 2</td>
</tr>
</tbody>
</table>

**ELECTIVES**

Determined in consultation with SAC .................................Varies

**ENGLISH courses** (may be required for international students depending on ESL composition placement)

<table>
<thead>
<tr>
<th>Course number</th>
<th>Course Title</th>
<th>Credits</th>
<th>Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUTL 5901</td>
<td>Advanced English as a Second Language (if required)</td>
<td>3</td>
<td>Year 1</td>
</tr>
<tr>
<td>EDUTL 5902</td>
<td>Advanced Writing in English as a Second Language (if required)</td>
<td>3</td>
<td>Year 1</td>
</tr>
</tbody>
</table>

**SEMINAR**

PLNTPTH 8899 Seminar (1 credit) each Autumn & Spring semester .................Varies AU, SP

**RESEARCH CREDITS**

Students will enroll in PLNTPTH 8899 Research each term (variable credits), including Summer, to fulfill full-time enrollment requirements for associateships/fellowships AU, SU, SP

**TOTAL CREDITS**

* Student Advisory Committee (SAC). The SAC consists of the major advisor and at least two graduate faculty. Including the major advisor. At least two of the SAC members must be regular faculty in the Department of Plant Pathology. The SAC can approve electives, schedule changes or course substitutions. Course substitutions should be clearly documented, with a brief justification, on Form I and submitted to the GSC chair.

**TOTAL CREDITS**: The Ph.D. credit requirement is 90 graduate credit hours (semester), including research (8999) and seminar (8899) credits, with a minimum cumulative GPA of 3.0. At least 50 of those graduate credits must be completed beyond the master's degree (Graduate School Handbook). Full-time students on graduate appointments typically exceed 90 total credits.
Important Credit Hour and Residency Requirements

For PhD students, the following Graduate School requirements must be fulfilled after the master’s degree has been earned or after the first 30 hours of graduate credit have been completed.

From Graduate School Handbook, Section 7, Doctoral Degree Programs:

Credit Hours and Residency Requirements 7.2

Minimum Hours. A minimum of 80 graduate credit hours beyond the baccalaureate degree is required to earn a doctoral degree. If a master's degree has been earned by the student, then a minimum of 50 graduate credit hours beyond the master's degree is required. (Note: this can include 8999 research credit hours.) If the master's degree was earned at another university, course credits may be transferred to Ohio State so that the actual credits will count towards the doctoral degree. The request is documented in a Transfer of Graduate Credit form (gradforms.osu.edu) and submitted to the Graduate School. The SAC must approve of the graduate credit transfer. The Transfer of Graduate Credit form requires the approval of the Graduate Studies Chair and the student's advisor.

A student must be registered for at least three graduate credit hours during each semester session or term in which the candidacy examination is taken, the final oral examination is taken, and the semester or term of expected graduation.

Master's Credit. When a doctoral student has taken a master’s degree at this university and has earned graduate credit in excess of the minimum required for that degree, the student’s advisor, with the approval of the Graduate Studies Committee, notifies the Graduate School of the courses to be counted toward the 50 graduate credit hours required for the doctoral degree. This notification must occur no later than the end of the first semester or session of enrollment beyond completion of the master’s degree. Such graduate credit hours would be those normally earned as part of the doctoral degree program.

Petition. The Graduate Studies Committee may petition the Dean of the Graduate School for an exception of the 80 graduate credit-hour requirement when it imposes an undue delay on a student’s doctoral program. The student must fulfill all other doctoral degree requirements.

Residency. The purpose of the residency requirements is to give students the opportunity to engage in intensive, concentrated study over an extended period of time in association with faculty members and other students in an atmosphere conducive to a high level of intellectual and scholarly activity. The following requirements must be fulfilled after the master's degree has been earned or after the first 30 semester hours of graduate credit have been completed:

1. A minimum of 24 graduate credit hours required for the Ph.D. must be completed at this university
2. A minimum of two consecutive pre-candidacy semesters or one semester and a summer session with full time enrollment must be completed while in
residence at this university

3. A minimum of six graduate credit hours over a period of at least two semesters or one semester and a summer session must be completed after admission to candidacy

Changes in Registration Requirements for Post-Candidacy Doctoral Students

Please be aware of the following registration requirements for post-candidacy students, effective Autumn Quarter 2008, as described in the Graduate School Handbook

Admission to Candidacy. Provided that the student is in good standing at the end of the semester or summer session in which the candidacy examination is completed, satisfactorily completing that examination admits the student to candidacy for the doctoral degree in that program at the end of that semester or session.

A student is normally expected to enroll primarily in 8999 or in program-approved courses after satisfactorily completing the candidacy examination. Post-candidacy doctoral students must enroll for at least three credit hours (full time). Post-candidacy doctoral students must also fulfill the post-candidacy residency requirement of a minimum of six graduate credit hours over a period of at least two semesters or one semester and summer session after admission to candidacy. Candidacy status established in one doctoral program is not transferable to another doctoral program.

Continuous Enrollment. This policy is effective for all students who were admitted to the Graduate School Autumn Quarter 2008 and after.

All students who successfully complete the doctoral candidacy examination will be required to be enrolled in every semester of their candidacy (summer session excluded) until graduation. Students must be enrolled for at least three credits per semester. While the Graduate School and the individual graduate programs will monitor the enrollment of all post-candidacy students, it ultimately will be the responsibility of each student to ensure that they are meeting the enrollment provisions of this policy.

Can a post-candidacy doctoral student register for additional credit hours above three?

Yes. A decision to register for more than three credits should be made following discussions between the student and his or her advisor and should meet with the approval of the student's graduate program. In making such decisions, advisors and graduate programs should consider the academic and professional relevancy of the additional credits for individual doctoral students, and not simply budget implications for the department. The expectation is that registrations above three credits should be made for academic and professional reasons, including opportunities for a graduate student to pursue a graduate interdisciplinary specialization or a graduate minor.
For post-candidacy students, the request to register for over 3 credits must be submitted to the Graduate Studies Chair in Plant Pathology prior to registration.

In the situation where a post-candidacy student wishes to enroll in a course, how the credits are distributed between the proposed course, research (PLNTPTH 8999) and seminar (PLNTPTH 8899) is at the discretion of the student and their advisor. However, in the situation that official registration for PLNTPTH 8899 is not possible, attendance in seminar is still expected of all students.

Candidacy Examination

For Ph.D. students, the Candidacy Examination is a test of the student's comprehension of plant pathology and allied areas of biology and agricultural science, and the ability to engage in critical thinking and express ideas clearly. The Candidacy Examination is comprehensive and consists of both written and oral parts. The exam is given after the student has completed all or nearly all of the required coursework.

Students must discuss and arrange with their SAC committee when to take the written and oral portions of the examination.

The Application for Candidacy Examination form (available on gradforms.osu.edu) must be approved by the advisor and Graduate Studies Chair and submitted to the Graduate School at least two weeks prior to the date of the oral examination. The Graduate School requires that the student be in GOOD STANDING (i.e., cumulative grade point average [CGPA] of 3.0 or greater and making reasonable progress) before this examination can be scheduled. Reasonable progress is defined in the Graduate Student Review section. In Plant Pathology it is expected that the student demonstrate research ability and aptitude before scheduling the exam. The examining committee for the Ph.D. Candidacy Examination shall consist of at least four Graduate Faculty members plus the Graduate School Representative (if required by the Graduate School), who is selected by the Graduate School. Members of the SAC serve on this committee. At least two members of the examining committee shall be from the Department of Plant Pathology and the major advisor will serve as chair of the committee.

The written portion of the Ph.D. Candidacy Examination shall be in the form of either questions submitted by each of the committee members or a research proposal. The topic of the proposal shall be agreed upon by the members of the committee and cannot be in an area directly related to the candidate's dissertation research. It is important to note that the SAC, and not the student, chooses the type of candidacy exam.

See Appendix III in this handbook and Section 7 in the Graduate School Handbook for detailed instructions on the Ph.D. Candidacy Examination.

The written portion of the exam shall be scheduled so that the answers or proposal can be returned to the respective members of the committee at least two weeks in advance of the
date scheduled for the oral part of the examination. Members of the examining committee shall mark their portions of the written examination or the proposal either satisfactory or unsatisfactory on the Gradform. The written portion of the exam will be returned to the student prior to the oral exam. The written and oral portions of the Candidacy Examination constitute a single examination.

The oral portion of the Candidacy Examination, held after completion of the written portion, will last two hours. The oral portion must be completed within one month after the written portion.

**Videoconferencing.** A petition to the Graduate School is only required if more than one committee member will be connecting from a distance. Students should submit a Committee and Examination Petition to the Graduate School prior to the examination (gradforms.osu.edu). All doctoral candidacy oral examinations involving video conferencing must adhere to the Graduate School's guidelines for videoconferencing (Graduate School Handbook, Appendix B - Guidelines for Video Conferencing Relating to Master's and Doctoral Examinations).

The student is considered to have successfully completed the Candidacy Examination successfully when the decision of the Candidacy Examination Committee is *unanimously* affirmative. If the examination is judged unsatisfactory, Graduate School policies pertaining to **Results of the Candidacy Examination** will be followed (Graduate School Handbook, Section 7, Doctoral Degree Programs).

**Dissertation Committee**
The Dissertation Committee is made up of at least four faculty with the major advisor serving as the chair. The members of the SAC serve on this committee.

The student is required to have the Ph.D. dissertation draft in the hands of each member of the dissertation committee at least two weeks prior to submission to the Graduate School (i.e., four weeks before the Final Oral Examination). The dissertation draft should be presented to the assigned Graduate Faculty Representative no less than one week before the Final Oral Examination.

Committee members may find it necessary to recommend changes before an examination can be scheduled. It is the duty of each member of the committee to certify whether the Ph.D.
dissertation draft represents a significant contribution to knowledge of sufficient importance to warrant holding a Final Oral Examination. After approval by the dissertation committee, a complete paper draft of the dissertation must be submitted to the Graduate School no later than two weeks before the final oral examination. The decision regarding final approval of the dissertation will be made following the final oral examination.

**Final Ph.D. Seminar**

Ph.D. students are required to give a public seminar covering their research accomplishments prior to receiving their degree. This seminar may be given as part of PLNTPTH 8899 or as a separate seminar usually presented on the day of their Final Oral Examination. Based on the recommendation of the SAC, the seminar can be given before or as part of the Final Oral Examination in accordance with rules in the Graduate School Handbook (Section 7.10, Final Examination).

**Final Oral Examination**

After approval of the Application for Final Examination by the Graduate School, the Graduate School Representative will be selected by the Graduate School.

The student is considered to have completed the Final Oral Examination successfully after a unanimous affirmative vote by the Final Oral Examination Committee members. The results of this exam are reported on the Final Oral Examination Report form.

If the examination is judged unsatisfactory, the Final Oral Examination Committee must decide whether the student will be permitted to take a second Final Oral Examination and must report that decision on the Final Oral Examination Report form. For policies relating to the second Final Oral Examination, refer to the Graduate School Handbook.

**Assessment Rubric – Final Examination**

Committee members will be asked to assess the graduate program with a rubric, to be completed during and after the oral examination. The advisor should obtain paper copies of the rubric prior to the examination. The rubric is used for assessment of the graduate program (not the individual student).

The Graduate School requires that the final approved version of the dissertation be completed within five years after successfully completing the Candidacy Examination. This is a maximum time limit set by the University. In Plant Pathology, it is expected that the dissertation be completed in substantially less time than five years after the candidacy exam if the student is making reasonable progress. Ph.D. degree graduation requirements are provided in the current edition of the Graduate School Handbook.
Departmental Seminar

Graduate students are required to register for Plant Pathology Seminar (PLNTPTH 8899) during Autumn and Spring semesters of each academic year unless they have a direct conflict with another scheduled class, or unless they are teaching (TA-ing) at the same time, in which case this requirement is waived. In all other cases in which the students are absent, including those in which the students have a direct conflict with another scheduled class, the students are still required to be registered in PLNTPTH 8899 and abide by the course rules established by the seminar coordinators, which may include the obligation to view the recorded seminars and provide evidence they have done so. In all cases, absence from seminar must be approved by the faculty seminar coordinators and Graduate Studies Chair.

The PLNTPTH 8899 grade (Satisfactory or Unsatisfactory) will be based on attendance and participation.

Except for first year students (see section on First Year Research Proposal Requirements), graduate students are required to present one seminar each year at a public venue to meet degree requirements. The presentation of a minimum of one seminar for the M.S. degree (usually, but not always, a final research report) and two seminars for the Ph. D. degree (usually, but not always, a research proposal and a final research report) is required in PLNTPTH 8899. Other seminar presentations to meet the one-per-year requirement may be made outside of PLNTPTH 8899, but the audience must consist of more than their immediate laboratory research group. Examples of seminars or presentations that would be appropriate include oral presentations at scientific meetings (e.g. American Phytopathological Society, American Society of Plant Biologists, American Society for Microbiology, Society Of Nematologists), Extension presentations to clientele groups, and research focus group presentations (e.g. Wooster Area Molecular Biology Association WAMBA; Kowlett seminar series in Columbus; or OSU Molecular Microbe and Plant Interactions). Classroom teaching does not fulfill this requirement. The faculty advisor is responsible for monitoring the number and type of seminars given by their students in order to fulfill requirements. A plan for meeting the seminar degree requirement will be proposed on Departmental Form I and reviewed by the SAC. The date and type of seminar presented will be recorded on the student's Annual Progress Report.

Based on the number of open PLNTPTH 88899 seminar dates available, seminar coordinators will schedule students to present seminars as needed to complete the seminar schedule. When requested by the seminar coordinators, students are expected to present a seminar regardless of whether or not they have already met minimum requirements by giving a seminar in another venue. The topics and student presenters are to be determined by the faculty seminar coordinators in consultation with students and their faculty advisors.

Registration Guidelines for PLNTPTH 8999, RESEARCH

Research is an integral part of graduate student training in Plant Pathology. Both M.S. and Ph.D. students in Plant Pathology are required to take the maximum number of credit hours of PLNTPTH 8999 each semester. Our department strongly encourages all full-time M.S. students and pre-candidacy Ph.D. students to register for the maximum of 16 credit hours in Autumn and Spring semesters, and the maximum of 8 credits hours during Summer.

Tuition/fees are a flat rate for 8-16 credits for Autumn and Spring semesters, therefore registering for up to 16 PLNTPTH 8999 credits does not result in increased expenses for full
time students. Starting Autumn Semester 2012, students enrolled in more than 18 credit hours will be billed for credits beyond 18, in addition to billing for full-time enrollment. The "Over 18 Hours" rate is the same as the per credit hour rate up to 12 hours, and applies only to instructional, general and non-resident fees (registrar.osu.edu/policies/feesexplanation.asp)

Follow the guidelines to determine the number of credit hours of PLNTPTH 8999 to register for in any particular term.

a) M.S. and pre-candidacy Ph.D. students; taking courses:
Courses, X number of credit hours (includes 1 credit PLNTPTH 8899 AU and SP)
PLNTPTH 8999 (16 minus X) credit hours for a maximum of 16 credit hours

b) M.S. and pre-candidacy Ph.D. students; AU and SP semesters, not enrolled in other regular courses:
PLNTPTH 8899 1 credit hour
PLNTPTH 8999 15 credit hours

c) M.S. and pre-candidacy Ph.D. students; Summer Term, not taking other regular classes (exceptions may apply to students on fellowships, international fellowships or scholarships, and veterans)
PLNTPTH 8999 To be determined. (minimum is 4 for GRAs, 6 for Fellows)

d) For post-candidacy students, enrollment in 3 credits is considered full-time and therefore students holding 50% GRA appointments will retain student health insurance and other applicable benefits.

Typically this will include 2 credits of PLNTPTH 8999 and 1 credit of PLNTPTH 8899 in Spring and Autumn semesters, and 3 credits of PLNTPTH 8999 during the Summer. Requests to enroll for more than 3 credits must have the approval of the student's advisor and SAC and should be submitted to the Graduate Studies Committee prior to registration. See the section, "Changes in Registration Requirements for Post-Candidacy Doctoral Students" for further details.

Form I, Graduate Program Requirements

All students must file in the department office a copy of Form I entitled, Graduate Program Requirements. This form is available on the department's intranet: plantpath.osu.edu/intranet/gradforms

Form I must be given to the GSC Chair for signature and placed in the student's permanent file as soon as possible, but no later than the end of the student's second term of enrollment during the academic year. After approval by the SAC, Form I will be the approved course schedule for the student's entire degree program. This form will be presented to the committee for any oral examination related to the degree program and will serve as the basis for the request to take the Ph.D. Candidacy Examination. Information in this form also will be used by the GSC for periodic review of each student's progress. It is the duty of the graduate student, in consultation with the major advisor, to see that all records are correct and up-to-date. Students completing the M.S. degree and continuing for a Ph.D. need to complete a new Form I.
Maintaining a Research Notebook

All graduate students pursuing thesis or dissertation research are expected to maintain a detailed and comprehensive research notebook, and make it available upon request by the advisor or SAC. The exact format of the notebook should be determined by the advisor. Keeping such a notebook is an essential element in graduate research training and for effective communication between the student and advisor. All original data, notebooks and research materials are the property of the University and will be left with the advisor when a student leaves the laboratory.

Graduate Student Review, Evaluation and Denial of Further Registration

Graduate students in the department are evaluated formally and informally in various ways. The Graduate School monitors cumulative grade point average (CGPA) every term (Graduate School Handbook, Section 5. Academic and Professional Standards). To be in good standing in the Graduate School, a student must maintain a graduate cumulative point-hour ratio (CPHR) of 3.0 or better in all graduate credit courses and must maintain reasonable progress toward Graduate School or graduate program requirements.

A student with fewer than 9 earned hours of graduate credit whose CPHR is below 3.0 will receive a “poor performance” letter from the Graduate School urging consultation with the advisor. A student whose graduate CPHR falls below 3.0 after 9 graduate credit hours is placed on probation by the Dean of the Graduate School. A student on probation in the Graduate School may not be appointed or reappointed as a graduate associate. A student on probation whose record continues to deteriorate will be warned that dismissal is likely if the record does not improve. Special warnings include performance criteria tailored to the individual student, usually in consultation with the Graduate Studies Committee Chair.

The advisor and SAC informally evaluate the student throughout the year with every interaction. There is also a formal review of each graduate student that occurs yearly which is under the auspices of the GSC. During this review, Form I is updated and Form III, the Graduate Student Evaluation, Goal Setting and Progress Report Form, is completed by the advisor for each student regardless of the source of financial support. Students are reviewed based on their Knowledge of Field, Productivity, Communication Skills, Technical Skills, Intellectual Skills, and Professionalism (e.g., cooperation), and goals are set for each of these areas. The advisor indicates whether or not the student is making REASONABLE PROGRESS. Reasonable progress means that the student is having satisfactory performance in Knowledge of Field, Productivity, Communication Skills, Technical Skills, Intellectual Skills, and Professionalism. The student can respond in writing to any comments made by the advisor in the review form. The review form is placed in the student's permanent file and copies are made available to all faculty members of the student's SAC and the GSC. The GSC Chair may contact the advisor and/or the student if issues are raised in the annual review that warrants attention.

Although completing Form III, the Graduate Student Evaluation, Goal-Setting and Progress Report Form, is mandatory for each student on an annual basis, advisors may use this form at any time to monitor student progress, to address unsatisfactory performance, or when the student fails to meet academic standards (See section on Academic Standards). If the faculty
advisor indicates that a student is not making reasonable progress, then a copy of the completed review form is given to all members of the student's SAC, and a new Graduate Student Evaluation, Goal-Setting and Progress Report Form (Form III) must be completed within a minimum of 5 weeks. The student or the faculty advisor may request a meeting of the SAC when a review indicates unsatisfactory progress. The completed Form III will be placed in the student's permanent file and copies will be made available to all faculty members on the GSC.

A student who is evaluated by the faculty advisor as not making reasonable progress after two evaluations will be notified by the GSC Chair of the consequences of the unsatisfactory performance. The GSC chair will also send copies of Form III(s) and a letter indicating the student is not making reasonable progress to the Graduate School. As described in the Graduate School Handbook, Section, Academic and Professional Standards, Reasonable Progress: A student who does not maintain reasonable progress toward a degree or who does not fulfill other graduate program requirements, including those regarding professional standards and misconduct, may be denied further registration in that program by the Graduate School on the recommendation of the Graduate Studies Committee chair. No student may be denied further registration in a graduate program without first being warned by the Graduate School that such action may take place. The Graduate School specifies the conditions the student must satisfy in order to demonstrate reasonable progress and to continue enrollment in the graduate program. Conditions consist of completion of course work or other requirements as approved by the Graduate Studies Committee. A student who has been warned that further registration in the graduate program may be denied and who then satisfies the specified conditions is placed in good standing by the Graduate School.

A student who is judged as not making reasonable progress towards the degree may seek an alternative faculty advisor. It is not the GSC’s responsibility to identify or appoint another faculty advisor. Continuation in a departmental graduate degree program with a new faculty advisor must be approved by the GSC. Additionally, a student that has not made reasonable progress towards a degree cannot be appointed as a departmental Graduate Associate and the current associate appointment funding will be terminated. Student financial support supplied by a faculty advisor is at the discretion of the faculty advisor. Graduate Associate appointments may be terminated prior to the end of the appointed period only with written approval of the Graduate School.

**Thesis and Dissertation Binding**

Department photocopy machines may be used for making preliminary copies of the thesis or dissertation for reading committee use, however, graduate students are responsible for the cost of bound copies of their thesis or dissertation. Students must provide good quality, bound copies of their thesis or dissertation to the department and to the major advisor(s). The departmental copies are to be bound in a permanent cloth-backed binding. More information on binding is available from the University Libraries in Columbus and the OARDC Library in Wooster.

**Publication of Thesis or Dissertation Research**

Graduating students are expected to work with their major advisors to prepare manuscripts for publication from suitable portions of their thesis or dissertation research and submit these manuscripts to appropriate professional journals. Ph.D. students along with their advisor are required to have at least one manuscript submitted to a peer reviewed journal prior to the
students’ dissertation defense. A copy of the submitted manuscript must be given to the members of the SAC at least two weeks prior to the final exam. Ph.D. students are strongly encouraged to have at least one manuscript accepted prior to graduation.

**Grievance Procedures**

Concerns and all points of grievance should be resolved through discussion with the major advisor, the SAC, the GSC Chair and the Department Chair, in this order of priority. When resolution of a problem is not possible through this normal pathway, further recourse may be obtained using grievance procedures established by the Council on Research and Graduate Studies. Grievance procedures are described in the Graduate School Handbook, Appendix D – Graduate Student Grievance Review Guidelines.

**Ownership of Research Data and Intellectual Property**

Research is an integral part of graduate student education. Students participating in the research efforts of the Department have a unique privilege that requires ethics and a high degree of integrity. Additionally, students should recognize that they are conducting research for educational purposes only and that all data and intellectual property are owned by The Ohio State University. Students do not "own" the research data they generate during their graduate program.

Sole ownership of research data and intellectual property is clearly defined as the property of The Ohio State University in the following University Rules and Federal and State laws.

**University Rules:** The policy on Patents and Copyrights established by the Board of Trustees pursuant to University Rule 3335-13-06 govern the University's ownership of all intellectual property created by OSU faculty and students.

**Federal Law:** The Bayh-Dole Act (1980) created a uniform federal policy that gives universities the right to retain title to inventions made under federally-funded research programs.

**State Law:** The Ohio Revised Code section 3345.14 provides that all rights to discoveries and inventions that result from research or investigation conducted at a state university, or by employees of a state university acting within the scope of their employment, or with funding, equipment or infrastructure provided by or through a state university, shall be the sole property of that University.
APPENDIX I
Mentored Teaching in Plant Pathology

Plant Pathology 8901 (PLNTPTH 8901)

Instructors: Faculty in the Department of Plant Pathology

Credit: 1-5 credit hr (G) – repeatable to a maximum of 10 credit hours.

Semesters Offered: All semesters- Arranged

Prerequisites: Graduate standing and completion of the Teaching Orientation@Ohio State, offered by OSU’s University Center for the Advancement of Teaching (ucat.osu.edu). Completion of AEE 8735: College Teaching in Agriculture or EDUPL 7404: College Teaching is strongly encouraged.


*Teaching @ Ohio State: A Handbook*, 2001, available online > ucat.osu.edu/read/handbook

Due to the diversity of the mentored teaching experiences undertaken, no reading list is presented. Instead, the use of *Teaching Tips* the *Teaching @ Ohio State Teaching Handbook* is suggested as they are excellent resources for new college and university teachers – especially for graduate students interested in teaching.

Overview of Course: Course participants will work either one-on-one or in small groups with a faculty mentor to gain experiences focused on direct interactions with students and on the scholarly aspects of teaching. Because no two students are identical, the breadth and scope of the teaching experiences undertaken will be individualized depending on the mutual interests and strengths of the students and faculty mentors.

PLNTPTH 8901 (Mentored Teaching in Plant Pathology) is designed to provide graduate students interested in college teaching with intensive hands-on opportunities that culminate in both the exploration of their aptitude as educators and the development of their teaching skills and effectiveness. The long-term goal of PLNTPTH 8901 is to prepare students to be effective college teachers in the fields of plant health science, plant pathology and/or plant-microbe interactions.
Course Learning Goal and Outcomes:

Goal 1: Become familiar with teaching techniques by completing a mentored teaching experience.

Outcome 1.1: Evaluate good teaching strategies.
Outcome 1.2: Design high quality curriculum materials.
Outcome 1.3: Practice delivering clear instruction in a classroom following the highest professional and ethical standards.

Course Logistics: Upon becoming a graduate student in the Department of Plant Pathology, each student along with their advisor and Student Advisory Committee (SAC) members are expected to discuss his/her desires/expectations for participating in a mentored teaching experience. According to the Graduate Handbook in Plant Pathology, “all students working toward the Ph.D. degree, irrespective of source of funding, are expected to develop their skills related to teaching during his/her graduate program.” These teaching experiences may take several forms to include extension-outreach, formal classroom or laboratory teaching or the mentoring of undergraduate students that are conducting independent research. PLNTPTH 8901 is designed to provide a learning opportunity and credit for those interested in classroom teaching.

Prior to engaging in the mentored teaching experience for which PLNTPTH 8901 credit is sought, students are required to submit a brief written summary of the experience to be undertaken to include a statement regarding desired outcomes, the means of evaluation and assessment that will be used to gauge their teaching effectiveness and learning, and a request indicating the number of PLNTPTH 8901 credit hours sought to the department’s Teaching Experience Coordinator (TEC). The TEC is a faculty member in the department who is appointed on an annual basis by the Department Chairperson. This summary must be reviewed and signed by both the student seeking credit and the faculty mentor working with the student. In essence, once approved, this summary serves as a contract between the student and the faculty mentor. The TEC’s primary roles are to review each request on a case-by-case basis and to ensure fairness and equity in the amount of credit approved across the range of teaching experiences undertaken. The TEC will use the following criteria when reviewing summaries and approving credit hour requests: (a) the intellectual scope and rigor of the experience proposed; (b) the time commitment required by the student to successfully complete the experience; (c) the amount of coaching and evaluation done on the part of the faculty mentor; and (d) the level and credit hours associated with the course in which the student is assisting (the amount of PLNTPTH 8901 credit approved for a given teaching experience will not exceed the amount of credit earned by students enrolled in the course).

For example, students working with a faculty mentor to deliver a laboratory session of General Plant Pathology (PLNTPTH 3001 – 3-credit hour course) which involves 10-20 hours of pre-semester planning and preparation, attendance at three, 1-hour class sessions per week, active participation in two 1-hour lab sessions per week, co-development of quizzes (with faculty mentor), maintenance of scheduled office hours, grading (for review by the faculty instructor), and weekly assessment meetings with the student’s faculty mentor, would be considered a 3-credit hour PLNTPTH 8901 experience. The number of credit hours also depends on the student’s involvement in pre-course planning. Another example is preparing and teaching the laboratory section of Science of Fungi – Mycology (1 day a week, 14 week course), which would be 2 credits
of PLNTPTH 8901. Preparing and delivering a guest lecture/session, developing a new laboratory exercise or the mentoring of an undergraduate research intern are examples of activities that would typically be worthy of 1-2 credit hours of PLNTPTH 8901. The following activities, although related to and in support of the department’s teaching mission, are not by themselves typically considered appropriate for PLNTPTH 8901 credit: literature reviews to support the preparation of lecture materials; proctoring of examinations; grading of examinations and/or assignments; preparation of laboratory materials (media, cultures, plant materials, etc); or internet reviews of subjects.

**Evaluation and Assessment:** Graded S/U. Regardless of the intensity or duration of the teaching experience undertaken, some formal means of assessing and documenting the student’s teaching effectiveness and quality is required to receive a satisfactory grade in PLNTPTH 8901. The specific means of assessment and feedback is entirely up to the student and faculty mentor. Examples may include the use of the Student Evaluation of Instruction (SEI) Form, subjective evaluations completed by students, periodic classroom or laboratory assessments by the faculty mentor, or evaluation of course materials, teaching notes, etc. Depending on the scope and goals of the experience, student assessments of the faculty mentor’s teaching might also be a useful means for students to gauge their own teaching effectiveness and serve as a useful learning tool. The key is that some form of assessment be planned, implemented, summarized and shared with the student in a timely fashion to maximize the impact and learning of the student. Copies of the written assessment should be placed in the student’s file and given to the TEC.

**Academic Misconduct:** Academic misconduct erodes the integrity of the University and is unacceptable. Suspected cases will be forwarded to the University’s Committee on Academic Misconduct for action as outlined in the OSU Student Resource Guide / Code of Student Conduct which is available online at [studentaffairs.osu.edu/csc/](http://studentaffairs.osu.edu/csc/).

**Students with disabilities:** If you have a disability, please let your faculty mentor know. We will work with any student who desires an accommodation based on the impact of a disability but you need to let us know before we can be accommodating. Additional assistance is also available through the Office for Disability Services - Room 150 Pomerene Hall (Columbus) or by calling (614) 292-3307.
APPENDIX II
Mentored Extension/Outreach Teaching in Plant Pathology

Plant Pathology 8902 (PLNTPTH 8902)

Instructors: Faculty, Extension Associates and OSU Extension Educators

Credit: 1-3 credit hr (G)

Semesters Offered: All semesters - Arranged

Prerequisites: Graduate standing

Overview of Course: PLNTPTH 8902 (Mentored Extension/Outreach Teaching in Plant Pathology) is designed to provide graduate students interested in Extension/Outreach Educational Programming with intensive hands-on opportunities that culminate in both the exploration of their aptitude as extension educators and the development of their skills and effectiveness in this area. The long-term goal of Plant Pathology 8902 is to prepare students to be effective extension educators in plant health science and plant pathology.

Course participants will work either one-on-one or in small groups with a faculty/staff mentor to gain experiences focused on direct interactions with growers and/or industry groups and on the scholarly aspects of developing and/or delivering extension-outreach programs and educational materials. Because no two students are identical, the breadth and scope of the extension/outreach experiences undertaken will be individualized depending on the mutual interests and strengths of the student and faculty/staff mentor.

Course Learning Goal and Outcomes:
Goal 1: Become familiar with extension teaching techniques by completing a mentored extension/outreach teaching experience.

Outcome 1.1: Practice delivering clear instruction in a classroom or extension setting following the highest professional and ethical standards.

Outcome 1.2: Design high quality extension or education outreach materials.

Course Logistics: Upon becoming a graduate student in the Department of Plant Pathology, each student along with their advisor and Student Advisory Committee (SAC) members are expected to discuss his/her desires/expectations for participating in a mentored teaching experience. According to the Graduate Handbook in Plant Pathology, “all students working toward the Ph.D. degree, irrespective of source of funding, are expected to develop their skills related to teaching during his/her graduate program.” These teaching experiences may take several forms to include extension-outreach, formal classroom or laboratory teaching or the mentoring of undergraduate students that are conducting independent research. Plant Pathology 8902 is designed to provide a learning opportunity and credit for those interested in extension-outreach teaching. Prior to engaging in an extension/outreach experience for which Plant Pathology 8902 credit is sought, students are required to submit a brief written summary of the experience to be undertaken to include a statement regarding desired outcomes, the means of evaluation and assessment that will be used to gage their extension/outreach teaching.
effectiveness and a request indicating the amount of Plant Pathology 8902 credit hours sought to the department’s Extension Experience Coordinator (EEC). The EEC is a faculty member in the department who is appointed on an annual basis by the Department Chairperson. This summary shall be reviewed and signed by both the student seeking credit and their mentor. In essence, once signed, this summary serves as a contract between the student and mentor. The EEC’s primary role is to review requests on a case-by-case basis to ensure fairness and equity in the amount of credit approved across the range of extension/outreach teaching experiences undertaken. The EEC will use the following criteria when reviewing summaries and approving credit hour requests: (a) the intellectual scope and rigor of the proposed experience; (b) the time commitment required by the student to successfully complete the experience; (c) the amount of coaching and evaluation done on the part of the faculty mentor; and (d) the type, quantity, quality, and potential effectiveness of educational materials developed.

**Evaluation and Assessment:** Graded S/U. Regardless of the intensity or duration of the extension/outreach experience undertaken, some formal means of assessing and documenting the student’s teaching effectiveness and the quality of any educational materials developed by the student is required in order to receive a satisfactory grade in PLNTPTH 8902. The specific means of assessment and feedback is entirely up to the student and mentor but should provide a means for students to gauge their own extension/outreach teaching effectiveness and serve as a useful learning tool. The key is that some form of assessment is planned, implemented, summarized and shared with the student in a timely fashion to maximize impact and learning. Methods for assessment of student performance may include the OSU Extension Evaluation of Effective Extension Teaching (EEET) materials, subjective evaluations completed by growers, peers or other audience participants, periodic assessments by mentors, or other effective means of evaluation. Copies of the written assessment should be placed in the student’s file and given to the EEC.

**Academic Misconduct:** Academic misconduct erodes the integrity of the University and is unacceptable. Suspected cases will be forwarded to the University’s Committee on Academic Misconduct for action as outlined in the OSU Student Resource Guide / Code of Student Conduct which is available online at studentaffairs.osu.edu/csc/.

**Students with disabilities:** If you have a disability, please let your faculty mentor know. We will work with any student who desires an accommodation based on the impact of a disability but you need to let us know before we can be accommodating. Additional assistance is also available through the Office for Disability Services - Room 150 Pomerene Hall (Columbus) or by calling (614) 292-3307.
APPENDIX III
Ph.D. Candidacy Examination

In the Plant Pathology graduate program, we are not only concerned that students master a significant body of knowledge, but that they are adequately prepared for, and capable of, carrying out original, independent dissertation research. The Candidacy Examination should test for depth in an area of specialization and breadth in related fields of biology. In addition, students should demonstrate critical thinking skills.

Choice for the Written Exam and Expectations. The student’s advisor and SAC will make the decision on the type of written exam for the Candidacy Examination. This decision will be made at least 6 weeks prior to the anticipated start of the written examination. The student should be told what the expectations of the SAC will be regarding the written examination. If the proposal option is selected, these expectations should specify: the coverage and depth of the proposal, the format of the proposal, the time allocated to writing the proposal, and how the evaluation of the proposal will be made. The student will also be told whether they will have the option to revise the proposal if the first submission is unacceptable. The time for revision, if any, is part of the total time allocated for the proposal writing. In addition, the student should be advised regarding how much coursework to review.

The Written Proposal. Prior to the General Examination the candidate will prepare a written research proposal in lieu of answering written questions submitted by each SAC member. Since this is formally the written part of the examination, the Graduate School must be notified of the start and expected completion dates of the written portion of the examination.

The subject of the proposal will be decided upon by the student and the advisor and then approved by all members of the SAC before the student begins writing. The actual hypotheses and objectives of the proposal should represent the student's own ideas.

The proposal should not be in an area directly related to the student's own dissertation topic, but can be in the same general area (e.g., physiology, disease resistance, bacterial genetics, virology, or epidemiology). The SAC and advisor should decide what is appropriate for each student. Specifically, the proposal should involve a significantly different biological (host/pathogen) system, and the student should avoid using essentially the same strategies and techniques that are part of his/her dissertation research.

The proposal should be prepared in a format similar to that used by USDA, NSF, SARE, or other competitive grant programs, as suggested by the SAC. Students generally should be given one or more example proposals to demonstrate the format and style of proposals for particular programs. The proposal should include a literature review, justification and experimental plan. Since few actual proposals are funded without preliminary results, the student may be allowed to
use hypothesized results, as justified, to narrow or focus the problem. The amount of research proposed should be equivalent to two calendar years or more.

Students should be instructed that the research questions (i.e., the objectives) are fundamental to the proposal and the foundation for a good proposal. Clearly written, well thought-out and testable hypotheses must accompany the objectives so that the student can demonstrate that he/she can design experiments with appropriate controls and use alternative approaches to testing the same hypothesis. The student should also demonstrate that he/she knows what prior preliminary results are sufficient to convince a grant review panel that the hypotheses are sound and the approach is feasible. Although much good research involves hypothesis building following careful and systematic data collection and analysis, this type of study is not necessarily a suitable proposal because the student can only propose to go on a “fishing trip.”

Although the preparation of the proposal is obviously “open book,” it should represent the sole work of the student. However, unlike other written examinations, the student is free to consult with others. The advisor and SAC members may give the student their feedback by pointing out strengths and weaknesses and suggesting readings, but they should refrain from directly telling the student what to write or specifying all the basic ideas in the proposal. No one, other than the student, may edit the proposal prior to submission to the committee.

After the proposal is submitted to the SAC, the members should decide within one week if it is acceptable. An evaluation form may be used by the SAC. If the proposal is acceptable, written feedback should be given to the student in the same manner as in the standard written exam to identify points that need to be corrected or improved, but not by “giving” the answers. If the proposal is unacceptable, the student should be notified by the SAC as to: 1) whether this is considered a failure of the written portion of the exam; or 2) whether he/she should revise or substantially re-write the proposal, after being given a general idea of how much more is expected. An acceptable proposal should be completed within the time allotted for the written portion of the examination. Additional time will not be given to revise the proposal. If 4 weeks are given to write the proposal, and the student submits the proposal after 3 weeks, he/she could be given a week to modify the proposal after the SAC committee members review it if a modification option was originally specified by the SAC and the SAC decided that modification was required for a passing grade. If the proposal was submitted on the last day of the allotted time, no further revisions will be allowed. If the student fails the written exam, it is the decision of the SAC as to whether or not the student can take the examination again. If a new written examination is given, the advisor and SAC will decide on the type of written exam.

**The Oral Examination for the Research Proposal Option.** The written research proposal should serve as a starting point for the questioning and a “springboard” to examine the breadth and depth of the student’s knowledge of topics introduced in the proposal. The student may take a **maximum of 10 minutes** to summarize the proposal or respond to written comments/criticisms by the SAC before the commencement of questions. In addition to defending the experimental
plan itself and addressing specific errors or omissions flagged by the SAC, the student is expected to answer questions concerning the theory behind the hypotheses and any techniques used, the significance of the topic, and any relevant biology. Questions are not limited to the proposal and in later rounds of questioning the SAC members may ask any type of question. A broad, well documented proposal will serve as a better basis for the oral examination than a narrow limited one, so the need for unrelated questions will vary on a case-by-case basis. It is important that the SAC ascertain that the candidate has mastered a sufficient body of knowledge and is prepared for independent research. It is suggested that the first hour of questioning should be related to the proposal, and the second hour should allow questioning on a broader topic area.

The student should be familiar with 8000-level course material and current literature related to the proposal topic (in the broad sense) and be able to discuss the major concepts from 4000 through 8000 level courses in plant pathology and related areas. However, the amount of detailed general information that the student is expected to recall and the amount of time spent on this type of questioning would not be as great as in a standard comprehensive examination.
APPENDIX IV
List of Department and Graduate School Forms and Publications

Plant Pathology - Forms
Plant Pathology forms can be obtained from the Academic Program Coordinator or on the department intranet: plantpath.osu.edu/intranet/grad (password and username required)

Form I Graduate Program Requirements
Form II Results of Master’s Examination and Recommendation to Continue to the Ph.D. Degree
Form III Graduate Student Evaluation and Goal Setting Form
Form IV Graduate Student Accomplishments
PLNTPTH 8901 - Mentored Teaching Form

A pdf file of this handbook is available on the Department of Plant Pathology website: plantpath.osu.edu/graduate/grad-handbooks

Graduate School - Forms and Publications

Forms that are submitted by the student online (gradforms.osu.edu)
Application for Candidacy
Application to Graduate
Application for Final Exam
Delay of Final Document
Report on Candidacy
Report on Final Examination
Report on Final Document
Minors and Interdisciplinary Specializations
Specialization
Transcript Designation Request

Graduate School website resources
Career Development Resources gradsch.osu.edu/pursuing-your-degree/career-development

Preparing Future Faculty Program Application
   Versatile Ph.D. (online community for non-academic careers)
   GATA (Graduate Associate Teaching Award)
   Three Minute Thesis
   Hayes Graduate Research Forum
   CIC Traveling Scholar Program
   Career Counseling and Support Services
   Alumni Fire (online alumni networking)
   Buckeye Careers
AGGRS (Alumni Grants for Graduate Research and Scholarship) Application
Alumni Grants for Graduate Research and Scholarship Guidelines
CIC Traveling Scholar Application
Graduate Associate Teaching Award (GATA) Guidelines

Research Resources gradsch.osu.edu/pursuing-your-degree/research-resources
  Research Commons
  Edward F. Hayes Graduate Research Forum
  University Libraries
  Office of Research
  Copyright Resources Center
  Funding Opportunities
  Graduate Student Code of Research and Scholarly Conduct
  General Research and University Policies
  Training for Researchers
  Ohio Union Activities Board

Social, Wellness and Student Life gradsch.osu.edu/pursuing-your-degree/social-wellness-student-life
  Council of Graduate Students
  Student Organizations
  Office of Diversity and Inclusion
  Scarlet and Gray Financial
  Suicide Prevention
  Counseling and Consultation Service
  Student Wellness Center
  Fitness and Recreation Sports
  Arts and Culture
APPENDIX V
Resource Information

Student Conduct, including academic and research misconduct
• Code of Student Conduct
  studentaffairs.osu.edu/csc/

• Student Conduct, Office of Student Life (formerly Student Judicial Affairs)
  studentconduct.osu.edu

• Office of Academic Affairs, Committee on Academic Misconduct
  oaa.osu.edu/coam.html

• University Policy and Procedures Concerning Research Misconduct
  orc.osu.edu/files/Misconduct_Policy.pdf

• Guidelines for the Review and Investigation of Allegations of Scholarly Misconduct by Graduate Students - available from the Graduate School, 250 University Hall, Columbus

• Drugfree Workplace Policy
  hr.osu.edu/public/documents/policy/policy730.pdf

Research Policies and Resources
• Office of Research
  research.osu.edu

• Office of Sponsored Programs
  osp.osu.edu

• Responsible Conduct of Research
  orrp.osu.edu/irb/training-requirements/rcr/

• Technology and Commercialization Office, including policies and guidelines related to patents, copyrights, conflicts of interest, plant varieties, consulting, entrepreneurship, intellectual property, and technology transfer
  tco.osu.edu/

• Human Subjects, Office of Responsible Research Practices, Institutional Review Board
  orrp.osu.edu/irb/

• Animal Care and Use, Office of Responsible Research Practices, Institutional Animal Care and Use Committee (IACUC)
  orrp.osu.edu/iacuc/

• Biosafety, Office of Responsible Research Practices, Institutional Biosafety Committee
  orrp.osu.edu/ibc/

• Conflict of Interest, Office of Research Compliance
Student Records and Privacy

• The Ohio State University’s Policy Concerning Privacy and Release of Student Education Records, Family Educational Rights and Privacy Act (FERPA)
  registrar.osu.edu/policies/releaseinfo.asp

Policies (Human Resources)
  hr.osu.edu/policies-forms

Information Technology Policies and Services

• Office of the Chief Information Officer
  cio.osu.edu

• Responsible Use of University Computing and Network Resources (PDF) and Frequently Asked Questions
  ocio.osu.edu/policy/policies

University Libraries
  library.osu.edu

Disability Policies and Resources

• Office for Disability Services
  slds.osu.edu/

• Equal Employment for Individuals with Disabilities, Policy 4.45
  hr.osu.edu/public/documents/policy/policy445.pdf?t=2014819212445
APPENDIX V
Graduate Advising Best Practices

From: Graduate School Handbook, Appendix F

Graduate Advising Best Practices

Overview

Section F.1
F.1.1
Graduate advising is best understood as a relationship between graduate student and faculty advisor where both parties can expect that the other party will follow best practices in fulfilling his or her responsibilities as graduate student or advisor.

The relationship between a graduate student and advisor is one that can have a great impact on the academic achievements and life of a graduate student. This relationship can greatly encourage the academic pursuits of the graduate student, proving to be one of the most influential interactions of the scholar’s life. A relationship in which mutual expectations are not understood, however, may diminish a graduate student’s potential.

This document outlines the minimum expectations for best practices in graduate advising at The Ohio State University. It is meant to be a spring board for each graduate program to discuss, develop, or reevaluate its local advising expectations and practices. This document was created in 2012 by the Council of Graduate Students in consultation with the Graduate School and approved by the Graduate Council.

Communication and Graduate Advising

Section F.2
F.2.1
Regular and clear communication is essential to good graduate advising. It is recommended that as much communication as possible occur in person or over the phone to enhance clarity, reduce ambiguity and misunderstanding, and to resolve conflict. Written communication, e.g. via mail and e-mail, is appropriate, especially to document situations and potentially contentious issues. Problems that arise should be addressed immediately and clearly so that both parties can work to remedy issues in an expedient manner. Graduate students and advisors should recognize that social media can blur the line between professional and personal lives and should be used only if deemed appropriate by both parties.
Graduate Student Responsibilities
Section F.3
F.3.1
• Conduct academic pursuits in an ethical manner and develop professionally
  o uphold Ohio State’s Code of Student Conduct
  o pursue opportunities that advance career as a graduate student and beyond
• Take ownership of academic progress
  o devote significant and productive time toward degree completion
  o stay abreast of requirements for degree completion through active and regular discussions with advisor
  o communicate career goals and concerns related to academic progress clearly
  o initiate communication with the advisor
• Respect the responsibilities of the advisor
  o maintain open communication with advisor
  o allow sufficient time for the advisor to provide feedback in advance of deadlines
  o maintain professionalism by keeping up with graduate student responsibilities even when advisor is not present

Graduate Advisor Responsibilities
Section F.4
F.4.1
• Conduct advising in an ethical manner, including when recruiting advisees
  o Communicate clear intentions, expectations, and requirements to potential and current advisees, including how long the advisor expects to stay in his or her current position and the amount of funding support available to advisees
  o Address problems immediately so both parties can remedy issues expediently
  o Maintain communication and interact with graduate students in a professional manner
Communicate clear expectations for time to degree completion and publication expectations

Provide periodic and regular evaluations of progress toward degree

Provide timely written feedback on advisee’s professional writing (article drafts, dissertation chapter drafts, etc.)

Give students appropriate credit for their work, e.g. as reflected in author strings in journal articles or books

- Aid in preparing students to be the best professional they can be
  - Initiate conversations about academic progress and stay current about degree requirements and procedures
  - Initiate conversations with advisee about career goals
  - Support traditional and non-traditional career goals
  - Help graduate students develop professional skills that will make them competitive for employment in their given field
  - Encourage students to take part in activities that will enrich their academic development, e.g. by participating in professional conferences and other networking activities

- Respect advisees’ academic and non-academic commitments and responsibilities
  - Provide prompt and honest feedback on student’s work
  - Allow reasonable time for students to prepare requested materials
  - Do not require that a student continue to provide a service (e.g. teaching, laboratory management, mentoring of other students, etc.) under terms that can hinder a student’s degree completion

**Graduate Program Responsibilities**

Section F.5

F.5.1

- Establish graduate advising best practices that pertain specifically to the local graduate program and its graduate degrees

- Maintain a graduate program handbook, including the steps and processes for students to complete degree requirements and grievance procedures for graduate students and advisors
• Create and maintain an easily accessible online list of information for graduate students that contains links to the Graduate School Handbook and other relevant university resources

• Provide yearly written review of performance for graduate students and advisors

• Maintain clear communication with students and advisors

• Hold a yearly orientation to familiarize new students and faculty with the graduate program and the university