GRADUATE STUDENT HANDBOOK

DEPARTMENT OF PLANT PATHOLOGY

Plant Pathology Graduate Students at department picnic, August 2013
To All Graduate Students in Plant Pathology:

It is my pleasure to welcome you to the Department of Plant Pathology and Washington State University! You are joining a department with a distinguished history of excellence in teaching, research and extension. The second Ph.D. degree awarded by Washington State University was by this department! Over the years the department has awarded approximately 145 M.S. degrees and 171 Ph.D. degrees.

Information provided in this handbook is intended to help you during your stay at WSU. I encourage you to read it carefully and familiarize yourself with various rules, regulations and procedures pertaining to the graduate program in our department.

We, at WSU, strive to provide and sustain an atmosphere of a sense of belonging, mutual respect and a collective belief and conviction to strive for excellent in whatever we do. I encourage you to join this collective endeavor. If you have any questions or are unclear about something, please ask the departmental staff and/or your major professor.

We are committed to helping you succeed in your graduate program and achieve your professional goals. If I can be of assistance in anyway, please do not hesitate to contact me. I am available by email and phone, or to meet with you in person.

I encourage you to make every effort to meet with your fellow graduate students, and all faculty and staff as soon after your arrival as possible. Please make sure that you visit the departmental web site (http://plantpath.wsu.edu). It has a wealth of useful information including faculty, staff and student listings, and information on current happenings in the department. We offer numerous professional development opportunities and chances to network both at work and in social settings. I encourage you to take advantage of these and I expect your active participation.

If you have questions or need assistance, do not hesitate to contact me (scot_hulbert@wsu.edu). I wish you all the best.

Sincerely,

Scot Hulbert, Ph.D.
Chair
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INTRODUCTION

The **purpose of this handbook** is to clarify requirements of the Department of Plant Pathology that co-exist with those of the Graduate School. This handbook is not intended to replace the *Graduate School Policies and Procedures* (GSPP) nor any other University document. Each graduate student should read the GSPP, the Guidelines for *Good Practices in Graduate Education* and the *Graduate Student Code of Rights and Responsibilities* along with the Plant Pathology Graduate Handbook in order to understand the requirements set forth for graduation both by the Graduate School and the Department of Plant Pathology. When the Department regulations are stricter than those of the Graduate School, the Department regulations take precedence.

*Excerpt from GSPP, Chapter 1.E:*

The **graduation requirements** of the Graduate School, which must be met for completion of a graduate degree program, are those published in the Policies and Procedures of the Graduate School in effect at the time of the student’s initial admission as a regular or provisional student. Departmental requirements are those in effect at the time the student files a program of study. If a student is dropped from the University for failure to maintain continuous enrollment, the requirements of the Graduate School are those in effect at the time of re-admission to the Graduate School. Modification of certain aspects of Graduate School policy may be necessary to conform to legislation enacted by the Washington State Legislature.

Please visit the **Plant Pathology website** located online at [http://plantpath.wsu.edu/](http://plantpath.wsu.edu/) for updated information pertinent to the Department.
THINGS TO DO UPON ARRIVAL

Check-In

Check in at the Johnson Hall Graduate Center (JHGC) with Deb Marsh and Lisa Lujan (Johnson Hall 131).
- Map of the university—ask us if you’d like one! Maps can also be obtained at WSU Visitors Center or WSU Parking Services.

Check in at the main departmental office (Johnson Hall, Room 345).
- Introduce yourself to Cheryl Hagelganz, Administrative Manager
- Receive desk assignment from Cheryl.
- Obtain from Cheryl any necessary keys for building, lab, office and greenhouse (optional) NOTE: Some keys require your major professor’s approval by email.

New Student Checklist

Review once again the New Student Checklist to ensure all items are complete and understood. If you have questions after your review, please contact Deb or Lisa.

- IMPORTANT: Pay particular attention to residency requirements and restrictions. Out-of-state waivers for domestic students are only guaranteed for one year. Most items need to be in place for one year, so it is important to take the necessary steps now to ensure a successful WA residency application at the 1 year mark. Review the information here: http://www.registrar.wsu.edu/Registrar/Apps/Residency.ASPX

Important IMMEDIATE steps to establish your residency:
- Change your vehicle registration to Washington State
- Change your driver’s license to Washington State (even if you do not drive).
- If you do not have a driver’s license in another state, have you applied for a Washington State ID card?
- Establish proof of independence documentation, such as income tax return or permanent full-time employment
- Keep copies of your lease agreement, utilities, phone bills, etc.
- Register to vote in Washington.
- Make sure all supporting documentation is updated to a Washington address, such as bank statements, utility bills, etc.
- Keep your mailing address updated

Employment Preparation Documents

If you have a paid assistantship, you will also need to complete the following items on or before your first day of employment. Please see Elizabeth Engriser in the Johnson Hall Business Center (JHBC; Rm 201) to do this. Students beginning at the R&E center will need to contact the R&E Center’s main office for assistance).
• **I-9 Forms** – must be completed on or before the first day of employment.

• **W-4 Forms**

• **Automatic payroll deposit is recommended.** The form is available from the Business Center, or the Payroll Office in the French Administration Building, or online at: [http://www.wsu.edu/payroll/stntpay/stntpay.htm](http://www.wsu.edu/payroll/stntpay/stntpay.htm). You will need a deposit slip from your bank account.

• To receive a copy of your Personnel Action Form (PAF), contact Elizabeth Engriser in the JHBC (Rm 201).

**Social Security Numbers**

If you do not have one, a social security number needs to be obtained as soon as possible (if you are employed by WSU). There is a special Social Security application session at the International Student Orientation session (Bryan Hall) in the week prior to the first day of instruction (both Fall and Spring semesters). Check the Orientation schedule for exact date and time of the session. **DON’T MISS THE SESSION!!!** You are required to present a letter that verifies your WSU employment, as well as bring photocopies of your DS2019, I94, VISA, and Passport. The JHGC will arrange the employment letter be waiting for you at the session in Bryan Hall. **Students beginning at the R&E who do not have a social security number should contact the R&E office staff for assistance in getting one.**

If you miss the session, you will likely miss your first paycheck, and also have to drive to the Lewiston Social Security office to apply (2 hour drive, round trip), which is open all year Monday-Friday, 9:00 am-4:00 pm. They are located at 1617 19th Avenue in Lewiston, Idaho. Their phone number is (208) 746-2995 or 1 (800) 772-1213. It is not easy to get past the voice message to a real person on the 746 number. The on-line address is [http://www.socialsecurity.gov/forms/ss-5.pdf](http://www.socialsecurity.gov/forms/ss-5.pdf) and gives you information on filling out the form, printing it, and where to send it.
GENERAL INFORMATION

Address Change
You can update your address by going to http://zzusis.wsu.edu. Paychecks will not be forwarded. International students: Know the SEVIS rules. Failure to update your new address within 10 days of moving can get you deported.

Bulletin Boards
The large bulletin boards (between rooms 346 and 348) list seminar notices, fellowship announcements, organizational brochures, etc. The small board (between rooms 348 and 350) is for official use only: for safety and other important notices. Please ask for permission before posting anything on these boards. The bulletin boards in the hall adjacent to the student carrels are for graduate student related use only. Scholarship opportunities are posted on the board above the telephone in room 337.

Child Care Center
Full- and part-time child care for 6 weeks to 12-year-old children; call 335-8847. Child Care Resource & Referral Services offers information to all center and family day care homes in Whitman County, call 335-7625, or visit The Children’s Center, Room 108.

Computing and Data Networking
Follow the link for instructions on how to set up the printer and how to set up your wireless connection.

Compton Union Building (CUB)
Please visit their website for a list of amenities including wireless internet access, increased student meeting space, an upgraded & relocated home for the Student Book Corporation (Bookie), and a multitude of new vendors. Should you need further assistance, please call 335-9444.

Counseling Services
The WSU Counseling Services office offers free and confidential assistance to students with personal, social, and vocational problems. Stop by Lighty Student Services Building, Room 280, call 5-4511, or visit their website.

If you have a crisis situation after regular office hours, call: (509) 335-2159.

Copier and Printing
The copier in room 347 is for office and faculty use. Copy and print work must be related to assigned research projects. With permission of your major professor you will be assigned a number code that allows you to operate the copy machine. **The copier is not to be used**
for copying class notes, articles, or books used for study purposes. Under no circumstances should the copier in Johnson 347 OR any of the student printers be used to duplicate your thesis or dissertation. There are copy machines available at Cougar Copies (CUB Rm 80), Coug Prints and at Kinkos Copies.

**Departmental Office**

The main office of the Department of Plant Pathology is located in Johnson Hall 345. Office hours are: 8:00 a.m. - 12 Noon & 1:00 p.m. - 5:00 p.m (Monday-Friday).

**Email**

Review the information on the Information Technology website to learn about your WSU email.

**Equipment**

Equipment should not be moved without permission of the person in charge of the equipment.

**Facilities**

The department provides laboratory, greenhouse, and field plot facilities to conduct research. These are generally assigned by research projects and are under the supervision of the project leader who may also function as the major professor. Students should arrange for the use of such facilities through their major professor.

**Orville A. Vogel Plant BioSciences Building (PBS)**

Those students working in the Vogel Plant BioSciences Building labs which are located in Orville Vogel PBS need to see Cheryl once they have obtained a Cougar Card in order to activate their access to the facility.

**C. Gardner Shaw Mycological Herbarium**

The department maintains one of the most comprehensive mycological herbaria in the U.S. This is located in the new Orville Vogel Plant Biosciences (PBS) Building in Rooms B6 and B8, and is curated by Professor Jack D. Rogers. Those wishing to use this resource should consult with Dr. Rogers and/or Dr. Carris.

**Owen Science Library**

A comprehensive plant pathology library was recently incorporated into WSU’s Owen Science & Engineering Library on the 2nd floor. This is administered by personnel of the University Library system and conducted under the same policies as the central library. It includes a plant pathology collection of over 70,000 reprints collected by personnel of this department over many years.
**Media Center**

The department maintains equipment for digitizing and editing images from photographic slides and printed materials for seminars, presentations at meetings, posters, publications, and Internet applications. A network is established for the transfer of digitized images to personal computers that allows the majority of preparation of a presentation to be completed in the researcher’s office. Our classrooms are equipped with projection equipment for full multimedia presentations. Mike Adams is in charge of scheduling, training, and general supervision of this facility. Its use is limited to working days and hours.

**Outlying Experiment Stations**

The faculty and research-teaching facilities at Pullman, as well as some at the outlying experiment stations (Prosser, Puyallup, Wenatchee, and Mt. Vernon), are all part of the department. Students at Pullman are encouraged to visit the experiment stations and become acquainted with the plant pathologists conducting research or teaching classes at the stations. Students are likewise encouraged to visit with experiment station faculty on the frequent occasions when they come to Pullman to lecture or present seminars.

**Photographic Laboratory**

The department provides a photographic darkroom to be used by the faculty, staff, and graduate students for research and teaching functions. Mike Adams is in charge of scheduling and general supervision of this facility. It is not to be used until proficiency is established with the major professor. Individual researchers supply film and chemicals. *This facility is not for personal use.*

**Reprint Library**

The department maintains a reprint collection that contains reprints published by WSU plant pathologists. The reprints are catalogued alphabetically by first author, and then by year under the author’s name. Where only limited numbers of reprints are available, please consult with the Program Coordinator before taking one. *Please do not take the last available reprint.* You may make a copy of the last reprint.

*Reprint Request Cards:* These preprinted post cards are stored in the copy/storage room in Johnson Hall 347. They are used to order reprints by mail. To ensure proper delivery, include your name above the department’s return address - this is often used as the return-mailing label for your reprint.

**Thesis Library**

M.S. and Ph.D. theses of departmental alumni are in the main office and may be checked out. Please check with the Program Coordinator in the office. All M.S. and Ph.D. students are required to submit a hardbound copy of their thesis and/or dissertation upon completion of their degree.

**Insurance**

Graduate students on a paid assistantship are automatically enrolled in the Graduate Student Health Insurance Medical Plan (including dental). Effective dates for this plan are 8/16-
12/31 for Fall appointments, and 1/1-8/15 for Spring appointments. No premiums are deducted during the summer months if the policy was in effect during spring semester. International students not eligible for the aforementioned plan, will automatically be enrolled in the iSHP health insurance plan and are responsible for the premium. Likewise domestic graduate students not eligible are invited to review the HWS website for other available options and will be responsible for the related premiums. Health cards, plan information and effective dates can be found at the Health & Wellness Services website.

Dependents such as spouse and/or children may be added to the insurance policy but the student is responsible for the additional premiums. If premiums are being paid for a dependent, spring semester rates will be higher than fall semester rates because of the summer coverage.

For student health needs covered by Health and Wellness, an appointment can be made by calling 335-3575. Health and Wellness facilities are located in the Washington Building on the WSU campus (intersection of Stadium Way and Nevada & Washington Streets). Unfortunately, at the beginning of the term, it sometimes takes a week or two for services to align in WSU systems, depending on a number of situations. If you need medical attention and your health card is not yet available, please contact Merry Lawrence (509-335-5293) at Health and Wellness services. Explain your situation, graduate assistantship appointment etc. and she can arrange a visit for you.

The PASS Program enables spouses or partners of eligible graduate/professional students (Pullman campus only) to access health care services available at Health and Wellness Services (HWS). The PASS Program is not a substitute for health insurance.

**International Programs/SEVIS Information**

The International Programs Office of International Students & Scholars/Global Services (OISS) is located in Bryan Hall, room 108, phone (509) 335-4508, or email them at: oiss@wsu.edu. **Students are responsible for maintaining their legal status within the country.** If there are any changes to a student’s I-20, that student is responsible for reporting the change to the JHGC and JHBC.

All SEVIS information, including required entry and departure documents, is available through the International Programs office.

**Mail – U.S. Postal Service**

Students are assigned a mailbox here in the department. Please check your mailbox frequently as the office staff puts phone messages and important notices in your mailbox as necessary. Mail is picked-up and delivered on weekdays at approximately 11:30 a.m. There is a basket in the office for outgoing USPS mail and a plastic WSU mailing services tub for interdepartmental mail. All USPS mail must have the departmental return address on the envelope. International mail over 1” thick or over 1 lb. must have a green customs sticker attached. When sending interdepartmental mail, you must use a four-digit campus zip code, which can be found in the campus phone directory, our four-digit code is 6430.
Pre-paid and/or pre-addressed envelopes must also be stamped with Department of Plant Pathology address in the return area.

**No personal mail should be sent to or from your university address.** There is a USPS mail drop box across the street in front of the French Administration building. Personal mailboxes are available only at the Post Office located on Grand Avenue. The U.S. Postal Service sorts mail electronically. For the quickest delivery, the complete address should be in capital letters with **no** punctuation. Mail sent to you at the department should be addressed as follows:

YOUR NAME  
DEPARTMENT OF PLANT PATHOLOGY  
WASHINGTON STATE UNIVERSITY  
P O BOX 646430  
PULLMAN WA 99164-6430  

*Note: Please do not include Johnson Hall or a room number.*

**Mail – United Parcel Service (UPS)**

If you are receiving a package via United Parcel Service, the sender should address the package as follows:

YOUR NAME  
345 JOHNSON HALL  
100 DAIRY ROAD  
PULLMAN, WA 99164

**Mail – Federal Express**

The JHBC sends out Federal Express packages. Be sure your packages are completely prepared for mailing. If you have any question, please see the Business Center for assistance. Federal Express envelopes and pouches are available in the JHBC.

If sending a box it should be weighed and measured. A scale is available in the Department’s main office.

**NOTE:** Any packages shipped via Federal Express or UPS must have a completed Shipping Request form. You can obtain this form at the JHBC. **ANY** shipments must be completed by 11:00 a.m.

**Microscopes**

The department maintains a number of microscopes for its teaching program. Please consult with research technologist Mike Adams before microscopes are used for any purpose or moved.

**Motor Pool Vehicle**

WSU Motor Pool vehicles are to be used for approved business travel. Requests are made through the JHBC and should be placed early to ensure availability. A valid driver’s license
is required along with your supervisor’s permission and budget code numbers for the use charges. Questions can be directed to the JHBC. The use of personal vehicles is an exception to policy and must be justified and approved in advance.

**Network ID**

To obtain a Network ID, visit the [Information Technology website](#) for information and follow the link to create your Network ID (you will need your WSU ID number for this).

**Notary**

Notary services are available at the Office of the Dean of Students, located in French Administration Building Room 134.

**Office Equipment**

Equipment in the main office, except for the fax machine, is for use of the office staff only.

**Office Supplies**

Office supplies are intended for teaching and research only and should be requested from the office staff. They are not supplied for personal use.

**Parking Regulations**

Parking regulations are enforced every day, 24 hours a day, all year. If you have a car and intend to park on campus, you need to purchase a parking permit. You should also pick up and read the Parking Rules pamphlet. Permits and pamphlets are available at [WSU Parking Services](#) located on the corner of Colorado and D Street. Phone: (509) 335-PARK.

**Payroll Deductions**

Graduate students on assistantships may authorize Payroll Services to deduct the total amount of their tuition and fees owed over eight (8) pay cycles beginning the second pay date of the semester. Deductions may be authorized for 1) full operating fee or residual operating fee, 2) service/activity/building fees, and 3) spouse and/or dependent medical insurance (fees vary). Payroll deduction is an optional service provided at a fee of $8.00. Online forms must be completed each semester and must be submitted before the last date to pay tuition before late fees accrue (to avoid paying late fees). The [payroll deduction service](#) is not offered for summer appointments.

**Photo Identification Cards - Cougar Card**

**NOTE:** This card is required to obtain access to the Vogel PBS building.

New students may obtain their Cougar Card in the [Cougar Card Center](#) located in the Compton Union Building (CUB), room 60. Returning students will continue to use their previously issued card. The Cougar Card Center is open from 8:00 a.m. to 5:00 p.m., Monday through Friday. A $10.00 replacement fee is charged for replacement cards. For any information or to report lost or found ID cards, call 335-CARD or visit their website.
Purchasing
The university makes purchases both on and off campus. Permission should be obtained from the faculty member whose budget you will be using before buying anything. Some type of purchase order is required before you make any kind of purchase. It is not appropriate to make a purchase and then request a purchase order. All order requests must be initiated using the online ordering system. POs are generally completed within 48 hours. The JHBC staff places and receives all orders from vendors outside of the Pullman area. Selected vendors on campus have blanket POs whereby a requisition number is used for transactions. The faculty member with whom you work can provide these numbers. All receipts should be submitted to the office. Your lab retains packing slips. You should plan ahead as much as possible for purchasing as variable circumstances such as shipping, product availability, and office staffing could delay receipt of your orders.

Registration
NOTE: see also the Academic Information section of this handbook. Registration is done online through your MY WSU portal. Go to: https://zzusis.wsu.edu, sign on using your Network ID and from there your zzusis portal page will appear and you can register. Please consult with your advisor before registering.

Registration from the first day of classes through the 10th day of classes will be assessed a $25.00 late fee. Those registering after the 10th day without prior approval of the Registrar’s office, will be assessed a $100.00 late fee. For a listing of available courses for the semester, please visit: http://www.schedules.wsu.edu

Student Recreation Center
The Student Recreation Center offers a wide range of activities, including intramural sports, fitness classes, weight training, track, pools and spa. Full-time students become automatic Student Recreation Center members with their payment of tuition and fees. For more information phone 335-UREC, see their website or visit their campus location on North Fairway Drive across from the university golf course. For information on the Palouse Ridge Golf Course, please visit their website

The Outdoor Recreation Center is located across from the student recreation center on North Fairway Drive. For questions regarding specific equipment, call 335.1892. The Outdoor Recreation program offers classes, information and equipment rentals for outdoor activities including camping, rock climbing and various water and winter sports.

Taxes
Questions about taxes should be addressed to the Payroll Office, Alice Smethurst, Tax Compliance Officer, French Administration Bldg, Room 240, or the International Programs Office in Bryan Hall. Professional tax consultants are available throughout the community as well.
**Telephones**

There are restricted telephones (Pullman, Moscow, and campus calls only) in the student carrels. It does not have access to “Information”. Any calls outside the local area should be made only for official business, with your major professor’s approval, and on his/her telephone when possible. For local calls:

- **Campus**: 5 – xxxx (last four digits)
- **Pullman/Moscow**: 7 and the 7 -digit phone number
- **Dial ‘7’ for an off-campus line, dial**

Calls to WSU Research & Extension Centers (using the ‘tie-line’):

- **Mount Vernon**: 8-6-xxx (last three digits)
- **Prosser**: 6-1-xxx (last three digits)
- **Puyallup**: 8-4-xxx (last three digits)
- **Wenatchee**: direct dialing, (long distance)

**Travel**

The department reimburses students for travel costs associated with their programs and approved by their advisors for travel lasting more than 12 hours. All arrangements should be made using the most economical accommodations available. Please follow the procedures as outlined below.

**Travel Authority**

A travel authority is required for any travel and *must* be completed prior to travel. Forms are available in the main office. A travel advance may be requested in order to help with anticipated expenses. An advance should be requested at least 2 weeks before travel begins. Conference registrations will be paid directly by the university if received at least 2 weeks before the registration due date. If registration payment requests are not received in time for the university to pay directly, the traveler will have to make the payment and will be reimbursed for the expense. Once your travel authority is approved, you can make airline reservations using local travel agents. Ask the agent to call Bev Brantner at the JHBC (335-3943) for approval to purchase the tickets. The university pays the airfare directly for you. *Tickets for approved travel may not be purchased through online sites.*

The JHBC can generate ‘Blanket TAs’ for routine/repeat travel, such as collecting data at research sites. Usually done for an entire fiscal year, you should list all the places where the routine travel occurs. For instance, you may have a blanket TA for doing field research at a particular site. This can save a lot of paperwork so use this method when you are able.

**International Travel Requirement**

The required *International Travel Registry* is an online registration system that provides WSU with a secure means of documenting international travel plans for undergraduate and graduate students participating in not-for-credit travel for WSU-related activities—including graduate research while enrolled in research credits.
Travel Expense Voucher (TEV)

Expenses are reimbursed up to a set amount for the travel destination. This is called the per diem rate. Check with the office for these rates prior to travel so you can plan your expenses. You will need original, itemized receipts for all lodging and any expenses over $50. If you share a room with WSU personnel, you will be reimbursed one-half of the room rate. A travel expense voucher (TEV) should be submitted by the fifth of the month following travel. If a travel advance is received, the TEV must be completed immediately upon return from travel. Reimbursements are generally received within three weeks of completing the TEV.

Please see the JHBC for answers to all your travel questions.

Typing

The office staff does not type letters, job applications, resumes, theses, seminar abstracts, manuscripts, etc. for students. You can access all Graduate School Program Forms on-line where you can complete the forms at your computer and then print them off.

Visitors

The department hosts several visitors throughout the year. Students are expected to actively participate and attend receptions, meals, and seminars for these visitors to the department. These events may be hosted in the evenings and on weekends.
ASSESSMENT AND LEARNING OUTCOMES

The Department of Plant Pathology is committed to providing a high quality graduate program at the M.S. and Ph.D. levels. The following Graduate Program Learning Assessment Plan includes a mission statement for the department and the broad objectives that define what we consider to be indicators of an effective graduate program. A variety of data will be collected and compiled annually to assess the graduate programs, and the plan for collection of these data is included in this document.

Please note that in addition to annual evaluations of each graduate student, we will also use a rubric for assessing performance on oral preliminary examinations (PhD) and final defense examinations (M.S. and PhD). Each member of the student's committee will fill out a rubric, and a copy will be maintained as part of the student's permanent file. Copies of the annual evaluation forms and rubric are included in the assessment document.

Plant Pathology Graduate Program Learning Outcomes Assessment [adopted June 30, 2008]

Overview:
The mission of the Department of Plant Pathology is to provide instruction, extension, and research directed toward all aspects of plant diseases, including causes, protection, prevention, and control, as they affect commercial crop and landscape plants in Washington and worldwide. The mission is accomplished by providing quality graduate education, conducting applied and basic research for the state and the scientific community at large, and disseminating information to the public through extension education.

The Department of Plant Pathology offers M.S. and Ph.D. programs. The Department has had a long-standing policy that a student must first obtain an M.S. degree before pursuing a Ph.D. degree. The primary reason for this policy is to insure that only students who are academically capable and prepared for in-depth research as evidenced by prior grades, courses, and research experience are admitted to the Ph.D. program. Moreover, most students entering the graduate program have a limited background, or no background, in plant pathology owing to the few undergraduate programs in the discipline in the nation and worldwide. However, in recognition that some students may display an unusually high aptitude for graduate study and research, the Department has developed a policy to describe circumstances under which a student may bypass the M.S. degree and proceed directly to the Ph.D. This policy is described in the Plant Pathology Graduate Student Handbook, which is updated annually and provided to all continuing and incoming students. The handbook is also available online at: http://plantpath.wsu.edu/students/department-student-handbook/

Objectives
To enable students earning the M.S. and Ph.D. in Plant Pathology to understand and apply the scientific method to plant pathological problems, to develop critical thinking and professional skills needed for successful careers in the public and private sectors at a national
and international level. In addition, students earning the Ph.D. will conduct novel research in an independent manner (i.e., with limited input from their major advisor) and be able to interpret and write up their research for publication in peer-reviewed journals.

To maintain a leadership role in plant pathology and related disciplines at the state, national and international levels.

Requirements
For the M.S. degree, students are expected to fulfill all of the academic requirements of WSU, present two seminars (PlP 515) to the Department of Plant Pathology, attend the weekly departmental seminar series during the academic year to learn about plant pathology research and other issues outside of their thesis project, conduct research, and prepare and defend an acceptable thesis under the direction of their major advisor and advisory committee in an oral examination.

For the Ph.D. degree, students must fulfill all of the academic requirements of WSU for the Ph.D. degree, present two seminars to the Department of Plant Pathology (PlP 515), pass an oral preliminary examination after completion of the majority of their coursework, and conduct independent, original research and prepare an acceptable dissertation with oversight and advising from their major advisor and advisory committee. Successful defense of the dissertation in an oral examination is required.

Outcomes for each of the program’s objectives are:
To enable students earning the M.S. and Ph.D. in Plant Pathology to understand and apply the scientific method to plant pathological problems, to develop critical thinking and professional skills needed for successful careers in public and private sectors, the program provides training and coursework to help students develop the following skills:

- Understanding, interpretation and synthesis of scientific literature pertaining to plant pathology and related disciplines
- Formulating hypotheses; developing experimental designs to test these hypotheses; establishing and maintaining experiments
- Collecting data in an objective way and conducting appropriate statistical analyses
- Interpretation and presentation of research results in oral and written formats
- Presentation of research at professional meetings and local commodity meetings
- Publication of research in peer-reviewed scientific journals and other discipline-appropriate outlets such as commodity newsletters

To maintain a leadership role in plant pathology and related disciplines at the state, national and international levels, the program aims to:

- Attract, retain and train high quality graduate students.
- Place students earning the M.S. into positions including extension agents, state and federal plant pathologists, instructors at the community college level, support scientists in public or private sector research programs, and Ph.D. programs.
• Place students earning the Ph.D. as leaders of scientific research programs in the public or private sector including industry, and faculty positions at the University level.

Outcomes Assessment Plan
Data will be collected via several different mechanisms, including application statistics; annual review of graduate students (see attached document); an evaluation rubric (see attached documents) for oral preliminary examinations (Ph.D.), thesis defense examinations (M.S.), and dissertation defense examinations (Ph.D.); graduate student exit interviews with department chair; and job placement statistics. Data will be summarized in a report provided annually to the Graduate School. The means by which the specific outcomes will be assessed is detailed in the following table.
**Objective 1.** To enable students earning the M.S. and Ph.D. in Plant Pathology to understand and apply the scientific method to plant pathological problems, to develop critical thinking and professional skills needed for successful careers in public and private sectors.

<table>
<thead>
<tr>
<th>Outcome</th>
<th>Data</th>
<th>Source</th>
<th>Collected</th>
</tr>
</thead>
<tbody>
<tr>
<td>1a.</td>
<td>Understanding and interpretation of scientific literature pertaining to plant pathology and related disciplines</td>
<td>Course grades in plant pathology classes; rubric completed at oral preliminary exams and thesis/dissertation defense exams.</td>
<td>Faculty teaching plant pathology courses; thesis advisory committee members</td>
</tr>
<tr>
<td>1b-d.</td>
<td>Formulating hypotheses; experimental design; establishing and maintaining experiments; collecting data and conducting appropriate statistical analyses; interpretation and presentation of research results in oral and written formats.</td>
<td>Rubric completed at oral preliminary exams and thesis/dissertation defense exams; annual evaluations of graduate students</td>
<td>Thesis advisory committee members; major advisor</td>
</tr>
<tr>
<td>1e &amp; f.</td>
<td>Presentation of research at professional meetings(^1), publication of research in peer-reviewed scientific journals and other outlets appropriate to the discipline(^2).</td>
<td>Annual evaluations of graduate students</td>
<td>Major advisors</td>
</tr>
</tbody>
</table>

\(^1\) Meetings sponsored by professional societies, government organizations and commodity groups

\(^2\) Examples include trade journals, commodity newsletters, and conference proceedings
**Objective 2.** To maintain a leadership role in plant pathology and related disciplines at the state, national and international levels.

<table>
<thead>
<tr>
<th>Outcome</th>
<th>Data</th>
<th>Source</th>
<th>Collected</th>
</tr>
</thead>
<tbody>
<tr>
<td>2a. Attract, retain and train high quality graduate students</td>
<td>Application statistics (number of applicants, percentage of applicants accepted, GPAs of accepted students)</td>
<td>Plant Pathology Program Coordinator; Graduate School</td>
<td>Annually</td>
</tr>
<tr>
<td>2b. Place students earning the M.S. into positions discipline appropriate positions including Ph.D. programs.</td>
<td>Job placement statistics</td>
<td>Faculty advisors; exit interviews with Department Chair</td>
<td>Annually</td>
</tr>
<tr>
<td>2c. Place students earning the Ph.D. as leaders of scientific research programs in the public or private sector and academic positions.</td>
<td>Job placement statistics</td>
<td>Faculty advisors; exit interviews with Department Chair</td>
<td>Annually</td>
</tr>
</tbody>
</table>
Evaluation Rubric – Thesis or Dissertation Defense

PLANT PATHOLOGY EVALUATION RUBRIC: THESIS OR DISSERTATION DEFENSE

Candidate:_______________________________________ Degree:________________

Title:____________________________________________________________________
________________________________________________________________________

Evaluator:__________________________________________ Date:_________________

<table>
<thead>
<tr>
<th>Criteria</th>
<th>Poor</th>
<th>Competent</th>
<th>Excellent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Understands and is able to interpret scientific literature relevant to research topic</td>
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<tr>
<td>Demonstrates ability to independently formulate hypotheses, develop experimental design, establish and maintain experiments</td>
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<tr>
<td>Demonstrates ability to collect data and conduct appropriate statistical analyses</td>
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<tr>
<td>Demonstrates ability to defend research methodology and interpretation and to entertain alternative interpretations</td>
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<tr>
<td>Demonstrates ability to interpret and present research results in oral and written formats</td>
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<tr>
<td>Demonstrates ability to obtain funding to support professional travel and/or research</td>
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</tbody>
</table>

Comments:
**Evaluation Rubric – Oral Preliminary Exam**

**PLANT PATHOLOGY EVALUATION RUBRIC: ORAL PRELIMINARY EXAM**

Candidate: __________________________________________________________

Title: ___________________________________________________________________

Evaluator: ___________________________________________ Date: ___________________

<table>
<thead>
<tr>
<th>Criteria</th>
<th>Poor</th>
<th>Competent</th>
<th>Excellent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Demonstrates familiarity with and understanding of the primary literature relevant to the discipline</td>
<td></td>
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<tr>
<td>Able to synthesize knowledge from courses and primary literature and apply this to a novel research question</td>
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<tr>
<td>Demonstrates breadth of understanding of scientific principles outside of, but relevant to, the field of plant pathology</td>
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<tr>
<td>Demonstrates ability to answer questions pertaining to understanding scientific problems involving plant diseases, plant pathogens, and emerging methodology</td>
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<tr>
<td>Demonstrates ability to apply the principles and terminology of the discipline to a novel problem</td>
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</tbody>
</table>

Comments:
Graduate Student Annual Review for 2014-2015
Crop and Soil Sciences, Horticulture, Plant Pathology

The evaluation period for the annual review is May (or starting date) to May. Each student is responsible for completing Sections A and B, and then forwarding it electronically with a curriculum vita (CV) to their advisor in advance of the review meeting. The student is responsible for arranging the annual review meeting. The student’s advisor will complete Sections C and D and review them with the student at the annual review meeting. Both parties will complete Section E (if applicable). Annual reviews must be completed and submitted (including CV) to Debra Marsh, Academic Coordinator, by Friday, May 15, 2015.

This form must be typed

Section A

<table>
<thead>
<tr>
<th>Name:</th>
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<tbody>
<tr>
<td>Year Entered:</td>
<td></td>
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<tr>
<td>Degree Objective (MS or PhD):</td>
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<tr>
<td>Degree Program:</td>
<td></td>
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<tr>
<td>Advisor:</td>
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<td>Co-Advisor:</td>
<td></td>
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<tr>
<td>Campus Advisor (if applicable):</td>
<td></td>
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<tr>
<td>Other Committee Members:</td>
<td></td>
</tr>
</tbody>
</table>

| Number of committee meetings since last review: | Or anticipated filing date: |
| Date of most recent committee meeting: |                         |
| Program of Study approval date: |                         |
| Thesis/Dissertation subject title: |                         |
| Cumulative GPA: |                         |
| Seminar Date(s): |                         |
| Thesis/Dissertation proposal approval date: | Or anticipated filing date: |
| PhD Preliminary exam completion date: | Or anticipated prelim date: |
| What term do you anticipate finishing your degree requirements: |                         |
Section B. Self-Evaluation

Summarize your academic and research progress and plans. Please address the following items:
1. What academic/research goals did you propose to accomplish in your last review (not applicable for first year students)?
2. What have you accomplished since your last review?
   a. Discuss your academic and research progress
   b. Describe your publications to date. Please list published manuscripts and book chapters, manuscripts in preparation (and expected date of submission), abstracts (professional papers and posters presented).
   c. List professional activities such as awards/scholarships, meetings attended, abstracts/papers published, presentations given, and teaching experience.
   d. Discuss your departmental and professional stewardship.
3. What are your greatest challenges and how will you overcome them?
Discuss your future directions and goals as follows:
1. Overall.
2. For the next review period.

Section C. Advisor Assessment
Note to Advisor—be sure to also review the CV your student is required to prepare and provide with this review.

<table>
<thead>
<tr>
<th>Performance, Skill Ratings</th>
<th>Excellent</th>
<th>Good</th>
<th>Average</th>
<th>Fair</th>
<th>Poor</th>
<th>NA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Academic Performance</td>
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<tr>
<td>Research Performance</td>
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<tr>
<td>Work Habits</td>
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<tr>
<td>Technical Skills</td>
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<tr>
<td>Rate of Progress</td>
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<tr>
<td>Communication Skills</td>
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<tr>
<td>Teaching Performance</td>
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<tr>
<td>Overall Rating</td>
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</tbody>
</table>
Please provide an assessment of your student’s research progress and accomplishments for the current review period (or research potential for a first year student). Comment on the student’s strengths and weaknesses and provide specific recommendations or requirements on areas that need improvement. Consider the student’s understanding of the scientific literature, recent proposal defense (PhD), seminar performance, and other research benchmarks.

Outline specific conditions or expectations that must be fulfilled prior to the next review and discuss the student’s probable success in completing their degree requirements in a timely manner. If the probability is not good, please indicate why.
Section D. Recommendations

Overall Evaluation is ___ satisfactory or ___ unsatisfactory*

*If the evaluation is unsatisfactory, enrollment should be ___ continued or ___ discontinued
Conditions or recommendations for continued enrollment if evaluation is unsatisfactory:

Signature of Advisor: ___________________________ Date: ________________

Signature of Student: ___________________________ Date: ________________

My handwritten signature above acknowledges this evaluation has been discussed with me.

Section E. Certification of Assistantship Duties (If applicable):

Student: The graduate assistantship position that you have held during this past year and the related tuition waivers were contingent upon factors as outlined in your letter. By signing below you certify you have met the following contingent factors for the preceding semester(s) during which you held an assistantship.

(check all that apply: ___ Summer 2014 / ___ Fall 2014 / ___ Spring 2015)

- I remained enrolled full time (at least 10 [3 cr in summer] credits as defined in Graduate School policy manual, chapter 9) during the period of the appointment.
- I maintained a 3.0 cumulative GPA during the period of the appointment (or approved exception to policy)
- I met the service requirement of an average of 20 hours per week for 0.5 FTE as scheduled by my department/supervisor (or based on hours required for partial FTE appointment).

Student Sign ___________________________ Date ________________
Faculty Advisor/Supervisor Sign ___________________________ Date ________________

Each of you should retain a fully signed copy of the annual review prior to submitting the signed originals and CV to Deb Marsh by the May 15, 2015 deadline.

Comments on review by student (optional):
ACADEMIC INFORMATION

**Academic Calendar**
The Academic Calendar provides relevant deadlines for registration, fees, applications, enrollment, and exams.

**Academic Integrity**
As an institution of higher education, Washington State University is committed to principles of truth and academic honesty. All members of the university community share the responsibility for maintaining and supporting these principles. When a student enrolls in Washington State University, the student assumes an obligation to pursue academic endeavors in a manner consistent with the standards of academic integrity adopted by the university. To maintain the academic integrity of the community, the university cannot tolerate acts of academic dishonesty including any forms of cheating, plagiarism, or fabrication. Washington State University reserves the right and the power to discipline or to exclude students who engage in academic dishonesty. To that end, the university has established rules defining prohibited academic dishonesty and the process followed when such behavior is alleged. These rules incorporate Washington State University’s Academic Integrity Policy, the university-wide document establishing policies and procedures to foster academic integrity. This policy is applicable to undergraduate and graduate students alike, as it pertains to dishonesty in course work and related academic pursuits. In cases of dishonesty in research and original scholarship, the University’s Policy and Procedural Guidelines for Misconduct in Research and Scholarship may take precedence over the policies and procedures contained herein. More information regarding the rules governing academic integrity can be found at the Academic Integrity website.

**Catalog of WSU Courses**
The WSU Catalog is found only online. It is used by both prospective and enrolled students to inform them of the courses offered at WSU and the requirements for each degree. It also highlights the faculty research interests.

**Course Offerings in Plant Pathology (PL P): Description of Courses**
150 [BSCI] [Q] Molds, Mildews, Mushrooms: The Fifth Kingdom 3 A survey of the socio-historical impact of fungi and their role in development and application of the scientific method.

300 Diseases of Fruit Crops 2 Course Prerequisite: BIOLOGY 120, HORT 310, or HORT 313. Comprehensive understanding of the diseases of fruit crops grown in the state of Washington.

403 Advanced Cropping Systems 3 Course Prerequisite: HORT 202. Understanding the management of constraints to crop production and quality; biological, physical, and chemical approaches to crop health management. Field trips required. (Crosslisted course offered as CROP SCI 403, PL P 403). Recommended preparation: CROP SCI 305; PL P 429. Offered at 400 and 500 level. Cooperative: Open to UI degree-seeking students.
429 (Effective through Spring 2013) General Plant Pathology 3 (2-3) Classification, symptoms, causes, epidemiology, and control of plant diseases.

499 Special Problems V 1-4 May be repeated for credit. Independent study conducted under the jurisdiction of an approving faculty member; may include independent research studies in technical or specialized problems; selection and analysis of specified readings; development of a creative project; or field experiences. S, F grading.

501 Biology and Control of Plant Diseases 3 (2-3) Introduction to the biology and control of plant diseases covering disorders caused by fungi, viruses, bacteria, and nematodes.

503 Advanced Cropping Systems 3 Understanding the management of constraints to crop production and quality; biological, physical, and chemical approaches to crop health management. Field trips required. (Crosslisted course offered as CROP SCI 403, PL P 403). Recommended preparation: CROP SCI 305; PL P 429. Offered at 400 and 500 level. Cooperative: Open to UI degree-seeking students.

511 Viruses and Virus Diseases of Plants 4 (3-3) Course Prerequisite: MBIOS 503 or 504. Nature of plant viruses, vector-virus relationships and virus diseases of plants. Cooperative: Open to UI degree-seeking students.

513 Plant Nematology 4 (3-3) Anatomy and morphology of plant-parasitic nematodes, molecular plant-nematode interactions, genomics, symptoms, identification, techniques and control. Cooperative: Open to UI degree-seeking students.

514 Phytobacteriology 4 (3-3) Isolation and characterization of bacteria having a saprophytic, symbiotic or pathogenic association with plants, molecular structure, function, and genetics. Cooperative: Open to UI degree-seeking students.

515 Seminar 1 May be repeated for credit.

521 General Mycology 4 (2-6) The structure, life histories, classification, and economic importance of the fungi. Cooperative: Open to UI degree-seeking students.

525 Field Plant Pathology and Mycology 3 Diverse plant diseases, disease diagnosis and management in fields, orchards, nurseries; interact directly with diverse agricultural stakeholders. Field trip required. Recommended preparation: PL P 429 or PL P 521.

526 Advanced Fungal Biology 4 (2-6) Course Prerequisite: PL P 521. Advanced topics in fungal biology, ecology, systematics, evolution and coevolution via discussions of literature and special laboratory projects. Cooperative: Open to UI degree-seeking students.
535 Molecular Genetics of Plant and Pathogen Interactions 3 Genetic and molecular biological aspects of host-pathogen interactions. Cooperative: Open to UI degree-seeking students.


700 Master's Research, Thesis, and/or Examination V 1-18 May be repeated for credit. Independent research and advanced study for students working on their master's research, thesis and/or final examination. Students must have graduate degree-seeking status and should check with their major advisor/committee chair before enrolling for 700 credit. S, U grading.

800 Doctoral Research, Dissertation, and/or Examination V 1-18 May be repeated for credit. Independent research and advanced study for students working on their doctoral research, dissertation and/or final examination. Students must have graduate degree-seeking status and should check with their major advisor/committee chair before enrolling for 800 credit. S, U grading.
<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Name</th>
<th>Coop Status</th>
<th>Instructor</th>
<th>Credits</th>
<th>Fall 2014</th>
<th>Spring 2015</th>
<th>Summer 2015</th>
<th>Fall 2015</th>
<th>Spring 2016</th>
<th>Summer 2016</th>
<th>Fall 2016</th>
<th>Spring 2017</th>
<th>Summer 2017</th>
<th>Fall 2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>150</td>
<td>Molds, Mildews &amp; Mushrooms: The Fifth Kingdom</td>
<td>Carris</td>
<td>3</td>
<td>Not taught</td>
<td>X</td>
<td></td>
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<tr>
<td>300</td>
<td>Diseases of Fruit Crops (a/y)</td>
<td>Rayapati</td>
<td>2</td>
<td>X</td>
<td></td>
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<tr>
<td>403</td>
<td>Advanced Cropping Systems</td>
<td>Hulbert</td>
<td>3</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
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<tr>
<td>429</td>
<td>General Plant Pathology</td>
<td>Peever/Pappu-even yr Glawe-odd (2015)</td>
<td>3</td>
<td>X</td>
<td>X</td>
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<td>499</td>
<td>Special Problems</td>
<td>arranged</td>
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<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
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<tr>
<td>501</td>
<td>Biol/Control of Plant Diseases (On-line MS inAg)</td>
<td>Glawe</td>
<td>3</td>
<td>X</td>
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<td>X</td>
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<tr>
<td>503</td>
<td>Advanced Cropping Systems</td>
<td>WSU CoOp</td>
<td>Hulbert</td>
<td>3</td>
<td>X</td>
<td></td>
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<td>X</td>
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<tr>
<td>511</td>
<td>Viruses &amp; Virus Diseases of Plants</td>
<td>WSU CoOp</td>
<td>Pappu</td>
<td>4</td>
<td>X</td>
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<td>X</td>
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<tr>
<td>513</td>
<td>Plant Nematology (fna: Nematodes &amp; Nematode Diseases of Plants)</td>
<td>TBD</td>
<td>4</td>
<td>X</td>
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<td>X</td>
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<tr>
<td>514</td>
<td>Phytobacteriology</td>
<td>WSU CoOp</td>
<td>TBD</td>
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<td>X</td>
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<tr>
<td>515</td>
<td>Seminar</td>
<td>Okubara-Fall 2014 Murray-Spring 2015</td>
<td>1</td>
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<tr>
<td>521</td>
<td>General Mycology</td>
<td>WSU CoOp</td>
<td>Glawe</td>
<td>4</td>
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<td>X</td>
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<tr>
<td>525</td>
<td>Field Plant Pathology &amp; Mycology</td>
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<tr>
<td>526</td>
<td>Advanced Fungal Biology</td>
<td>WSU CoOp</td>
<td>Peever</td>
<td>4</td>
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<td>X</td>
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<tr>
<td>535</td>
<td>Molecular Genetics/ Plant &amp; Pathogen Interactions (a/y)</td>
<td>WSU CoOp</td>
<td>Hulbert '07-</td>
<td>3</td>
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<td>X</td>
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<tr>
<td>551</td>
<td>Epidem. &amp; Mgmt of Plant Dis. (was Diseases of Plants) (a/y)</td>
<td>WSU CoOp</td>
<td>Johnson</td>
<td>3</td>
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<td>X</td>
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</tr>
<tr>
<td>700/800</td>
<td>Research Credits</td>
<td>Advisos</td>
<td>V 1-18</td>
<td>X</td>
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<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>
Continuing Graduate Study after M.S.

If study beyond the Master's Degree is planned, the student must write a letter of application to the Department of Plant Pathology Graduate Admission Committee. If the student is recommended into the Ph.D. program, the Graduate School should be notified using the Plan and Degree Level Change Form from the Graduate School.

Degree Sought

A student with a Bachelor's degree will be considered as a candidate for the M.S. degree. The Department of Plant Pathology has had a long-standing policy that a student must first obtain an M.S. degree before pursuing a Ph.D. degree. In rare cases, a student may display an unusual aptitude for graduate study and research and be considered ready to proceed directly to a Ph.D. program without first obtaining an M.S. degree. Please see the Plant Pathology Department's By-Pass Option policy as follows:

By-Pass Option (Process and Requirements for a Student to Transfer to a Ph.D. Program without First Obtaining an M.S.)

The Department of Plant Pathology has had a long-standing policy that a student must first obtain an M.S. degree before pursuing a Ph.D. degree. The primary reason for this policy is to ensure that only students who are academically capable and prepared for in-depth research as evidenced by prior grades and research experience are admitted to the Ph.D. program. Moreover, most students entering the graduate program have a limited background, or no background, in plant pathology owing to the few undergraduate majors in the discipline, i.e. as contrasted with chemistry, etc. where entering students have undergraduate experience in the field. In rare cases, a student may display an unusual aptitude for graduate study and research and be considered ready to proceed directly to a Ph.D. program without first obtaining a M.S. degree. The purpose of this policy is to describe the circumstances under which a student may bypass the M.S. degree and proceed directly to the Ph.D. Only truly exceptional students will be considered for an exception to this long-standing policy of completing an M.S. degree first.

1. During the second year of graduate study, the student must submit in writing his/her desire to transfer to the Ph.D. program to his/her Major Advisor, with copies to the Graduate Coordinator, and the Department Chair. The request should include the reasons why the student believes she/he is ready to begin study toward the Ph.D. and bypass the M.S.

2. After initial discussion with and approval by the Department Chair, the major advisor will convene the student’s thesis committee to discuss the request. To be considered ready for transfer to the Ph.D. program, a student must:
   --- demonstrate evidence of significant progress in research during the first year of graduate study in which she/he is registered as an M.S. student, and
   --- demonstrate strong academic performance in graduate-level courses completed at WSU.
The totality of the student’s performance in course work, research and other professional activities must be considered by the committee. The committee will then vote; 75% of the committee, or unanimous if there are only 3 committee members, must vote in favor in order for the student to be recommended for the Ph.D. program.

3. The major advisor will submit in writing the committee’s recommendation to the Department Chair and the Graduate Coordinator describing the rationale for either recommending or denying the student’s request to bypass the M.S. The student will be notified in writing of the committee’s and Chair’s decision.

If the Department Chair concurs with the committee’s recommendation and the student is recommended for transfer to the Ph.D. program, he/she will be informed of the requirements to complete the transfer (see below). The Chair reserves the right to consult with other department faculty to seek input on the request.

4. When a student is recommended for transfer to the Ph.D. program, the Department Chair will appoint an ad-hoc committee composed of four members of the Plant Pathology faculty, not currently serving on the student’s M.S. thesis committee, to evaluate and make a final recommendation on whether the student should be advanced to the Ph.D. program.

5. The student must prepare a written Ph.D. research proposal and make an oral presentation of this proposal to the ad-hoc committee before the end of the third semester of the M.S. program. The student will then be expected to defend this proposal in a question and answer session with the committee following the presentation. The research proposal will be no less than 10 pages long and follow the USDA-NRI format. The oral presentation will be approximately 20 to 30 minutes long; all members of the ad hoc committee must be present, but the presentation will be open to all members of the Department. The presentation will be followed by questions from the ad-hoc committee and other interested faculty members that are not part of the student’s committee to determine if the student has mastered the basic concepts of Plant Pathology expected of a Master’s level student at the point of graduation. Total time for the presentation and oral questioning should be at least 2 hours. The ad-hoc committee will then vote. Three-quarters (75%) of the committee vote must be positive in order for the student to be recommended for the Ph.D. program. The Major advisor shall be able to provide direction to the student on the written proposal and presentation, but will not be present for the oral exam.

6. The student will be notified by the Department Chair of the decision of the committee. If the committee recommends the student for a Ph.D., he/she will be allowed to transfer to the Ph.D. program. The transfer will be complete upon submission and approval of the Ph.D. program of study. If the student is not recommended for a Ph.D., he/she will continue on to complete their M.S. program. Successful transfer from the M.S. to the Ph.D. program does not eliminate any of the requirements for the latter degree as described by the Graduate School or the Department of Plant Pathology Graduate Student Handbook.
**Enrollment**

All students must remain enrolled continuously unless they have applied (and been approved) for leave status. International students must be enrolled full time. Self-supported domestic students must be enrolled for a minimum of 2 graduate credits. If students are not continuously enrolled, and have not been approved for leave, they will have to reapply in order to finish their program. For further information, please see Chapter 5 of the Graduate School Policies and Procedures.

Students on assistantships must be enrolled full time (minimum 10 credits) with a recommended average of 10-12 credits per semester. Full-time students must enroll for at least one credit per semester of either PI P 700 or 800 during the spring and fall semesters.

Enrollment during the summer session is not mandatory. However, if a summer class is needed for a student’s program, a minimum of 3 credit hours is required to put the individual on appointment. Should the class be for 2 credit hours, a research credit hour may be used to make up the difference. All summer classes must be within the student’s program.

*Enrollment in any course not on the Program of Study must be approved by the student's major professor.*

Reduced Course Load (RCL) status *may* be an option for international students who are in their last semester of study in Plant Pathology if the student is either self-supported or on timeslip. Students on assistantships *cannot* apply for RCL. For additional criteria which must be met, please visit the RCL site and the Continuous Enrollment/Leave site at International Programs.

Plant Pathology students applying for RCL must:
1. Obtain the proper form at the International Programs Office;
2. Obtain the department chair’s signature/approval, along with the student’s advisor’s signature; and
3. Provide a photocopy to the JHGC for placement in the student’s file.

**Grades**

*700/800-Level Research Grades*

700-level credit is for students working on their master’s research, thesis and/or examination. The 800-level credit is for doctoral research, dissertation and/or examination. Credits are variable and grading is satisfactory/unsatisfactory (S/U). Credit is awarded for a grade of ‘S’; no credit is awarded for a grade of ‘U’. The S/U grade does not carry any quality points and is not calculated in the grade point average (GPA). *In the event of exam failure, a ‘U’ grade should be recorded for that semester’s 700 or 800 credits. Two ‘U’ grades for 700 or 800 credits will lead to dismissal from the program.* Faculty should set requirements for each semester that a student is enrolled in research credits, and provide an S/U grade at the end of the semester based on the student’s performance in meeting those requirements. In
extenuating circumstances, faculty may use the ‘X’ grade to indicate continuing progress toward completion of those requirements. The ‘X’ grade should be changed when the faculty member determines that the student has successfully met the requirements for that semester; the ‘X’ grades should be changed by the faculty no later than the semester of the final defense. Generally, students enroll in a minimum of 2 credits of the appropriate 700/800 level in the semester in which they take their final oral examination.

Incomplete Grades

Students will have up to one year (unless a shorter time is specified by the instructor) to complete work for which they received an ‘I’ grade; after one year the ‘I’ grade will become an “F” if not completed.

Good Practices in Graduate Education

Found here, these guidelines provide a code of ethics to be used in creating successful practices for faculty and graduate student interaction. These Guidelines should be read and followed by all students and faculty.

Graduate School Policies and Procedures (GSPP)

Referenced frequently, the Graduate School’s Policies and Procedures manual serves as a guide to students, faculty and staff to insure that proper advising occurs leading to the completion of a graduate degree.

Schedule of Classes

In addition to ZZUsis, the web version of the Schedule of Classes (SOC or Time Schedule) lists times and places for all courses offered each semester. Students may find this version easier to surf.

Seminar

Seminar is scheduled every Monday at 4:10 PM. All students are expected to attend all seminars unless there is a course conflict. Course conflicts must be approved by the major professor.

Seminar Abstracts (PL P 515)

Each Plant Pathology Graduate Student must enroll in Seminar (Pl P 515) twice for their degree. See Degree Requirements. Effective for students entering Fall 2011 and thereafter: both seminars must be on topical subjects other than the student’s dissertation, which have been approved by the faculty member directing seminar for that particular semester. Seminars must be presented from the Pullman campus.

Seminar abstracts should be sent electronically to Cheryl Hagelganz (chagelganz@wsu.edu) 10 days prior to your seminar in final form for duplication and distribution; the student must
also indicate in the message to Cheryl that it has been approved by both advisor and PLP 515 course instructor. The following steps will help you with preparation of the abstract:

Write the abstract using the standard format as described in the current year Phytopathology. Please be sure to include course name and #, place, date, and time. (See example on the following page.)

- Consult with your advisor.
- Make corrections or rewrite as indicated by your advisor.
- Consult with the seminar instructor
- Make corrections or rewrite as indicated by the seminar instructor and return to the seminar instructor for final proofing and approval.
ABSTRACT:
In plants, non-host disease resistance is the result of the interaction between an incompatible plant pathogen and the plant. For example, an incompatible fungal pathogen of pea plants is *Fusarium solani* f. sp. *phaseoli* (*Fsph*), normally a pathogen of bean. The non-host disease resistance response in this interaction is characterized by the accumulation of about 20 proteins that temporally correlate with disease resistance. A similar pattern of defense protein accumulation occurs in response to certain DNA-damaging agents such as actinomycin D and UV260nm light (6). Chitosan, a ∃-1,4-linked glucosamine, and a DNase are released from *Fsph* during its interaction with pea tissue (1,2). These components elicit pea defense responses (4,6). Moreover, *Fsph* DNase can cause pea DNA degradation *in vivo* (4) while chitosan has been shown to cleave DNA *in vitro* (5). Chitosan has been shown to localize in the nucleus early in the pea-*Fusarium* interaction (3).

In vertebrate cells, one particular response to DNA-damaging agents is the accumulation of the p53 protein (7). P53 is a sequence-specific transcription factor that activates many genes. In turn, these gene products play roles in the processes of cell cycle arrest or programmed cell death (8). We investigated the hypothesis that *Fsph* DNase and chitosan could induce p53 accumulation in a mammalian system. We chose this system to test our hypothesis for three reasons. First, a number of the same agents that induce p53 also induce pea defense responses (6,7). Second, since p53 has been a subject of intense study, there are a wide variety of commercial monoclonal antibodies to follow its accumulation. Finally, in addition to gaining insight on how these elicitors function in the pea system, their activity in an animal system could suggest possible therapeutic value in animals.

By western analysis, we determined that neither *Fsph* DNase nor chitosan were capable of causing p53 protein accumulation at the time points studied in the mouse preneoplastic mammary epithelial cell line, CL-S1. At 36 hrs. similar results were obtained utilizing the human MCF-7 mammary epithelial cell line. Also, treatment of the CL-S1 cell line with *Fsph* macroconidia, capable of excreting high levels of DNase, did not result in p53 accumulation. Immunocytochemistry was used as a supplemental method in determining whether p53 accumulated at 40 hrs. The immunocytochemical data were similar to those obtained by western analysis at 36 hrs. Finally, chitosan did not inhibit the growth of CL-S1 cells in culture. Taken together, these data suggest that *Fsph* DNase and chitosan did not interact with the DNA in either of the two cultured animal cell lines, at least not in a manner consistent with p53 accumulation.
**Student’s Progress**
The major professor regularly, at least annually, assesses the student’s progress during his or her tenure in the department. This applies to maintaining required grades, research progress, and meeting other departmental and university requirements toward fulfillment of degree requirements. Each student will receive annually a letter from the Chairman assessing the student’s performance. Refer to the annual review form found in the Assessment section of this handbook.

**Teaching Experience**
The department does not have a formal requirement for teaching experience in any of its degree programs. However, the Faculty is on record that teaching experience on the part of the graduate students should be encouraged in all possible ways. Such experience becomes an important part of a student’s qualifications in subsequent recommendations for certain positions. Presenting workshops, extra seminars, or assigned TA responsibilities in the department would constitute such experience.

**Time Limitations**
Ordinarily, the length of time a student may hold an appointment is limited to 2 years for Master’s candidates and 4 years for Doctoral aspirants.

**Transfer of Graduate Credit Hours**
PhD Programs often include transfer credits from the student’s M.S. program. Up to ½ of the 34 graded credits for the Ph.D. program can be transferred from another university, which is determined by the Graduate School.

Appropriate credit hours (with a grade of B or higher) earned in other accredited graduate schools may be applied to a limited extent toward an advanced degree; however, they may not be substituted for residence requirements. Acceptability of transfer credits is determined by the Graduate School, not the department. For more information on transfer credit and transfer credit restrictions see the GSPP’s and discuss the requested transfer with your major advisor.

**Writing Center**
In January 2008, the University's new Graduate and Professional Writing Center (GPWC) opened for business. GPWC features one-on-one in-person consultations, peer groups, and an onsite resource library. For further information, please visit their website.
MASTER’S DEGREE IN PLANT PATHOLOGY

Major Professor
Each student in the Department of Plant Pathology is chosen by a professor and agrees to be that professor’s student. The professor is known as the student’s major professor and also functions as his/her academic advisor. The major professor is the chair of the student’s advisory committee and supervises the thesis research.

Master’s Advisory Committee
During the first semester, an advisory committee should be chosen. The student, the major professor and the committee plan the student’s program of study. The Master’s committee must include a minimum of three (3) members including the Major Advisor as Chair. At least one member must be tenured or tenure-track Plant Pathology Graduate Faculty; USDA-ARS researchers appointed as WSU adjunct Plant Pathology faculty are entitled to Chair, Co-Chair, or serve as a committee member of graduate student committees. At least one member must be located on the Pullman campus; for students whose major advisor is located off campus, the Pullman designated committee member will serve as campus advisor while the student is Pullman and provide lab space in which to work, if needed. This ‘co-advisor’ will share the 700 research credit each semester the student is in Pullman and in the co-advisor’s lab. Other individuals internal to WSU serving as Graduate Faculty in their own program or discipline may serve as a committee member with approval of the Plant Pathology Chair. External committee members are approved on a case-by-case basis.

Master’s Program of Study
The M.S. program form should be submitted to the Graduate School by way of the JHGC no later than the beginning of the second semester of graduate work. Please be sure to submit the completed program form (including committee signatures) to the JHGC. The program for the Master of Science in Plant Pathology must include:

- 30 credit hours minimum of total credit
  - 21 credit hours minimum of graded course work, 15 of which must be at the 500-level with a maximum of 6 credit hours of non-graduate 300-and 400-level course work. The program must include 2 credit hours of Seminar (PI P 515)
  - 4 credit hours minimum of PI P 700 research credits

The maximum number of PI P 700 credit hours that may be recorded on the form is 15; you may enroll for more than 15 credit hours of PI P 700, they just can’t be shown on the program form.

Copies of the forms and directions can be found on the Graduate School’s ‘forms’ page.

Front of Program Form: If a definite thesis title has not been decided upon, the general subject area should be reported. Please obtain appropriate departmental and committee members’ signatures.
**Back of Program Form:** The student should supply appropriate information regarding courses taken and proposed, utilizing the WSU catalog, Graduate Study Bulletin, WSU academic records, and official transcripts from other institutions. Transfer credit, if requested should be reported exactly as it appears on the original transcript. Transfer credit hours should be reported in semester hours. All credits should be listed by year.

**Master’s Thesis**

A thesis based on original research is required for the M.S. in plant pathology. The thesis is a scholarly study that is a significant contribution to the knowledge of Plant Pathology. A draft of the thesis that has been read and approved by the major advisor must be given to all committee members *at least one (1) month prior to the date of your defense*. Refer to the Graduate School’s ‘Deadlines and Procedures for Graduation’ for relevant deadlines. Committee members must read, edit, and return drafts of theses to the student within a reasonable period of time. The Graduate Studies Committee recommends that committee members hold drafts for no longer than 30 days.

*Students: Be aware that your committee may require more time to review/comment on your thesis. Communicate with your advisor and committee early in the thesis writing process to establish the specific timelines for your thesis. It is strongly advised that the student call a committee meeting one (1) semester prior to their anticipated defense date to discuss the timeline for the actual defense date, committee members’ availability, etc.*

Note: The deadlines for submission to committee members are different for the Department of Plant Pathology from the Graduate School recommendations. Candidates for Doctoral degree must comply with both the Department and Graduate School requirements.

To inform yourself as to the committee’s expectations for a successful defense, see the Final Defense Rubric in the Assessment section of this handbook. Talk to your advisor and committee members for any clarification you need.

It is also strongly advised that the Application for Degree be submitted at least one semester prior to the final examination is scheduled so the student can be notified of graduate requirements (to-do lists) before enrolling their last semester.

**Final Master’s Examination**

Effective for students beginning their studies in fall semester of 2011 and thereafter, all students will be required to give an Exit Seminar. The date and time are to be decided after consultation with the student’s advisor. The non-credit exit seminar will be part of the requirements for graduation and is in addition to the topical seminars that are to be given for credit in Pl P 515. The format and other requirements, such as an abstract that needs to be distributed prior to the exit seminar, are the same as those for Pl P 515.

A final oral examination is also required of all M.S. candidates. Refer to the Assessment section of this handbook for a copy of the rubric that will be used for all exams. The student must have completed or be enrolled in all the required course work and registered for a
minimum of 2 credit hours in PLP 700 for the semester in which the final exam is to be taken.

**Scheduling your Exam**

The examination must be scheduled at least 10 or more working days after the submission of the completed thesis Acceptance/Final Examination Scheduling Form. The student must present an electronic copy of the thesis complete in format along with the scheduling form to the department chair for signature. **Please provide a courtesy copy of the completed scheduling form (includes all signatures) to the Johnson Hall Graduate Center before filing it with the Graduate School. AND, in addition to the advance digital copy the Graduate School requires, send the same electronic copy to Deb Marsh (marshdj@wsu.edu).** This will serve as the display copy and made available to the state-wide faculty via secure Sharepoint. **Copies must also be furnished to each of the candidate’s committee members at least (5) working days before the final examination.**

**Final Defense via WECN**

ALL final exams will be held in Pullman. The student and major professor must be in attendance in Pullman. Requests for exceptions must be directed to the department chair in writing by the advisor for the student. This must be done well in advance so as not to jeopardize the student meeting the requirement regarding submission of the Scheduling Form.

Note for final defense: The student should bring several copies of the thesis signature page (on the appropriate paper specified by the Graduate School) and a black pen to have committee members sign them while everyone is together.

**Thesis Formatting and Submission:** All theses and dissertations must be submitted in digital (.pdf) format according to the Graduate School’s digital formatting guidelines. Additionally, students are required to submit a 100% cotton paper copy of the title page, signed signature page, and abstract page along with their digital submission. The cotton paper is required by the library for archiving purposes. Refer to the [Dissertation and Thesis Guidelines](https://www.wsu.edu/gradschool/documents/dissertation_theis_guidelines.pdf) posted on the Graduate School website.

**Hardbound Thesis Requirement:** All students are required to submit one (1) hardbound copy of their thesis with name, degree and year on the spine, and title, name and year on the front to the department within 1 month of completing the oral exam. Samples are available by request from the library in the copy room. Do not follow the format of some else’s thesis. You may be copying their mistakes and/or rules may have changed. The JHGC coordinates binding with J&S Bindery ($20 each), a long-time area vendor (or you may arrange an alternate vendor of your choice). There is no departmental requirement on the type of paper to be used. We suggest you include a completed signature page.

**More Information:** For more information on the Master's Degree, please go to Chapter 7 of the GSPP.
# Deadlines and Procedures for M.S. Graduate Degrees

## Spring 2014-Fall 2015 Deadlines and Procedures for the Master’s Degree

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Deadlines</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1. Obtain an Advisor/Committee Chairperson</strong></td>
<td>As soon as possible after admission to Graduate School</td>
</tr>
<tr>
<td><strong>2. Submit Program of Study to the Graduate School</strong></td>
<td><strong>Graduation</strong></td>
</tr>
<tr>
<td>Master Students – No later than one semester (4 months) preceding Final Exam (dates listed at right are for M.S. degree students).</td>
<td>Spring 2014</td>
</tr>
<tr>
<td>Program of Study form found at <a href="http://gradschool.wsu.edu/Forms/index.html">http://gradschool.wsu.edu/Forms/index.html</a></td>
<td>Summer 2014</td>
</tr>
<tr>
<td><strong>3. Submit Application for Degree (Graduation) to the Graduate School</strong></td>
<td>Fall 2014</td>
</tr>
<tr>
<td>(See Application for Degree instructions at <a href="http://www.gradschool.wsu.edu/Forms/">http://www.gradschool.wsu.edu/Forms/</a>.)</td>
<td>Spring 2015</td>
</tr>
<tr>
<td>* Also last day to apply for a Graduate Certificate.</td>
<td>Summer 2015</td>
</tr>
<tr>
<td><strong>All students pay a $50 graduation processing fee (valid for one year only).</strong></td>
<td>Fall 2015</td>
</tr>
<tr>
<td>Watch for Announcements (Friday Focus) or check the Student section of the Graduate School’s Home Page <a href="http://gradschool.wsu.edu/CurrentStudents/">http://gradschool.wsu.edu/CurrentStudents/</a> for the date you may first apply for a particular semester.</td>
<td><strong>Graduation</strong></td>
</tr>
<tr>
<td>Already paid your fee but discovered you cannot complete your requirements for degree for semester in which you applied? Then, you must UPDATE your App for Degree.</td>
<td>Spring 2014</td>
</tr>
<tr>
<td><strong>To UPDATE your App for Degree:</strong></td>
<td>Summer 2014</td>
</tr>
<tr>
<td>Email <a href="mailto:gradschool@wsu.edu">gradschool@wsu.edu</a></td>
<td>Fall 2014</td>
</tr>
<tr>
<td>On SUBJECT LINE List: Your name – UPDATE App for Degree</td>
<td>(Begin applying: 6/16/2014)</td>
</tr>
<tr>
<td>In Body of Email, provide:</td>
<td>w. $25 late fee: 10/11-10/31/2014</td>
</tr>
<tr>
<td>Your name</td>
<td>w. $50 late fee: 11/01-11/26/2014</td>
</tr>
<tr>
<td>WSU Student ID# (very important!) &amp; Type of degree (Master’s or Doctoral)</td>
<td>Spring 2015</td>
</tr>
<tr>
<td>NBW semester of graduation (Spring, Summer or Fall) and YEAR</td>
<td>w. $25 late fee: 03/07-03/31/2015</td>
</tr>
<tr>
<td>w. $50 late fee: 04/01-04/25/2015</td>
<td>Summer 2015</td>
</tr>
<tr>
<td><strong>Fall 2015 ..................</strong></td>
<td>w. $25 late fee: 05/30-06/30/2015</td>
</tr>
<tr>
<td><strong>Graduation</strong></td>
<td><strong>Scheduling Deadline</strong></td>
</tr>
<tr>
<td><strong>4. Submit:</strong></td>
<td>Fall 2015</td>
</tr>
<tr>
<td>a.) <em>Completed Final Exam Scheduling Form</em> no later than 2 full weeks (10 working-days) prior to the exam.</td>
<td>w. $25 late fee: 10/10-10/31/2015</td>
</tr>
<tr>
<td>b.) Draft Thesis <strong>Thesis track Master’s students must submit an electronic draft</strong> (PDF preferred) of their final draft thesis (formatted in as complete a form as it will be before final defense.)</td>
<td>w. $50 late fee: 11/01-11/25/2015</td>
</tr>
<tr>
<td>Send thesis drafts to <a href="mailto:gradschool@wsu.edu">gradschool@wsu.edu</a></td>
<td>see next page</td>
</tr>
<tr>
<td>In the email, please provide: 1. Your Name  2. WSU Student ID#  3. Exam Date</td>
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</tbody>
</table>
| Note: *Completed means ALL signatures, thesis title, date/time/location(s) identifying where each committee member will attend the exam. (Cont’d)
5. Conduct Final Examination (LAST possible date)

*Notice: We have extended the time to defend to the last possible date. We are unable to make exceptions beyond these deadlines. **We do not encourage students wait until last date to defend – please meet with your committee to identify your final exam date well in advance to ensure you graduate on time and avoid having to postpone your final exam/defense or graduation to the next semester.*

<table>
<thead>
<tr>
<th>Graduation</th>
<th>Exam Deadline</th>
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<tbody>
<tr>
<td>Spring 2014</td>
<td>April 25, 2014</td>
</tr>
<tr>
<td>Summer 2014</td>
<td>August 1, 2014</td>
</tr>
<tr>
<td>Fall 2014</td>
<td>November 26, 2014</td>
</tr>
<tr>
<td>Spring 2015</td>
<td>April 24, 2015</td>
</tr>
<tr>
<td>Fall 2015</td>
<td>November 25, 2015</td>
</tr>
</tbody>
</table>

6. Submit all required final documents to the Graduate School (Fr Ad 324)

Final theses must be submitted within 5 working days of a successful defense. Submission includes uploading a copy to the library at [www.dissertations.wsu.edu](http://www.dissertations.wsu.edu) and bringing the properly formatted (on 100% cotton paper) title page, signature page (signed in black ink), and abstract to the Graduate School, along with the signed/witnessed Release/Hold Harmless Agreement by 5:00 p.m. on the 5th workday following your successful defense.

Final Checklist found at: [http://gradschool.wsu.edu/Documents/PDF/FinalCheckList.pdf](http://gradschool.wsu.edu/Documents/PDF/FinalCheckList.pdf)

**COMMENCEMENT (Graduation)**

If you wish to attend Commencement, remember to register for Commencement by watching for Announcements regarding the Graduate Fair OR by visiting the Commencement website found at: [http://commencement.wsu.edu/](http://commencement.wsu.edu/)

For policy regarding graduation participation as a graduate student, please visit: [http://gradschool.wsu.edu/CurrentStudents/PoliciesAndProcedures/Chapter10/](http://gradschool.wsu.edu/CurrentStudents/PoliciesAndProcedures/Chapter10/)
DOCTORAL DEGREE IN PLANT PATHOLOGY

Students in plant pathology must have an M.S. degree to be admitted into the doctoral program, unless exercising the department’s by-pass, explained in the Academic Information section of this handbook. The period of study for the Ph.D. is at least 3 years beyond the M.S. degree, one of which shall be in residence at WSU on the Pullman campus.

Major Professor
Each student in the Department of Plant Pathology is chosen by a professor and agrees to be that professor’s student. The professor is known as the student’s major professor and also functions as his/her academic advisor. The major professor is the chair of the student’s advisory committee and supervises the thesis research (see Faculty listing in the back of this handbook).

Doctoral Advisory Committee
During the first semester, an advisory committee should be chosen. The student, the major professor and the committee plan the student’s program of study. The Doctoral committee must include a minimum of four (4) members including the Major Advisor as Chair. At least two members must be tenured or tenure-track Plant Pathology Graduate Faculty; USDA-ARS researchers appointed as WSU adjunct Plant Pathology faculty are entitled to act as Chair, Co-Chair, or member of graduate student committees. At least one member must be located on the Pullman campus; for students whose major advisor is located off campus, the Pullman designated committee member will serve as campus advisor while the student is Pullman and provide lab space in which to work, if needed. This ‘co-advisor’ will share the 800 research credit each semester the student is in Pullman and in the co-advisor’s lab. Other individuals internal to WSU serving as Graduate Faculty in their own program or discipline may serve as a committee member with approval of the Plant Pathology Chair. External committee members are approved on a case-by-case basis.

At least one faculty member of the committee must be from the minor department/program if a minor is declared on the doctoral program. When no minor is declared, no outside member is required. However, when outside supporting course work is included in the program, an outside member is recommended.

Doctoral Program of Study
The Ph.D. program form should be submitted to the Graduate School no later than the end of the first year of Ph.D. studies. Please be sure to submit a copy of the completed program form (including all signatures) to the JHGC before filing it with the Graduate School. The program for the Ph.D. in Plant Pathology must include:

- 72 credit hours minimum of total credit
- 34 credit hours minimum of graded course work, 25 of which must be at the 500 level with a maximum of 9 credit hours of non-graduate credit (300 or 400 level).
Only ½ of the graded coursework is transferable from another university. (Approximately 17-18 credits of the 34 semester hours)

14 credit hours minimum of Plant Pathology coursework are required. (The 14 credit hours may include transfer credits if they are accepted by the Graduate School.)

2 credit hours minimum of Seminar (PlP 515) must be taken in the PhD program, and 20 credit hours minimum of PIP 800 research credit hours

The program of study form and directions are found on the Graduate School’s website.

**Degree Deadlines**

Doctoral students have two deadlines: 1) the oldest coursework on the Program of Study cannot be over 10 years old at time of graduation; and 2) the degree must be earned within three years of successfully passing the Preliminary Exam.

**Preliminary Examination**

An oral preliminary examination is required for each Ph.D. student during his/her program. The purpose of the preliminary examination is to test the student’s knowledge of plant pathology and related areas. The preliminary examination is typically scheduled after the student has completed most of his/her required coursework, usually at the end of the second year of his/her program, but no later than 4 months prior to the oral dissertation defense. Refer to the Assessment section of this handbook for a copy of the rubric that will be used for all preliminary exams. Student must have an approved program of study on file, and permission from their committee. *The preliminary exam must be scheduled a minimum of 10 working days in advance of the exam date. Please provide a completed copy of the scheduling form (includes all signatures) to the Johnson Hall Graduate Center before filing it with the Graduate School. Check deadlines!*  

The student’s dissertation advisory committee will give the examination. A ‘Graduate Mentor’ (appointed by the Grad School) can be requested if the advisor or student feels there is a need. There are three possible outcomes of the preliminary examination: 1) the committee votes to pass the student based on satisfactory performance; 2) the committee votes to fail the student based on unsatisfactory performance but recommends the student be allowed to take the examination again after a minimum period of three months; 3) or the committee votes to fail the student based on unsatisfactory performance and recommends the student be terminated from the graduate program. The committee may also make recommendations to correct deficiencies that become evident during the preliminary examination. To inform yourself as to the committee’s expectations for a successful defense, see the Final Defense Rubric in the Assessment section of this handbook. Talk to your advisor and committee members for any clarification you need.

NOTE: Preparation for the preliminary examination, i.e. studying, is to be done on the student's own time.
**Doctoral Dissertation**

A dissertation based on original research is required for the Ph.D. in plant pathology. The dissertation is a scholarly study that represents a significant publishable contribution to the science of Plant Pathology. A draft of the dissertation that has been read and approved by the major advisor must be given to all committee members *at least one (1) month prior to the date of your defense*. Refer to the Graduate School’s ‘Deadlines and Procedures for Graduation’ for relevant deadlines. Committee members must read, edit, and return drafts of the dissertation to the student within a reasonable period of time. The Graduate Studies Committee recommends that committee members hold drafts for no longer than 30 days.

*Students: Be aware that your committee may require more time to review/comment on your dissertation. Communicate with your advisor and committee early in the thesis writing process to establish the specific timelines for your dissertation. It is strongly advised that the student call a committee meeting one (1) semester prior to their anticipated defense date to discuss the timeline for the actual defense date, committee members’ availability, etc.*

Note: The deadlines for submission to committee members are different for the Department of Plant Pathology from the Graduate School recommendations. Candidates for Doctoral degree must comply with both the Department and Graduate School requirements.

To inform yourself as to the committee’s expectations for a successful defense, see the Final Defense Rubric in the Assessment section of this handbook. Talk to your advisor and committee members for any clarification you need.

It is also strongly advised that the Application for Degree be submitted at least one semester prior to the final examination is scheduled so the student can be notified of graduate requirements (to-do lists) before enrolling their last semester.

**Doctoral Dissertation Defense**

Effective for students beginning their studies in fall semester of 2011 and thereafter, all students will be required to give an Exit Seminar. The date and time are to be decided after consultation with the student’s advisor. The non-credit exit seminar will be part of the requirements for graduation and is in addition to the topical seminars that are to be given for credit in Pl P 515. The format and other requirements, such as an abstract that needs to be distributed prior to the exit seminar, are the same as those for Pl P 515.

A final oral defense is also required of all Ph.D. candidates. The student must have completed or be enrolled in all the required course work and registered for a minimum of 2 credit hours in Pl P 800 for the semester in which the final exam is to be taken. To schedule your final examinations you must have an approved Application for the Degree on file with the Graduate School. It is strongly advised that the Application for Degree be completed and submitted at least one semester prior to the final examination is scheduled so the student can be notified of graduate requirements (to-do lists) before enrolling their last semester. Refer
to the Assessment section of this handbook for a copy of the rubric that will be used for all exams.

It is also strongly advised that the student call a committee meeting one (1) semester prior to their anticipated defense date to discuss the timeline for the actual defense date, committee members’ availability, etc. Communication between a student and their committee members is critical and must go in both directions.

**Scheduling your Exam**

The examination must be scheduled at least 10 or more working days after the submission of the completed thesis Acceptance/Final Examination Scheduling Form. The candidate must present an electronic copy of the thesis complete in format along with the scheduling form to the department chair for signature.  *Please provide a courtesy copy of the completed scheduling form (includes all signatures) to the Johnson Hall Graduate Center before filing it with the Graduate School. AND, in addition to the advance digital copy the Graduate School requires, send the same electronic copy to Deb Marsh (marshdj@wsu.edu). This will serve as the display copy and made available to the state-wide faculty via secure Sharepoint. Copies must also be furnished to each of the candidate’s committee members at least (5) working days before the final examination.*

**Final Defense via WECN**

ALL final exams will be held in Pullman. The student and major professor must be in attendance in Pullman. Requests for exceptions must be directed to the department chair in writing by the advisor for the student. This must be done well in advance so as not to jeopardize the student meeting the requirement regarding submission of the Scheduling Form.

Note for final defense: The student should bring several copies of the dissertation signature page (on the appropriate paper specified by the Graduate School) and a black pen to have committee members sign them while everyone is together.

**Dissertation Formatting and Submission**

All theses and dissertations must be submitted in digital (.pdf) format according to the Graduate School’s digital formatting guidelines. Additionally, students are required to submit a 100% cotton paper copy of the title page, signed signature page, and abstract page along with their digital submission. The cotton paper is required by the library for archiving purposes. Refer to the Dissertation and Thesis Guidelines posted on the Graduate School website.

**Hardbound Dissertation Requirement**

All students are required to submit one (1) hardbound copy of their thesis with name, degree and year on the spine, and title, name and year on the front to the department within 1 month of completing the oral exam. Samples are available by request from the library in the copy room. Do not follow the format of some else’s thesis. You may be copying their
mistakes and/or rules may have changed. The JHGC coordinates binding with J&S Bindery ($20 each), a long-time area vendor (or you may arrange an alternate vendor of your choice). There is no departmental requirement on the type of paper to be used. We suggest you include a completed signature page. Open access and copyright are options you can choose, but you will be charged for it. Payment would be made directly to UMI.

**More Information**

For more information on the Ph.D. Degree, please go to Chapter 8 in the Policies and Procedures.
# Deadlines and Procedures for PhD Graduate Degrees

## Spring 2014-Fall 2015 Deadlines and Procedures for the Doctoral Degree

All forms can be found at [http://www.gradschool.wsu.edu/forms/](http://www.gradschool.wsu.edu/forms/)

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Deadlines</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1. Obtain an Advisor/Committee Chairperson</strong></td>
<td>As soon as possible after admission to Graduate School</td>
</tr>
<tr>
<td><strong>2. Submit Program of Study for Doctoral Degree to the Graduate School</strong></td>
<td>If your 3rd Semester is:</td>
</tr>
<tr>
<td></td>
<td>Spring 2014: 03-01-2014</td>
</tr>
<tr>
<td></td>
<td>Summer 2014: 03-01-2014</td>
</tr>
<tr>
<td></td>
<td>Fall 2014: 10-01-2014</td>
</tr>
<tr>
<td></td>
<td>Spring 2015: 03-01-2015</td>
</tr>
<tr>
<td></td>
<td>Summer 2015: 03-01-2015</td>
</tr>
<tr>
<td></td>
<td>Fall 2015: 10-01-2015</td>
</tr>
<tr>
<td><strong>3. Schedule Preliminary Exam (Doctoral Students Only)</strong></td>
<td>Do this after approval and completion of 1/2 most of the Program and</td>
</tr>
<tr>
<td></td>
<td>No later than 10 working-days (2 weeks) prior to the date you wish to take the Prelim Exam.</td>
</tr>
<tr>
<td><strong>4. Preliminary Examination (Doctoral Students Only)</strong></td>
<td>At least 4 months (one semester) prior to Final Oral Examination.</td>
</tr>
<tr>
<td><strong>5. Submit Application for Degree (Graduation) to the Graduate School</strong></td>
<td>Graduation <em>App Deadline</em></td>
</tr>
<tr>
<td></td>
<td>Spring 2014: 03-07-2014</td>
</tr>
<tr>
<td></td>
<td>Summer 2014: 06-13-2014</td>
</tr>
<tr>
<td></td>
<td>Fall 2014: 10-10-2014</td>
</tr>
<tr>
<td></td>
<td>(Begin applying: 6/16/2014)</td>
</tr>
<tr>
<td></td>
<td>w. $25 late fee: 10/11-10/31/2014</td>
</tr>
<tr>
<td></td>
<td>w. $50 late fee: 11/01-11/26/2014</td>
</tr>
<tr>
<td></td>
<td>Spring 2015: 03/06/2015</td>
</tr>
<tr>
<td></td>
<td>w. $25 late fee: 03/07-03/31/2015</td>
</tr>
<tr>
<td></td>
<td>w. $50 late fee: 04/01-04/25/2015</td>
</tr>
<tr>
<td></td>
<td>Summer 2015: 05/20/2015</td>
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<tr>
<td></td>
<td>w. $25 late fee: 05/20-06/30/2015</td>
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<tr>
<td></td>
<td>w. $50 late fee: 07/01-07/31/2015</td>
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<td>Fall 2015: 10/09/2015</td>
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<tr>
<td></td>
<td>w. $25 late fee: 10/10-10/31/2015</td>
</tr>
<tr>
<td></td>
<td>w. $50 late fee: 11/01-11/25/2015</td>
</tr>
</tbody>
</table>

To UPDATE your App for Degree: Email gradschool@wsu.edu
A. On SUBJECT LINE List: Your name – UPDATE App for Degree
B. In Body of Email, provide:
   - Your name
   - WSU Student ID# (very important) &
   - Type of degree (Master’s or Doctoral)
   - NEW semester of graduation (Spring, Summer or Fall) and YEAR (cont’d)

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[See next page]
6. Submit a completed Final Exam Scheduling Form no later than 10 working-days prior to the exam date. At the same time, doctoral students need to submit an electronic draft copy of the final draft dissertation.

Taking your exam for the 2nd time?
Must submit 3 weeks in advance if you are re-taking your Final Exam (2nd attempt)

Note: 'Completed' means ALL signatures, thesis title, date/time/location(s) identifying where each committee member will attend the exam.

Doctoral students: Submit the dissertation draft to www.dissertations.wsu.edu. This link will lead to the ETD/ProQuest website.

(Doctoral candidates: Be aware of the note below when scheduling)

Note: Doctoral students who want to participate in Commencement must have all requirements completed by noon on this date (NO Exceptions). This includes your dissertation being ‘cleared’ by the Graduate School (all formatting requirements completed).

(Final Dissertations are due within 5 working days of the successful defense).

<table>
<thead>
<tr>
<th>Graduation</th>
<th>Scheduling Deadline</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spring 2014</td>
<td>04/11/2014</td>
</tr>
<tr>
<td>Summer 2014</td>
<td>07/18/2014</td>
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<tr>
<td>Fall 2014</td>
<td>11/12/2014</td>
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<tr>
<td>Spring 2015</td>
<td>04/10/2015</td>
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<tr>
<td>Summer 2015</td>
<td>07/17/2015</td>
</tr>
<tr>
<td>Fall 2015</td>
<td>11/10/2015</td>
</tr>
</tbody>
</table>

7. Conduct Final Examination (Last possible date)
Notice: We have extended the time to defend to the last possible date. We are unable to make exceptions beyond these deadlines. "We do not encourage students wait until last date to defend—please meet with your committee to identify your final exam date well in advance to ensure you graduate on time and avoid having to postpone your final exam/defense or graduation to the next semester.

<table>
<thead>
<tr>
<th>Graduation</th>
<th>Exam Deadline</th>
</tr>
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<tbody>
<tr>
<td>Spring 2014</td>
<td>April 25, 2014</td>
</tr>
<tr>
<td>Summer 2014</td>
<td>August 1, 2014</td>
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<tr>
<td>Fall 2014</td>
<td>November 26, 2014</td>
</tr>
<tr>
<td>Spring 2015</td>
<td>April 24, 2015</td>
</tr>
<tr>
<td>Summer 2015</td>
<td>July 31, 2015</td>
</tr>
<tr>
<td>Fall 2015</td>
<td>November 25, 2015</td>
</tr>
</tbody>
</table>

8. Submit all required final documents to the Graduate School (Fr Ad 324)
Final dissertations must be submitted within 5 working days of a successful defense. Submission includes uploading a copy to the library at www.dissertations.wsu.edu and bringing the properly formatted (on 100% cotton paper) title page, signature page (signed in black ink), and abstract to the Graduate School, along with the signed/witnessed Release/Hold Harmless Agreement and the SED information by 5:00 p.m. on the 5th working day following your successful defense.

Final Checklist found at:
http://gradschool.wsu.edu/Documents/PDF/FinalCheckList.pdf

<table>
<thead>
<tr>
<th>Graduation</th>
<th>Final Docs Deadline</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spring 2014</td>
<td>05/02/2014</td>
</tr>
<tr>
<td>Summer 2014</td>
<td>08/08/2014</td>
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<tr>
<td>Fall 2014</td>
<td>12/05/2014</td>
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<td>Spring 2015</td>
<td>05/01/2015</td>
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<tr>
<td>Summer 2015</td>
<td>08/07/2015</td>
</tr>
<tr>
<td>Fall 2015</td>
<td>12/04/2015</td>
</tr>
</tbody>
</table>

COMMENCEMENT (Graduation)
If you wish to attend Commencement, remember to register for Commencement by watching for Announcements regarding the Graduate Fair OR by visiting the Commencement website found at:
http://commencement.wsu.edu/

For policy regarding graduation participation as a doctoral student, please visit:
http://gradschool.wsu.edu/CurrentStudents/PoliciesAndProcedures/Chapter10/

Updated: 6/20/2014
ASSISTANTSHIPS

Appointments
Within the Department of Plant Pathology there is a limited number of Research Assistantships (RA) available for students. There are two levels of compensation: one for M.S. students and one for Ph.D. students. All students on appointment are paid on a 12-month basis. Summer salary is the same as the salary for spring semester. Increases in pay from one level to the next occur only at the beginning of fall or spring semester. Benefits for TA/RA appointments currently includes medical and dental insurance.

Appointments are at .50 FTE (full-time equivalent). The required academic load is 10 credit hours (10-12 average enrollment) during fall and spring semester, and if necessary, three for the summer. The required workload is 20 hours per week. For the RA the work required is at the discretion of the major professor. Assistantships are granted on a semester basis, and are renewed each semester at the discretion of the Graduate School and the Department. All study, whether for classes, exams or defense, is to be done on the student’s own time.

The acceptance of admission, whether paid for from teaching funds, research grants, experiment station monies, or from public, private or foreign sources, implies a commitment on the part of the graduate student to conduct research with the major professor under a specific project. Except under extraordinary circumstances, students are discouraged from changing research projects. Doing so not only is disruptive of ongoing research, but also requires reassignment and finding other sources of financial support, both of which may be difficult, or even impossible.

Funding Source
Not all assistants are funded from the same type of funding. Whether or not tuition can be paid depends on the stipulations regulated by the granting agency. If tuition is not allowed, the assistant will be paid a higher salary to compensate and will be expected to pay tuition him/herself. This may or may not result in a slightly higher tax responsibility. All tax responsibility rests with the student.

Reappointment
Reappointments normally will be approved if recommended by the department provided the student has maintained a 3.0 cumulative grade point average (GPA) or higher in all work since initial admission to the Graduate School, provided there are no outstanding incomplete grades of more than one semester or summer session’s duration, and provided student has demonstrated satisfactory research progress and continued regular enrollment in the Graduate School.

Vacation/Leave Policy
There are no scheduled or guaranteed vacations. Students on appointment do not earn leave time. During the term of their appointments, all graduate student assistants are expected to be at work each normal workday, including periods when the University is not in session with the exception of the legal
holidays designated by the Board of Regents. The major professor must approve all absences in advance.

The Graduate School has recently updated their forms to allow for when a student must be absent. View those policies in Chapter 5 under Continued Enrollment and Graduate Student Leave at their website.

**Residency Requirement**
Graduate students on RA/TA/PA appointments must live in the State of Washington.

Non-resident U.S. citizens with assistantships are guaranteed a non-resident tuition waiver for one year only. Upon your arrival, please begin taking the necessary steps to become a Washington State resident.

Information on establishing Washington residency can be found on the WSU Registrar’s website [here](#).
GRADUATE AND PROFESSIONAL STUDENT ASSOCIATION

The Graduate and Professional Student Association (GPSA) is the representative body for graduate and professional students at WSU. The GPSA’s primary role is to provide academic and professional support services. Through active participation and membership in numerous national, state, and university organizations and committees, the GPSA seeks to provide graduate and professional students with representation and a forum to express their concerns. All graduate and professional students are encouraged to direct their concerns and questions to their respective Senators, District Representatives, or to the President and Vice President.

The GPSA sponsors several activities for the benefit of graduate students. Please see Services at their website for complete details.

There is at least one GPSA Senator from each department on campus that has a graduate program. The number of senators is based on the number of graduate students in the department. Currently, the Department of Plant Pathology can have 2 Senators, selected by the students.

The body of Plant Pathology Graduate Students is now a registered student organization (RSO) referred to as the ‘Plant Pathology Graduate Student Organization’.

Officers and GPSA Reps will be posted on the Plant Pathology website.

Dr. William R. Wiley Annual Research Exposition
The Wiley Exposition held each Spring provides an opportunity for graduate and professional students to present and publish their research. Cash prizes are awarded in each of five academic divisions. To find out when to register and further information regarding abstract submission, please visit the Wiley website.

TA Excellence Awards
Recognizes those graduate students who have demonstrated excellence in their role as teaching assistant. A total of 10 awards of $300 each are given.

Travel/Registration Grants
Travel and registration grants are available to help defray transportation and registration costs for presentation of papers at significant professional meetings.

Travel grants may also be available through various professional organizations including The American Phytopathological Society (APS), Mycological Society of America, and the Society of Nematologists. These must be applied for well in advance. Consult with your advisor for potential meetings you will be attending.
Copy Services
Graduate students can make FREE copies in the GPSA Study Center which is located in the Holland Terrill Library. To pay for printing and copying you must have money on your Cougar Card, the same card you use to check out books. To put money on your Cougar Card online, just go to the Cougar Card website, click on Add Cougar Cash, and follow the instructions. If you need to put cash on your Cougar Card, or have problems with your card, go to the Cougar Card office, CUB Room 60.

Interlibrary Loans (ILLiad)
Research projects often require books, journals, or articles that the WSU libraries may not own, but can retrieve for you from another institution. Interlibrary loans are now done through the web. To learn more about Interlibrary loans or to place a request, please visit: their website.

Interlibrary Loan support personnel (335-5517) can be found at the Circulation Desk located on the first floor of the new Holland Library or email them at: ill@mail.wsu.edu if you have further questions.

By going to their Services link, you can also take online tours and discover many other useful features of the WSU library system.
## FACULTY

### DEPARTMENT OF PLANT PATHOLOGY

* Indicates Adjunct Faculty

<table>
<thead>
<tr>
<th>NAME &amp; TITLE</th>
<th>EXPERTISE</th>
<th>LOCATION, PHONE, &amp; E–MAIL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lori M. Carris, Ph. D. Assoc. Professor &amp; Assoc. Plant Pathologist</td>
<td>Mycology, biology and systematics of smut fungi</td>
<td>WSU - Pullman 509-335-3733 <a href="mailto:carris@wsu.edu">carris@wsu.edu</a></td>
</tr>
<tr>
<td>Gary A. Chastagner, Ph. D. Plant Pathologist</td>
<td>Christmas trees, turf, bulb, and ornamental diseases</td>
<td>WWREC - Puyallup 253-445-4528 <a href="mailto:chastag@wsu.edu">chastag@wsu.edu</a></td>
</tr>
<tr>
<td>*Weidong Chen, Ph.D. Research Plant Pathologist USDA-ARS</td>
<td>Fungal diseases of grain legumes, genetics of host-pathogen interactions.</td>
<td>WSU - Pullman 509-335-9178 <a href="mailto:w-chen@wsu.edu">w-chen@wsu.edu</a></td>
</tr>
<tr>
<td>*Xianming Chen, Ph.D. Research Plant Pathologist USDA-ARS</td>
<td>Cereal rusts, genetics and plant resistance</td>
<td>WSU - Pullman 509-335-8086 <a href="mailto:xianming@wsu.edu">xianming@wsu.edu</a></td>
</tr>
<tr>
<td>*Frank M. Dugan, Ph.D. Research Plant Pathologist USDA-ARS</td>
<td>Ascomycetes and associated anamorphs, fungi endophytic in higher plants</td>
<td>WSU - Pullman 509-335-1783 <a href="mailto:fdugan@wsu.edu">fdugan@wsu.edu</a></td>
</tr>
<tr>
<td>Lindsey du Toit, Ph.D. Associate Plant Pathologist Extension Plant Pathologist</td>
<td>Vegetable seed pathology, vegetable pathology</td>
<td>NWREC Mt. Vernon 360-848-6140 <a href="mailto:dutoit@wsu.edu">dutoit@wsu.edu</a></td>
</tr>
<tr>
<td>Kenneth C. Eastwell, Ph.D. Professor Plant Pathologist</td>
<td>Plant virology, fruit tree and grape pathology</td>
<td>IAREC - Prosser 509-786-2226 Ext. 385 <a href="mailto:keastwell@wsu.edu">keastwell@wsu.edu</a></td>
</tr>
<tr>
<td>NAME &amp; TITLE</td>
<td>EXPERTISE</td>
<td>LOCATION, PHONE, &amp; E–MAIL</td>
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<tr>
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</tr>
<tr>
<td>Dean A. Glawe, Ph.D. Professor &amp; Plant Pathologist</td>
<td>Mycology; systematics and biology of pyrenomycetes, powdery mildews and yeasts; taxonomic databases</td>
<td>WSU - Pullman 509-335-0619 <a href="mailto:glawe@wsu.edu">glawe@wsu.edu</a></td>
</tr>
<tr>
<td>Gary G. Grove, Ph.D. Professor</td>
<td>Fruit tree diseases and epidemiology</td>
<td>IAREC - Prosser 509-786-9283 <a href="mailto:grove@wsu.edu">grove@wsu.edu</a></td>
</tr>
<tr>
<td>Lee A. Hadwiger, Ph.D. Professor &amp; Plant Pathologist</td>
<td>Molecular biology, host-parasite interactions, and disease resistance</td>
<td>WSU - Pullman 509-335-3751 <a href="mailto:chitosan@wsu.edu">chitosan@wsu.edu</a></td>
</tr>
<tr>
<td>Scot H. Hulbert, Ph.D. R. James Cook Endowed Chair in Cropping Systems Pathology Professor, Crop &amp; Soil Sciences Chair and Scientist, Plant Pathology Dept.</td>
<td>Genetics of resistance and virulence; disease management in conservation-oriented cropping systems.</td>
<td>WSU - Pullman 509-335-3722 <a href="mailto:scot_hulbert@wsu.edu">scot_hulbert@wsu.edu</a></td>
</tr>
<tr>
<td>Debra A. Inglis, Ph.D. Plant Pathologist and Extension Plant Pathologist</td>
<td>Vegetable pathology</td>
<td>NWREC-Mount Vernon 360-848-6134 <a href="mailto:dainglis@wsu.edu">dainglis@wsu.edu</a></td>
</tr>
<tr>
<td>Dennis A. Johnson, Ph.D. Professor</td>
<td>Epidemiology and management of mint and potato diseases</td>
<td>WSU - Pullman 509-335-3753 <a href="mailto:dajohn@wsu.edu">dajohn@wsu.edu</a></td>
</tr>
<tr>
<td>*Richard Larsen, Ph.D. Research Plant Pathologist, USDA-ARS</td>
<td>Virology of bean and cool season legumes; resistance in alfalfa to soil-borne pathogens</td>
<td>IAREC - Prosser 509-786-9259 <a href="mailto:richard.larsen@ars.usda.gov">richard.larsen@ars.usda.gov</a></td>
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