

Doctor of Plant Medicine Program



Graduate Student Handbook

3rd Edition

August 2015

PREFACE

Welcome to the University of Florida, Doctor of Plant Medicine (DPM) Program! The DPM graduate student handbook has been prepared to assist graduate students and prospective faculty mentors through basic information regarding the guidance of DPM students. DPM Program information will also be updated on the DPM website (<http://dpm.ifas.ufl.edu/>). DPM graduate students are within their program (Plant Medicine) and also the home discipline department/unit of their faculty mentor. DPM students complete a rigorous group of courses as well as two substantial internships. The opportunities for professional development and employment are extensive. Congratulations on your decision to become a premier plant health professional!

Graduate Student Rights and Responsibilities

Some DPM-specific modifications are included for this section. Otherwise, the Graduate Students Rights and Responsibilities text was obtained from the Entomology and Nematology Department graduate handbook. Graduate students on an assistantship are responsible for assigned duties from either the DPM Director or another designated member of the faculty, depending on the source of financial support. This assigned work is in addition to coursework or internship requirements. Students, including those on fellowships or with other sources of support, may have responsibilities for colony maintenance, diagnostic lab duties, or other tasks with other students or technical support staff in their advisors' laboratories. Students are required to participate in the activities of their primary mentor's lab for their professional development and their advisor's extension and/or applied research projects. Graduate study is a full-time job and may include evening and/or weekend obligations. Students are committed to classes, applied research and/or extension activities, internships, seminars and service for at least 40 hours per week. Note that specific hours are to be established by the student's advisor(s). Therefore, students must make arrangements with their faculty advisor(s) for any changes to this requirement or any absences — including those during University holidays. Please carefully read Appendix D in this handbook for information on the Doctor of Plant Medicine (DPM) program leave policies. The DPM program is a partnership among faculty mentors and teaching faculty within the following primary departments:

- Entomology and Nematology Department
- Department of Plant Pathology
- Agronomy Department
- Horticulture Sciences Department
- Environmental Horticulture Department
- Soil and Water Sciences Department
- Food Science and Human Nutrition Department
- School of Forest Resources and Conservation

Graduate students are considered to be a member of their respective mentor's department in addition to the overall DPM program. Graduate students co-enrolled in MS or PhD programs are responsible to their mentor, MS/PhD graduate department, and the rules and regulations of their discipline-specific MS/PhD program. Upon completion of a MS or PhD degree, up to 30 credits may transfer to the DPM program. Research credits may not transfer to the DPM program.

University-mandated student rights and responsibilities can be found on the Dean of Students' web site. <http://www.dso.ufl.edu/studenthandbook/studentrights.php>

Further helpful information, including grievance procedures, can be found at the Dean of Students' Office web site <http://www.dso.ufl.edu/students.php>

Plagiarism and Academic Honesty

The Plagiarism and Academic Honesty section is from the Entomology and Nematology Department Graduate Student Handbook. Plagiarism is a serious problem in academia today, especially with the ease of obtaining information from the web. Plagiarism is defined as representing the words or ideas of another person as one's own, without attribution to the source. All words and ideas must be attributed to a source unless they are considered common knowledge (i.e., widely known by many people and found in many different sources). There are many kinds of plagiarism, as you will read on the Guide to Plagiarism website referenced below. One of the most common ones is "insufficient paraphrasing", even with correct citation (<http://www.uflib.ufl.edu/msl/07b/studentplagiarism.html#paraphrasing>).

Plagiarism is unethical, unacceptable in science, and prohibited by the UF Student Honor Code (appropriate sections of the Honor Code are appended to this handbook). The consequences for plagiarism while at the University of Florida range from receiving a grade of zero for the plagiarized assignment or a failing grade for the course to expulsion from the university for repeated offenses. Plagiarism after graduate training calls into question one's scientific integrity and can lead to banning of publication in journals and the loss of jobs/careers.

In some countries, it is an acceptable practice to write in a way that faculty members at the University of Florida would consider as plagiarism. Students studying at our university and with plans to publish their research in the English language need to know what plagiarism is and how to avoid it.

Students who plagiarize will be caught and consequences will be applied. Many faculty in our departments check all written assignments using an anti-plagiarism software called Turnitin® (<https://lss.at.ufl.edu/help/Turnitin>).

Please understand that our purpose in bringing to your attention the matter of plagiarism is to help train you to be ethical scientists, not to impugn your character.

Marston Science Library Plagiarism Guide for Science and Engineering Instructors and Students

Before you take your first class at the University of Florida, please go to the following website and work through each of the four tutorials. Topics of the four tutorials are: 1) Plagiarism, 2) UF Honor Code, 3) Citing, and 4) Tips.

<http://www.uflib.ufl.edu/msl/07b/students.html>

We encourage you to talk to your advisor or the DPM Director after you have worked through the tutorials to let him/her know you are aware of what constitutes plagiarism and how to cite appropriately.

Student Honor Code

The Student Honor Code section is copied entirely from the Dean of Students Office website:

<http://www.dso.ufl.edu/sccr/honorcodes/honorcode.php>

Preamble: In adopting this Honor Code, the students of the University of Florida recognize that academic honesty and integrity are fundamental values of the University community. Students who enroll at the University commit to holding themselves and their peers to the high standard of honor required by the Honor Code. Any individual who becomes aware of a violation of the Honor Code is bound by honor to take corrective action. Student and faculty support are crucial to the success of the Honor Code. The quality of a University of Florida education is dependent upon the community acceptance and enforcement of the Honor Code.

The Honor Pledge:

We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity by abiding by the Honor Code.

On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: "On my honor, I have neither given nor received unauthorized aid in doing this assignment."

(3) VIOLATIONS OF THE STUDENT HONOR CODE.

- (a) Plagiarism. A student shall not represent as the student's own work all or any portion of the work of another. Plagiarism includes but is not limited to:
 1. Quoting oral or written materials such as those found on the internet, whether published or unpublished, without proper attribution.
 2. Submitting a document or assignment which in whole or in part is identical or substantially identical to a document or assignment not authored by the student.

- (b) Unauthorized Use of Materials or Resources (“Cheating”). A student shall not use unauthorized materials or resources in an academic activity. Unauthorized materials or resources shall include:
1. Any paper or project authored by the student and presented by the student for the satisfaction of any academic requirement if the student previously submitted substantially the same paper or project to satisfy an academic requirement and did not receive express authorization to resubmit the paper or project.
 2. Any materials or resources prepared by another student and used without the other student’s express consent or without proper attribution to the other student.
 3. Any materials or resources which the faculty member has notified the student or the class are prohibited.
 4. Use of a cheat sheet when not authorized to do so or use of any other resources or materials during an examination, quiz, or other academic activity without the express permission of the faculty member, whether access to such resource or materials is through a cell phone, PDA, other electronic device, or any other means.
- (c) Prohibited Collaboration or Consultation. A student shall not collaborate or consult with another person on any academic activity unless the student has the express authorization from the faculty member.
1. Prohibited collaboration or consultation shall include but is not limited to:
 - a. Collaborating when not authorized on an examination, take-home test, writing project, assignment, or coursework.
 - b. Collaborating or consulting in any other academic or co-curricular activity after receiving notice that such conduct is prohibited.
 - c. Looking at another student’s examination or quiz during the time an examination or quiz is given. Communication by any means during that time, including but not limited to communication through text messaging, telephone, email, other writing or verbally, is prohibited unless expressly authorized.
 2. It is the responsibility of the student to seek clarification on whether or not use of materials or collaboration or consultation with another person is authorized prior to engaging in any act of such use, collaboration or consultation. If a faculty member has authorized a student to use materials or to collaborate or consult with another person in limited circumstances, the student shall not exceed that authority. If the student wishes to use any materials or collaborate or consult with another person in circumstances to which the authority does not plainly extend, the student shall first ascertain with the faculty member whether the use of materials, collaboration or consultation is authorized.
- (d) False or Misleading Statement Relating to a Student Honor Code Violation. In reporting an alleged Student Honor Code violation, a student shall not intentionally or in bad faith make a false or misleading statement. During the course of a Student Honor Code proceeding, or on final appeal following such a proceeding, a student shall not at any time make a false or misleading statement to any person charged with investigating or deciding the responsibility of the accused, reviewing a finding of responsibility, or determining or reviewing the appropriateness of the sanction or sanctions to be recommended or imposed.
- (e) False or Misleading Statement for the Purpose of Procuring an Academic Advantage. A student shall not intentionally or in bad faith make a false or misleading statement for the purpose of procuring from the person to whom the statement is made an academic advantage for any student.
- (f) Use of Fabricated or Falsified Information. A student shall not use or present invented or fabricated information, falsified research, or other finding if the student knows or in the exercise of ordinary care should be aware that the information, research, or other finding has been fabricated or falsified.

- (g) Interference with or Sabotage of Academic Activity. A student shall not do any act or take any material for the purpose of interfering with or sabotaging an academic activity. Sabotage includes, but is not limited to:
 1. Removing, concealing, damaging, destroying, or stealing materials or resources that are necessary to complete or to perform the academic activity.
 2. Tampering with another student's work.
 3. Stealing from another student materials or resources for the purpose of interfering with the other student's successful completion or performance of the academic activity or of enhancing the offending student's own completion or performance.
- (h) Unauthorized Taking or Receipt of Materials or Resources to Gain an Academic Advantage. A student shall not without express authorization take or receive materials or resources from a faculty member for the purpose of gaining academic advantage.
- (i) Unauthorized Recordings. A student shall not without express authorization from the faculty member and, if required by law, from other participants, make or receive any recording, including but not limited to audio and video recordings, of any class, co-curricular meeting, organizational meeting, or meeting with a faculty member.
- (j) Bribery. A student shall not offer, give, receive, or solicit a bribe of money, materials, goods, services or anything of value for the purpose of procuring or providing an academic advantage.
- (k) Submission of Paper or Academic Work Purchased or Obtained from an Outside Source. A student shall not submit as his or her own work a paper or other academic work in any form that was purchased or otherwise obtained from an outside source. An outside source includes but is not limited to a commercial vendor of research papers, a file of research papers or tests maintained by a student organization or other body or person, or any other source of papers or of academic work.
 - (1) Conspiracy to Commit Academic Dishonesty. A student shall not conspire with any other person to commit an act that violates the Student Honor Code.
 - (2) Student Honor Code Sanctions. For a violation or violations of the Honor Code, a student may receive any of the sanctions that can be imposed for Student Conduct Code violations, including but not limited to conduct probation, suspension and expulsion as well as any educational sanctions. In addition, students may receive the following:
 - (a) Assignment grade penalty. The student is assigned a grade penalty on an assignment including but not limited to a zero.
 - (b) Course grade penalty. The student is assigned a grade penalty in the entire course including but limited to an "E".
 - (3) Student Conduct Code Sanctions.
 - (a) Reprimand: The student is given formal written notice and official recognition that the behavior has violated the Student Conduct Code.
 - (b) Loss of University Privileges: Loss of University privileges comprises the denial of specific University privileges including but not limited to attendance at athletic functions, unrestricted library use, parking privileges, university computer usage, and residence hall visitation for a designated period of time.
 - (c) Conduct Probation: The student is deemed not in good standing with the University. Students on conduct probation cannot represent the University on any athletic team other than intramurals, hold an office in any student organization registered with the University, represent the University in any extracurricular activity or official function or participate in any study abroad program. The duration of any probation period or any conditions or sanctions imposed for the violation shall be in proportion to the seriousness of the violation and imposed on an individual basis by the sanctioning authority. Individuals placed on conduct probation are subject to suspension or expulsion should they violate the conditions of probation or any University regulations or policies while on conduct probation.

- (d) **Deferred Suspension:** The student will be officially suspended from the University, but the suspension will be deferred. The suspension will automatically be enforced for any subsequent violation of the Student Honor Code or Student Conduct Code, as applicable. The hearing authority will specify when issuing a deferred suspension which violations will automatically trigger the enforcement of the deferred suspension. If a student commits a violation of the Student Honor Code or Student Conduct Code, as applicable, while on deferred suspension and is found responsible, then, unless the Director of Student Conduct and Conflict Resolution determines otherwise in exceptional circumstances, the student is automatically suspended in addition to the other sanctions imposed for the subsequent violation. Suspensions can be deferred for a semester or indefinitely.
- (e) **Suspension:** The student is required to leave the University for a given or indefinite period of time, the determination of which shall depend upon specified acts of the student's own volition related to mitigation of the offense committed. The student must comply with all conditions imposed prior to re-enrolling unless told otherwise by the hearing authority. Students who are suspended for more than one semester will need to apply for readmission.
- (f) **Expulsion:** The student is permanently deprived of his or her opportunity to continue at the University in any status.
- (g) **Restitution:** The student is required to pay for loss of or damages to University property, provided that such payment shall be limited to the actual cost of repair or replacement of such property.
- (h) **Repair of Harm through Community/University Service Work Hours:** A student is required to complete a specified number of hours of service to the campus or general community.
- (i) **Educational Requirements:** A student is required to complete a specified educational sanction related to the violation committed. Such educational requirements include completion of a seminar, report, paper, project, alcohol or drug consultation, counseling consultation or psychological evaluation.
- (j) **Residence Hall Transfer or Removal:** A student is required to transfer residence halls or leave the residence halls for a specified or indefinite period of time.
- (k) **No Contact Order:** A no contact order is a directive to refrain from any intentional contact, direct or indirect, with one or more designated persons or group(s) through any means, including personal contact, email, telephone, or third parties.

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DPM-BRIEF PROGRAM OVERVIEW

The Doctor of Plant Medicine (DPM) degree is a professional, doctoral degree program.

Students study a comprehensive interdisciplinary curriculum that includes the disciplines of Agronomy, Horticulture, Entomology, Nematology, Plant Pathology and Soil and Water Science. Graduates of the DPM program are employed as entomologists, plant pathologists, agronomists, and interdisciplinary scientists. Industry, government, and academia have employed highly trained Plant Doctors from the UF, DPM Program. For the latest DPM program information, visit the DPM website.

All DPM students are required to complete the following minimum requirements:

- 84-85 credit hours of coursework
- 15-16 credit hours of internship

The DPM Program is not a research-based PhD program. The DPM Program provides intensive interdisciplinary knowledge and critical thinking skills for Plant Doctors. PhD students intensively focus their research efforts on a single area of expertise. Exceptional students may co-enroll in a research MS or PhD program within one of the participating DPM departments. DPM students without a research-based MS degree are required to complete a research experience as one of his/her substantial internships. All DPM students are required to complete two 3-credit substantial internships (ALS 6943). **Each DPM student must receive committee and DPM Director approval prior to registering for his/her substantial internship.** A summary of substantial internship requirements include the following:

1. One internship must be in industry or the private sector.
2. One internship must occur outside of Gainesville, Florida.
3. The outside of Gainesville, FL internship may also fulfill the industry requirement if the industry internship is outside of Gainesville, FL.
4. Committee and DPM Director approval should occur at least 30 days prior to the first day of classes for the semester with a substantial internship.
5. Substantial internship proposals should include at least 5-10 refereed journal article citations. Learning goals should be clearly articulated within substantial internship proposals.
6. A 10-page summary will be provided no later than 30 days following completion of the substantial internship.
7. **Students are required to complete all committee and DPM Director revisions to the substantial internship proposal and summary documents.**
8. Students are strongly encouraged to complete all written competency area exams prior to completion of his/her final substantial internship.

Application Deadlines

For full consideration regarding graduate assistantships, please complete your application by the following deadlines:

Fall Term – February 15

Spring Term – July 15

Deadlines may be extended if suitable candidates are not identified. After the applicant's file is complete, an Admissions Committee reviews and provides a recommendation to the DPM Director. **Admission to the DPM Program does not guarantee assistantship funding.** The DPM Director and the Admissions Committee reserve the right to only fund highly qualified candidates. DPM students may also be funded by his/her advisor or self-funded. The DPM Director and the Admissions Committee may consider the admission of self-funded applicants throughout the year. The DPM Director and the Admissions Committee reserve the right to not award any First Year Assistantships or to extend the application deadline.

If the applicant is accepted, a letter of acceptance will be submitted to the applicant.

The applicant will be required to provide a signature of acceptance for program admission. If an applicant does not meet all of the minimum requirements, including below minimum GPA or GRE scores, the department may petition the Graduate School for the applicant to be accepted on a conditional basis. The DPM Program will generally not petition for admitting students that do not meet the standards of the University of Florida, Graduate School. If the conditional admission is accepted, the applicant is required throughout his/her program of study to maintain a 3.0 GPA "B" average or better. Additionally, admission to the program does not guarantee the receipt of a first year assistantship award.

Admission Requirements to the Doctor of Plant Medicine (DPM) Program

An applicant must meet the following minimum requirements for DPM Program Admission:

- Possess a BS (or BA) degree from an accredited college or university, preferably but not necessarily, in an agricultural science or related biological discipline. An MS in an agricultural science discipline is preferred.
- Earn a minimum Grade Point Average (GPA) of a B (3.0) in all upper-division graduate coursework taken.
- Possess an acceptable score on both the Verbal and Quantitative sections of the Graduate Record Exam (GRE) (combined score should be 300 or higher).
- Applicants from countries where English is not the native language must also achieve a satisfactory score on one of the following:
TOEFL-Test of English as a Foreign Language: Computer=213, Paper=550, Web=80
IELTS-International English Language Testing System: 6 MELAB-Michigan English Language Assessment Battery: 77 or successful completion of the University of Florida English Language Institute program.
- Obtain three quality letters of reference.

Applicants are required to meet the University of Florida graduate admissions policies. All applicants must submit their application online to the UF graduate school. The DPM Director and the DPM Admissions Committee may deny admissions of an applicant even if minimum criteria are met.

DPM Student Application Process

It is the applicant's responsibility to provide complete documentation to the Office of Admissions and Doctor of Plant Medicine Program department by the fall (February 15) and spring (July 15) deadlines.

The University of Florida International Center (UFIC, <http://www.ufic.ufl.edu/>) will request the Certificate of Financial Responsibility for international applicants if your admission is approved and accepted.

You will need Adobe Reader (<http://get.adobe.com/reader/>) to open some of the documents below.

UF Office of Admissions

1. Graduate Application.

The University of Florida requests that applicants submit the graduate application online at: <http://www.admissions.ufl.edu/start.html>

A non-refundable \$30 application fee is required. Submission of official GRE and TOEFL scores to the University of Florida is also required.

2. Entomology and Nematology Department
Plant Medicine Program

DPM specific application questions can be directed to Program Assistant, Ms. Elena Alyanaya (ealyanaya@ufl.edu) or Program Director, Dr. Amanda Hodges (achodges@ufl.edu).

1. Official Transcripts (sealed envelope).

Please have previous colleges attended mail official transcripts to the program address above.

International students must submit official transcript(s), diploma(s), and degree(s)

- a) in his/her country's original language
- b) in the English language
- c) Include a copy of the diploma

2. Copy of GRE Scores

- Request a copy of the GRE scores for yourself.
- Electronic scores are available for your student file.
- There is no need to send a paper-based copy of the scores.

3. Copy of TOEFL Scores

(International applicants only)

- Request a copy of the GRE scores for yourself.
- Electronic scores are available for your student file.
- There is no need to send a paper-based copy of the scores.

4. Statement of Purpose

A Statement of Purpose must be written by the applicant that provides a brief description of:

- Your background
- Career and educational goals
- Future plans

5. Resume or Curriculum Vitae

The resume or vitae should include:

- Education
- Related field work
- Internships
- Scholarships
- Awards

6. Three Letters of Recommendation (LOR).
Please have your three references submit the LOR along with a cover letter through the online graduate application.
7. Download the University of Florida residency reclassification form at: <http://www.registrar.ufl.edu/pdf/residencyreclass.pdf>
8. Download the latest University of Florida immunization form at: <http://shcc.ufl.edu/services/primary-care/immunizations/>

FINANCIAL ASSISTANCE

First Year Doctor of Plant Medicine (DPM) Assistantships

A limited number of Graduate Assistantships are available to students enrolling in the DPM Program. These funds are awarded on a highly competitive basis to qualified Doctor of Plant Medicine (DPM) students. Assistantships are generally awarded to first year students, but assistantships may also be awarded to exceptional students after the first year to assist with specific program operations. Application Deadline: February 15 or until a suitable pool of applicants is identified. DPM students may also be funded by his/her academic advisor.

Student applicants for first year assistantships will be evaluated by a committee. GPA, GRE, statement of purpose, prior course work, references, and previous degrees will be considered in the evaluation process.

Latin America and the Caribbean Scholarships

Thanks to an agreement with the Florida State Legislature, students not on assistantships who are residents of Latin American and Caribbean countries may qualify for in-state tuition if they are recipients of a minimum scholarship of \$500/semester. Other international students wishing to enroll in the Doctor of Plant Medicine Program are advised to seek financial assistance, if needed, from their government or from national and international granting organizations. Please contact the DPM Director to discuss this funding opportunity.

General Funding Strategies

DPM students have often identified funding through projects within the component departments of the Plant Medicine Program (Agronomy, Entomology/Nematology, Plant Pathology, etc.), part time jobs, scholarships and fellowships, low cost student loans and various combinations of these strategies. A dual MS/DPM degree is also possible.

UF, Santa Fe College Development Project

The UF, Office of Graduate Minority Programs provides an opportunity for minority and underrepresented domestic students at the University of Florida to gain valuable teaching experience at Santa Fe Community College. The application deadline occurs during the spring every year. Please visit the UF, Office of Graduate Minority Programs for more information at: <http://graduateschool.ufl.edu/finances-and-funding/uf-sfcc-development-project>.

UF, Supplemental Retention Scholarship

The UF, Office of Graduate Minority Programs offers supplemental retention scholarships for domestic minority doctoral students who are three or fewer semesters from graduation and no longer eligible to receive either assistantship or fellowship support. Please visit the UF, Office of Graduate Minority Programs for more information at: <http://graduateschool.ufl.edu/finances-and-funding/supplemental-retention-scholarships>.

Fellowship/Assistantship Requirements

It is the policy of UF/CALS that students must maintain a 3.0 GPA (“B” average) or better in order to remain in graduate school and to continue their assistantship or fellowship. Opportunities available throughout the University of Florida Graduate School will be periodically posted at: <http://graduateschool.ufl.edu/finances-and-funding/graduate-campus-employment>

Previous DPM students have been employed as tutors or a Graduate Assistant within the Office of Academic Support. Please contact the Office of Academic Support for further information regarding volunteer or paid position opportunities at: <http://oas.aa.ufl.edu/employmentvolunteer-opportunities.aspx>

Florida Residency for Tuition Purposes

Out of state students who are United States citizens can apply for Florida resident status at the end of their first year in the state. To qualify students must take the appropriate actions **as soon as they come on campus** and apply for Florida residency in a timely fashion. Subsequently, as Florida residents, they qualify for the lower in-state tuition rates.

See: Establishing Florida Residency (<http://www.admissions.ufl.edu/residency/>).

DEGREE REQUIREMENTS

NOTE: It is the responsibility of the student to observe all regulations and procedures required by the program he/she is pursuing. The Graduate Catalog is the ultimate authority on regulations and procedures (<http://graduateschool.ufl.edu/academics/graduate-catalog>). Ignorance of a rule does not constitute a basis for waiving that rule.

The DPM degree requires 84-85 semester credits of approved graduate coursework and 15-16 credit hours of approved internship credits. All full-time DPM students should have an approved DPM Committee by the beginning of his/her second semester. All part-time students should have an approved DPM Committee by the beginning of his/her third semester. All DPM students must have a representative graduate faculty member from each competency area (Plant, Soil, and Weed Science; Entomology and Nematology; and Plant Pathology) on his/her committee. All DPM students must submit a Program of Study for Committee and DPM Director Approval by his/her second semester of full-time enrollment. Part-time students must submit his/her Program of Study for Committee and DPM Director Approval by the end of his/her third semester.

Specifically, DPM students must complete credits within the following competency areas:

1. Plant, Soil, and Weed Science, Table 1 (18 credits)
2. Entomology and Nematology, Table 2 (18 credits)
3. Plant Pathology, Table 3 (16 credits)
4. Other Credits, Table 4 (18-19 credits)
5. Elective Credits(13-15)
6. DPM Internships, Table 5 (15-16)

DPM Elective Courses must be graded credits. DPM students should choose from the competency area courses provided. Additional graduate level courses as Elective Credits may be considered for approval by the student's advisory committee and the DPM Director. DPM students must pass written competency area exams in the following areas: Plant, Soil, and Weed Science; Entomology and Nematology; and Plant Pathology. The University of Florida's Registrar website contains the most relevant information regarding course information:

<http://www.registrar.ufl.edu/soc/> . Course instructors can also be contacted to confirm their intent to teach a course within a given semester. The DPM Program is a multidisciplinary partnership; therefore, course schedules are not static as personnel responsibilities or changes occur.

All DPM students must pass their written Competency Area Exams (Plant, Soil, and Weed Science; Entomology and Nematology; and Plant Pathology) and a final interdisciplinary oral exam.

For exam schedule details and study guides, visit the DPM website at:

<http://www.ufplantdoctors.org/>

All students are required to complete two 3-credit substantial internships (ALS 6943). Each DPM student must receive committee and DPM Director approval prior to registering for his/her substantial internship. A summary of substantial internship requirements include the following:

1. One internship must be in industry or the private sector.
2. One internship must occur outside of Gainesville, Florida.
3. The outside of Gainesville, FL internship may also fulfill the industry requirement if the industry internship is outside of Gainesville, FL.

4. Committee and DPM Director approval should occur at least 30 days prior to the first day of classes for the semester with a substantial internship.
5. Substantial internship proposals should include at least 5-10 refereed journal article citations. Learning goals should be clearly articulated within substantial internship proposals.
6. A 10-page summary will be provided no later than 30 days following completion of the substantial internship.
7. Students are required to complete all committee and DPM Director revisions to the substantial internship proposal and summary documents.
8. Students are strongly encouraged to complete all written competency area exams prior to completion of his/her final substantial internship.

Table 1: Core DPM Plant, Soil, and Weed Science Competency Area Courses-Select 18 Credits (Program of Study Approval by the Supervisory Committee and Program Director Approval Required)

Course Number	Course Name	Credits
AGR 6422C	Environmental Crop Nutrition	3
HOS 6412*	Nutrition of Horticultural Plants	3
AGR 6442C	Physiology of Agronomic Plants	4
HOS 6932*	Special Topics	1-4, max 8
AGR 5511*	Crop Ecology	3
PLS 5632C	Integrated Weed Management	3
PLS 6655*	Plant/Herbicide Interaction	3
SWS 5115*	Environmental Nutrient Management	3
SWS 6136*	Soil Fertility	3
SWS 5050, SWS 5050L	Soils for Environmental Professionals	4
AGR 5277C	Tropical Crop Production	3
SWS 5208	Sustainable Agricultural and Urban Land Management	3
SWS 5305C	Soil Microbial Ecology	3
SWS 5406	Soil and Water Chemistry	3
AGR 5215C	Integrated Field Crop Science	3
AGR 6322	Advanced Plant Breeding	3
AGR 6325L	Plant Breeding Techniques	1
AOM 5431	GIS and Remote Sensing in Agriculture and Natural Resources	3

*Course originally listed within the core curriculum for the Plant, Soil, and Weed Science Competency Area

Table 2: Core DPM Entomology and Nematology Competency Area Courses-Select 18 Credits (Program of Study Approval by the Supervisory Committee and Program Director Approval Required)

Course Number	Course Name	Credits
ENY 5006 and 5006L	Graduate Survey in Entomology	3
ENY 6166*	Insect Classification	3
ENY 5611*	Immature Insects	4
ENY 6651C*	Insect Toxicology	3
ENY 5245*	Agricultural Acarology	2
ENY 5236*	Insect Pest and Vector Management	3
NEM 5707C*	Plant Nematology	3
ENY 5405	Insects as Vectors of Plant Pathogens	3
ENY 5516	Turf and Ornamental Entomology	3
ENY 5820	Insect Molecular Genetics	3
ENY 5566	Tropical Entomology	3
ENY 5564	Tropical Entomology Field Laboratory	2
ENY 5572	Advanced Apiculture	3
ENY 6203 and ENY 6203L	Insect Ecology	4
ENY 6401 and ENY 6401L	Insect Physiology	4

*Course originally listed within the core curriculum for the Plant, Soil, and Weed Science Competency Area

Table 3: Core DPM Plant Pathology Competency Area Courses—Select 16 Credits (Program of Study Approval by the Supervisory Committee and Program Director Approval Required)

Course Number	Course Name	Credits
PLP 5005C	General Plant Pathology	4
PLP 5102*	Theory and Practice of Plant Disease Control	3
PLP 5115C	Citrus Pathology	3
PLP 6656C*	Fungal Biology	4
PLP 6223C*	Viral Pathogens of Plants	3
PLP 6241C*	Bacterial Plant Pathogens	3
PLP 6262C	Fungal Plant Pathogens	3
PLP 6303	Host-Parasite Interactions II	3
PLP 6404*	Epidemiology of Plant Disease	4
PLP 6502	Host-Parasite Interactions I	3
PLP 5155	Microbiological Control of Plant Diseases and Weeds	3
PLP 6621C	Pop Genetics of Microbes	3
PLP 6291	Plant Disease Diagnosis	3

*Course originally listed within the core curriculum for the Plant, Soil, and Weed Science Competency Area

Table 4: Other Core DPM Courses (15-16 Credits)

Course Number	Course Name	Credits
AEB 4123*	Agricultural and Natural Resource Law	3
ALS 6931*	Plant Medicine Program Seminar	1
ALS 6925*	Integrated Plant Medicine	4
IPM 5305*	Principles of Pesticides	3
PMA 6228	Field Techniques in Integrated Pest Management	2
ALS 5932, AGR 5266C, or a Graduate-Level Statistics Course	Special Topics (Research Methods in Plant Health Management), Field Plot Techniques, or a Graduate-Level Statistics Course	3

Table 5: Core DPM Internships (15-16 Credits)

Course Number	Course Name	Credits
ALS 6943	Internship in Plant Pest Risk Assessment and Management ¹	6
AGR 6932 ² , SWS 6932 ² , ORH 7941 or Approved Interdisciplinary Internship	Topics in Agronomy (Weed Science Internship), Topics in Soils (Soil Plant Tissue Testing Internship), Doctor of Plant Medicine: Internship in Environmental Horticulture or Approved Interdisciplinary Internship	2-3
ENY 6942	Insect Diagnostics	2
NEM 6942	Nematode Diagnostics	2
PLP 6942	Professional Internship in Plant Disease Clinic	3

¹The Internship in Plant Pest Risk Assessment and Management Course (ALS 6943) will be used as the course number for two 3-credit substantial internship. DPM Committee and Director approval is required prior to registration.

Electives

Students may choose from several optional core courses as well as 13-15 elective credits. The student's advisory committee and Program Director must approve the selection of elective credits. Elective credits may consist of traditional credits and up to 6 credits of graduate-level directed research and excludes internship credits. Students without research experience will be strongly encouraged to complete 6 credits of directed graduate research as a component of their degree program.

Completion of Degree Requirements

Degree completion depends upon a student's progress within his/her program of study, successful completion of the substantial internship requirement, and completion of comprehensive exams. A DPM degree may be completed in 4 years. An MS/DPM degree may be completed in 4-5 years. Qualified students with a related MS degree may complete the program in 3 years.

Registration

Students enrolled at the University of Florida may pre-register for the next semester, register during the regular registration period, or register late during the drop/add period. Currently, the charge for late registration is \$100.00, and the charge for late payment of fees is \$100.00. To avoid these charges, register on time and pay fees on time. You may register through ISIS (Integrated Student Information System), or with the assistance of program assistant, Elena Alyanaya (ealyanaya@ufl.edu). Registration requirements for graduate students on assistantships and fellowships are available at: <http://www.hr.ufl.edu/academic/regrequirements.asp>. Part-time graduate students not on assistantship are required to register for 3 credits during fall and spring semesters, and 2 credits during summer C (or 1 credit each in summer A and summer B). Graduate students not on assistantship during their final term are required to register for the credit hour minimum requirement for part-time students. Minimum graduate student registration requirements are separate from financial aid registration requirements. Contact Student Financial Affairs for more information regarding student financial aid registration requirements (<http://www.sfa.ufl.edu/>). Students who do not register properly for each semester that they hold a graduate assistantship will not be permitted to remain on an assistantship.

Drop/Add

During the drop/add period the student may drop and add courses with no penalty but must have prior advisor approval. After the regular drop/add period, the student will be held fee liable for any dropped course or change number. **To be clear, you will be charged tuition and fees for the course(s) that you drop after the drop/add. Changing sections within a course or changing the number of credits within a section are considered by the office to be equivalent to dropping a course (as the old section must be “dropped” and the new section “added”). It is the student’s responsibility to make sure that their registration is correct before the end of drop/add period.** If a student on assistantship drops to less than the minimum number of required credits per semester, he/she will lose the assistantship, and, must reimburse the University for fees waived and may be liable for the stipend paid that semester.

Final Comprehensive Examinations

Both written and oral comprehensive examinations are required of all DPM students. The written examination has three sections: Plant, Soil, and Weed Science; Entomology and Nematology; and Plant Pathology. Visit the DPM website for the latest written exam schedule.

After a student passes all three sections of the final written examination (80% or higher is considered a passing grade), the supervisory committee administers an oral examination that tests the student’s ability to synthesize what was learned in their program of study in order to diagnose and manage plant health problems. A student who fails to pass a comprehensive examination may retake it within 3 months pending the recommendation of the student’s committee.

SPECIALIZATIONS & CERTIFICATES FOR DPM STUDENTS

DPM students are broadly trained, but may choose to have a focal group of specialized courses. The DPM Program currently offers a certificate in Plant Pest Risk Assessment and Management. See Appendix B for further details.

SUPERVISORY COMMITTEE

Plant Medicine Program Appointment and Duties of Student Supervisory Committee

Establishment of the Committee

As with all graduate students, each Doctor of Plant Medicine (DPM) student shall establish a Supervisory Committee (S/C). Supervisory Committee establishment should take place by the midpoint of the student's first semester in the program, but must occur by the beginning of the second semester for full time students. The S/C must consist of a minimum of three graduate faculty members, one each from the discipline areas of Entomology/ Nematology, Plant Pathology, and Plant/Soil Science (Agronomy, Environmental Horticulture, Forestry, Horticultural Sciences, or Soil and Water Science). It may be advantageous for a student to select a faculty member located at a UF research and education center (UF, REC) as a member or chair of their supervisory committee. Please note that individuals not on the graduate faculty may serve as a special member of a committee only.

It will also be possible and often advantageous for other qualified individuals outside of UF (those in industry, private practice, government, etc.) to serve as members of the S/C by Special Appointment. Instructions for this process and the necessary form may be found at the UF Graduate School Website (<http://graduateschool.ufl.edu/personnel-and-policy/roles-and-responsibilities-of-graduate-faculty>). The student will consult with and request one of the faculty of the S/C (excluding the special member) to be appointed and serve as Chair of the Committee.

Visit the DPM website for the latest forms. The DPM signature form is also available in Appendix C. The student should request signatures from faculty who have agreed to serve on your S/C and bring it to the Program Director for approval. The committee will be approved by the DPM Program Director and by the Dean of the College of Agricultural and Life Sciences, and is appointed by the Dean of the Graduate School of the University of Florida. Copies will be sent back to your S/C committee chair and the program Director after it has been processed. The DPM Program assistant enters your S/C information into the university database.

Following appointment of the Committee and the Chair, the DPM student will also be considered a graduate student of the department of the Chair as well as the DPM Program. All documents and official correspondence concerning the student, however, must be approved and signed by the Director of the Plant Medicine Program, with copies of such documents, whenever needed, provided to the department of the Supervisory Committee chair.

Duties of the Committee

The entire Supervisory Committee will meet with the student soon after appointment and **at least twice a year** to recommend courses and internships and review the progress of the student in mastering the discipline of Plant Medicine. It is the specific responsibility of the S/C to routinely assess a student's synthesis of information from coursework and internships for the purpose of plant problem solving and plant health management. The committee will also be responsible for assessing the student's knowledge, skills, and professional behavior on an annual basis through a student-learning based assessment rubric. The S/C will also be responsible for assessing student learning outcomes from their two substantial internship experiences based on a rubric assessment.

The S/C discusses with the student and recommends to the Program Director any graduate courses that the student may have taken previously at UF or other institutions for which the student should be given credit towards the DPM degree. The S/C will also administer a final oral exam that will follow successful completion of the final DPM comprehensive written exams. The oral exam will assess the ability of the DPM student to diagnose and make recommendations for specific plant health problems (Refer to DPM Final Oral Exam Guidelines). Each S/C member will be responsible for submitting a rubric-based assessment to the Program Assistant in regards to the oral exam. **The final oral exam will be administered during the student's final semester.**

The Chair of the S/C will meet routinely with the student throughout the semester to review the student's academic performance and to discuss the selection of future courses and internships. During one of the semesters or years of the student's course of study, the Chair of the S/C should provide some hands-on work experience for the student in their program or laboratory. A close mentorship relationship between the student and their S/C should occur either during the first year assistantship period or at a later point during the student's professional development. When the student is not otherwise located in another program or laboratory, the Chair of the S/C should consider the student as a member of his/her laboratory for professional development purposes. The Program Director will perform these activities until the S/C is established. The Chair, a member of the S/C, or another UF graduate faculty member who has appropriate expertise will interact with qualified non-UF faculty located off campus concerning student internships. The same UF faculty member will also evaluate and grade internships in their discipline performed under non-UF supervisors.

APPENDIX A

FACULTY OF DOCTOR OF PLANT MEDICINE PROGRAM

Entomology and Nematology

1. Dr. Steven Arthurs, Department of Entomology/Nematology, MREC, Apopka, FL
2. Dr. Janete Brito, Division of Plant Industry, Florida Department of Agriculture and Consumer Services, Gainesville, FL
3. Dr. Gillett-Kaufman, Department of Entomology/Nematology, Gainesville, FL
4. Dr. Susan Halbert, Division of Plant Industry, Florida Department of Agriculture and Consumer Services, Gainesville, FL
5. Dr. Amanda Hodges, Department of Entomology/Nematology, Gainesville, FL
6. Dr. Greg Hodges, FDACS, Division of Plant Industry, Gainesville, FL
7. Dr. Bill Kern, Department of Entomology/Nematology, FLREC, Ft. Lauderdale, FL
8. Dr. Norman Leppla, Department of Entomology/Nematology, Gainesville, FL
9. Dr. Oscar Liburd, Department of Entomology/Nematology, Gainesville, FL
10. Dr. Catharine Mannion, Department of Entomology/Nematology, TREC, Homestead, FL
11. Dr. Gregg Nuessly, Department of Entomology/Nematology, Everglade REC, Belle Glade, FL
12. Dr. Dakshina Seal, Department of Entomology/Nematology, TREC, Homestead, FL
13. Dr. Hugh Smith, Entomology/Nematology, Gulf Coast REC, Wimauma, FL

Plant Pathology

14. Dr. Nick Dufault, Department of Plant Pathology, Gainesville, FL
15. Dr. Monica Elliott, Department of Plant Pathology, FLREC, Ft. Lauderdale, FL
16. *Dr. Carrie Harmon, Department of Plant Pathology, Gainesville, FL
17. Dr. Jason A. Smith, School of Forest Resources and Conservation, Gainesville, FL
18. Dr. Matthew Smith, Department of Plant Pathology, Gainesville, FL
19. Dr. Ariena Van Brueggen, Department of Plant Pathology, Gainesville, FL

Plant, Soil and Weed Science

20. Dr. Pete Andersen, North Florida Research & Education Center/Quincy, FL
21. Dr. John Erickson, Department of Agronomy, Gainesville, FL
22. Dr. Fred Fishel, Department of Agronomy, Gainesville, FL
23. Dr. William T. Haller, Center for Aquatic and Invasive Plants. Gainesville, FL
24. Dr. Greg Macdonald, Department of Agronomy, Gainesville, UF
25. Dr. Kimberly Moore, Department of Environmental Horticulture, FLREC, Ft. Lauderdale, FL
26. Dr. Rao S. Mylavarapu, Department of Soil and Water Science, Gainesville, FL
27. *Dr. Michelle Samuel-Foo, Department of Food Science and Human Nutrition, Gainesville, FL
28. Dr. Steven Sargent, Department of Horticulture, Gainesville, FL
29. Dr. Danielle Treadwell, Department of Horticultural Sciences, Gainesville, FL
30. Dr. Joao Vendramini, Department of Agronomy, Range Cattle REC, Ona, FL

Abbreviations

- IFAS: Institute of Food and Agricultural Sciences, University of Florida. Includes the College of Agricultural and Life Sciences, Experiment Station, and Extension Service.
- REC: Research and Education Center. A branch research and education unit of IFAS.
- FDACS/DPI: Florida Department of Agriculture and Consumer Services, Division of Plant Industry.
- CMAVE/USDA: Center for Medical, Agricultural, and Veterinary Entomology, United States Department of Agriculture.
- * Not currently graduate faculty. May be considered as a special member for committee service.

APPENDIX B

Certificate in Plant Pest Risk Assessment and Management

Students must apply online before completing the Graduate Certificate in Plant Pest Risk Assessment. Students do not need to enroll in DPM in order to complete this certificate. Applicants must meet University of Florida standards for Graduate Certificate Admission.

Students are required to obtain at least 16 credits for the Certificate in Plant Pest Risk Assessment and Management distributed as follows:

Core Courses/Internships (10 Credits)

UF Course Number	Course Name*	Credits
ALS 6942	Principles of Plant Pest Risk Assessment and Management	3 credits
ALS 6921	Colloquium on Plant Pests of Regulatory Significance	1 credit
ALS 6943	Internship in Plant Pest Risk Assessment and Management	6 credits

Elective Courses (at least 6 credits)

Students must select at least one course from each group

Group 1 – Technical (3 credits)

UF Course Number	Course Name*	Credits
ALS 6166	Exotic Species and Biosecurity Issues	3 credits
PLP 6404	Epidemiology of Plant Disease	4 credits
AOM 5431	GIS and Remote Sensing in Agriculture and Natural Resources	3 credits

Group 2 – Policy (3 credits)

UF Course Number	Course Name*	Credits
AEB 6933	Special Topics	1-6 credits
AEC 6540	Ag and Natural Resources Communications Theory and Strategy	3 credits
ENV 6932P	Environmental Institutions and Regulations	3 credits
ENV 5075	Environmental Policy	3 credits
ENV 6932	Special Problems in Environmental Engineering	1-4 credits
ENV 6932	Natural Resources and Environmental Policy	3 credits
PUP 6006	Policy Evaluation	3 credits
PUP 6007	Policy Process	3 credits
AEC 5060	Public Opinion and Agricultural and Natural Resource Issues	3 credits
PUP 6009	Public Policy Analysis	3 credits
AEB 6225	Public Policy and Agribusiness Firm	3 credits

APPENDIX C

PLANT MEDICINE SUPERVISORY COMMITTEE SIGNATURE FORM

Student: _____ **UFID#** _____ **Date** _____

(Print)

	UFID	Name (Print	Signature	Department	Date
Chair:					
Co-chair:					
Member:					
Member:					
Member:					
Special Member:					
DPM Director Approval:					

APPENDIX E

University and Departmental Leave Policies

Excerpted from the Agreement between the University of Florida Board of Trustees and Graduate Assistants United 2011-2014 http://hr.ufl.edu/wp-content/uploads/docs/Final_copy_GAU_Contract.pdf

Article 10

LEAVES OF ABSENCE

10.1 An employee shall not be required to perform assigned duties when:

- (a) disabled or otherwise unable to perform them because of injury, illness (physical or mental), jury duty, required U.S. military service, or when unable to so perform because the employee's presence is required elsewhere because of injury, illness, or death in the immediate family. Immediate family shall consist of mother, father, spouse, sister, brother, child, a person in a legal dependent relationship with the employee, or other relative living in the employee's household. The employee shall notify the supervisor of the inability to serve as soon as possible.
- (b) The university is closed for a state holiday or a declared emergency, unless the special conditions of the appointment require the employee to perform duties at these times. These days shall not be held against the employee with regard to permitted days of leave pursuant to Section 10.2.
- (c) Taking examinations for professional licensing related to the degree or qualifying examinations are required by the university. These days shall not be held against the employee with regard to permitted days of leave pursuant to Section 10.2.
- (d) Traveling to conferences or other events for professional development. UFBOT and the UFF-GAU encourage supervisors to facilitate professional development and approval of attendance at such events shall not be unreasonably denied. These days shall not be held against the employee with regard to permitted days of leave pursuant to Section 10.2.

10.2 Personal time under this Article shall be with pay for up to five (5) days per semester appointment. Each employee shall be credited with such five (5) days at the beginning of each semester and shall use leave in increments of not less than one (1) day. For example, an employee scheduled to work six (6) hours on Monday and three (3) hours on Tuesday, who is unable to perform assigned duties on these days for any of the reasons described above, would be charged with two (2) days of personal time, regardless of FTE appointment, or number of work hours scheduled. The personal time provided under this article shall not be cumulative.

Departmental Leave Policy (adopted October 13, 2010)

A graduate assistant unable to fulfill the duties of his/her appointment because of illness or injury shall notify his/her major professor and the administrator of his/her appointing unit as soon as circumstances permit. Similarly, a graduate assistant unable to fulfill the duties of her appointment because of pregnancy shall notify her major professor and the administrator of her major unit as soon as circumstances permit. Ideally, a student will communicate early in her pregnancy with her supervisor and develop a plan of work for the time remaining before the leave period begins. A written plan will be signed by both parties and placed in the graduate student's folder in the graduate programs office. During the illness, injury, or pregnancy, the appointing unit shall adjust (reduce, waive, or reschedule) the graduate assistant's duties as those duties and the assistant's physical circumstances reasonably dictate. If total absence from duties becomes necessary and the graduate assistant is still enrolled, the appointing unit (i.e., the individual who signs the semester letter of appointment) shall maintain the stipend of the appointment provided for a period of six weeks.

APPENDIX F: Guidelines for Dismissal of a Student from the Doctor of Plant Medicine (DPM) Program

Supervisory Committee Evaluations

Overall DPM-specific student progress is evaluated on an annual basis utilizing the annual evaluation rubric in Appendix G. Evaluations are completed by the supervisory committee chair (in consultation with the supervisory committee) by July 1st of each year. Faculty advisors may also choose to provide more frequent evaluations on an as-needed basis depending upon their employment conditions or other department specific policies for student evaluations. The faculty advisory committee will also meet with the student to discuss his/her accomplishments and future plans prior to preparing the evaluation. The supervisory chair then prepares a letter to the DPM Director that addresses whether or not the student's progress is satisfactory in the following areas:

- a. General knowledge in the core disciplines (Plant, Soil, and Weed Science; Plant Pathology; Entomology and Nematology)
- b. Critical thinking and core concept integration
- c. Professional behavior
- d. Overall progress towards degree completion

Criteria for Program Dismissal

1. An overall GPA of less than 3.0 for more than one consecutive semester.
2. A GPA of 3.0 or higher within each of the core disciplines (Plant, Soil, and Weed Science; Plant Pathology; Entomology and Nematology) is not maintained on an annual basis.
3. Grades of C- and below are not resolved by the student at the next available course opportunity.
4. Failure to establish a supervisory committee with one representative faculty member from each of the core disciplines (Plant, Soil, and Weed Science; Plant Pathology; Entomology and Nematology). Students are advised to establish a committee within their first semester. Students are subject to dismissal if a committee has not been established after their second semester.
5. Failure to have a program of study approved by the supervisory committee and the DPM Director by the third semester for full-time students and the fourth semester for part-time students.
6. The student's overall annual evaluation results in a recommendation for dismissal or suggests a redirected degree option (other than DPM) for the student. The student's supervisory committee chair will provide the DPM Director an annual letter of assessment for the student. The student's supervisory committee chair will utilize the DPM annual assessment rubric, student committee meetings, student grades, student internship assessments, and their knowledge of the student (through one-on-one interactions) to assess the student.
7. A student receives an unsatisfactory internship grade.
8. Failure in two subject area exams or a second failure in a previously-failed qualifying exam area.
9. A determination by a majority vote of the supervisory committee that satisfactory progress has not been made in course work, language acquisition, or toward the successful completion of qualifying exams or internship requirements. Students may not re-constitute an established supervisory committee to avoid a negative vote. If a majority vote does not release the student from the program, then the committee, supervisory committee members, or the DPM Director may advise the student to either reconfigure the committee or consider a voluntary withdraw from the program.
10. A judgment by the supervisory committee that the final oral exam is not acceptable.
11. Confirmed case of plagiarism or academic dishonesty in any assignment during the course of the program.

Probation and Dismissal

If a student is at risk from program dismissal due to one of the above mentioned criteria for program dismissal, the student will receive a probationary warning letter from the Program Director the semester prior to proposed termination. Termination may occur within three semesters following the probationary letter if the student does not adequately address the issue. If termination does not occur within three semesters following the probationary letter, the issue is considered to be resolved. Extending or re-instating the probationary status of students would require a follow-up letter to the student from the DPM Program Director.

Grades below "B" in the DPM program indicate a failure to master material at an acceptable level. Note that a student receiving a grade less than "B" may receive a warning letter from the DPM Director or a designated faculty member. Students not maintaining a 3.0 average within the core disciplines (Plant, Soil, and Weed Science; Plant Pathology; Entomology and Nematology) will be dismissed from the program. The core discipline average will be assessed on July 1st of each year. A grade-based warning letter is not a probationary letter, but repeated grades below "B" may result in an official probationary letter instead of a warning letter. An official probationary letter would proceed issuing a grade-based termination from the DPM program.

APPENDIX G - DPM Annual Assessment

Student _____

Date _____ Committee member _____

		Exemplary (4)	Proficient (3)	Marginal (2)	Unacceptable (1)
<p>SLO 1</p> <p>Students will master the subject matter and concepts related to the prevention, diagnosis and management of plant health problems of all types.</p> <p>(minimum-6, maximum-24)</p>	<p>General knowledge in entomology and nematology</p>	<ul style="list-style-type: none"> • Student has performed exceptionally well in entomology and nematology courses • Insightful interpretation of entomology and nematology through internship and applied activities the content 	<ul style="list-style-type: none"> • Student has performed at the B or above level in entomology and nematology courses • Demonstrates clear understanding of entomology and nematology 	<ul style="list-style-type: none"> • The student performance and knowledge of entomology and nematology terms is generally below standard acceptable levels • Misinterpretation of entomology and nematology problems 	<ul style="list-style-type: none"> • Inaccurate or misinterpreted content. The student's knowledge is below acceptable levels for the program. • Gross misinterpretation of entomology and nematology problems
		Exemplary (4)	Proficient (3)	Marginal (2)	Unacceptable (1)
<p>SLO 1</p> <p>Students will master the subject matter and concepts related to the prevention, diagnosis and management of plant health problems of all types.</p> <p>(minimum-6, maximum-24)</p>	<p>General knowledge in plant pathology</p>	<ul style="list-style-type: none"> • Student has performed exceptionally well in plant pathology courses • Insightful interpretation of plant pathology through internship and applied activities the content 	<ul style="list-style-type: none"> • Student has performed at the B or above level in plant pathology courses • Demonstrates clear understanding of plant pathology 	<ul style="list-style-type: none"> • The student performance and knowledge of plant pathology terms is generally below standard acceptable levels • Misinterpretation of plant pathology problems 	<ul style="list-style-type: none"> • Inaccurate or misinterpreted content. The student's knowledge is below acceptable levels for the program. • Gross misinterpretation of plant pathology problems
	<p>General knowledge in plant, soil, and weed sciences</p>	<ul style="list-style-type: none"> • Student has performed exceptionally well in plant, soil, and weed science courses • Insightful interpretation of plan, soil, and weed science through internship and applied activities the content 	<ul style="list-style-type: none"> • Student has performed at the B or above level in plant, soil, and weed science courses • Demonstrates clear understanding of plant, soil, and weed science 	<ul style="list-style-type: none"> • The student performance and knowledge of plant, soil, and weed science terms is generally below standard acceptable levels • Misinterpretation of plant, soil, and weed science problems 	<ul style="list-style-type: none"> • Inaccurate or misinterpreted content. The student's knowledge is below acceptable levels for the program. • Gross misinterpretation of plant, soil, and weed science problems

		Exemplary (4)	Proficient (3)	Marginal (2)	Unacceptable (1)
<p>SLO 2</p> <p>Students will integrate the subject matter and concepts learned during their program of study to solve plant health problems.</p> <p>(minimum 9, maximum 36)</p>	Confidence	<ul style="list-style-type: none"> Confident in verbal communication skills 	<ul style="list-style-type: none"> Usually confident in verbal communication skills 	<ul style="list-style-type: none"> Somewhat confident in verbal communication skills 	<ul style="list-style-type: none"> Rarely confident in verbal communication skills
	Clarity	<ul style="list-style-type: none"> Provides logically developed, thoughtful answers consistently Language is eloquent 	<ul style="list-style-type: none"> Provides logical answers most of the time Language is straightforward 	<ul style="list-style-type: none"> Answers may not be logical all the time Language is awkward 	<ul style="list-style-type: none"> Answers are confusing, illogical Language is poor
	Critical Thinking	<ul style="list-style-type: none"> Valid judgments based on evidence Analysis of material is insightful and conclusions are fully defensible Synthesis of content is clearly evident Response is deeply reflective and evaluative 	<ul style="list-style-type: none"> Nearly all judgments are valid and based on evidence Analysis of material is accurate and conclusions are defensible Content synthesized well for the most part Response is reflective and evaluative 	<ul style="list-style-type: none"> Judgments are occasionally invalid Analysis of material is inaccurate and conclusions are rarely defensible Merely recalls information, lists and defines but rarely synthesizes content Responses are rarely evaluative 	<ul style="list-style-type: none"> Invalid judgments based on evidence provided Indefensible conclusions No synthesis evident Response is not reflective or evaluative
SLO 2	Critical Thinking	<ul style="list-style-type: none"> Exhibits advanced thinking and conceptualization Logical flow of ideas 	<ul style="list-style-type: none"> Exhibits clear thinking and conceptualization Ideas tend to flow logically 	<ul style="list-style-type: none"> Little ability to detect patterns or conceptualize Flow of ideas is rarely logical 	<ul style="list-style-type: none"> No advanced thinking or conceptualization Illogical flow of ideas

		Exemplary (4)	Proficient (3)	Marginal (2)	Unacceptable (1)
SLO 3 Students will exhibit professionalism in the practice of plant medicine by maintaining client confidentiality, keeping up to date on plant health management practices through continuing education and seeking the assistance of their colleagues when necessary. (minimum 3, maximum 12)	Student behavior during	<ul style="list-style-type: none"> • Student is professional and courteous • Student is respectful and considerate of client confidentiality concerns • Student is knowledgeable, but knows when to seek assistance from others 	<ul style="list-style-type: none"> • Student is generally professional and courteous • Student is generally respectful and considerate of client confidentiality concerns • Student is knowledgeable, and generally knows when to seek assistance from others 	<ul style="list-style-type: none"> • Student is defensive and rarely courteous • Student is rarely respectful or considerate of client confidentiality concerns • Student is overconfident, and will often provide an incorrect answer instead of seeking self-improvement or assistance 	<ul style="list-style-type: none"> • Student is rude and directs personal attacks at committee members • Student is not respectful or considerate of client confidentiality concerns • Student is overconfident and will provide an incorrect answer instead of seeking self-improvement or assistance

SLO Achievement

All committee members should fill out a form and copies should be delivered to the DPM Program Assistant, Elena Alyanaya ealyanaya@ufl.edu for deposit in the student's file. Supervisory committee chair - please share the results of this evaluation with your student, either summarizing their strengths/weaknesses or showing the individual score sheets. The total maximum score is 72.

SLO 1 (knowledge of disciplines) = _____
(maximum 24 minimum 6)

SLO 2 (critical thinking and communication skills) = _____
(maximum 36, minimum 9)

SLO 3 (professional behavior) = _____
(maximum 12, minimum 3)

Additional comments

APPENDIX H-DPM Final Oral Exam

Student _____

Date _____ Committee member _____

		Exemplary (4)	Proficient (3)	Marginal (2)	Unacceptable (1)
<p>SLO 1 Students will master the subject matter and concepts related to the prevention, diagnosis and management of plant health problems of all types. (minimum-6, maximum-24)</p> <p>SLO 1 Students will master the subject matter and concepts related to the prevention, diagnosis and management of plant health problems of all types. (minimum-6, maximum-24)</p>	General knowledge in entomology and nematology	<p>Student has performed exceptionally well in entomology and nematology courses</p> <p>Insightful interpretation of entomology and nematology through internship and applied activities the content</p>	<ul style="list-style-type: none"> • Student has performed at the B or above level in entomology and nematology courses • Demonstrates clear understanding of entomology and nematology 	<ul style="list-style-type: none"> • The student performance and knowledge of entomology and nematology terms is generally below standard acceptable levels • Misinterpretation of entomology and nematology problems 	<ul style="list-style-type: none"> • Inaccurate or misinterpreted content. The student's knowledge is below acceptable levels for the program. • Gross misinterpretation of entomology and nematology problems
		Exemplary (4)	Proficient (3)	Marginal (2)	Unacceptable (1)
	General knowledge in plant pathology	<p>Student has performed exceptionally well in plant pathology courses</p> <p>Insightful interpretation of plant pathology through internship and applied activities the content</p>	<ul style="list-style-type: none"> • Student has performed at the B or above level in plant pathology courses • Demonstrates clear understanding of plant pathology 	<ul style="list-style-type: none"> • The student performance and knowledge of plant pathology terms is generally below standard acceptable levels • Misinterpretation of plant pathology problems 	<ul style="list-style-type: none"> • Inaccurate or misinterpreted content. The student's knowledge is below acceptable levels for the program. • Gross misinterpretation of plant pathology problems
	General knowledge in plant, soil, and weed sciences	<p>Student has performed exceptionally well in plant, soil, and weed science courses</p> <p>Insightful interpretation of plant, soil, and weed science through internship and applied activities the content</p>	<ul style="list-style-type: none"> • Student has performed at the B or above level in plant, soil, and weed science courses • Demonstrates clear understanding of plant, soil, and weed science 	<ul style="list-style-type: none"> • The student performance and knowledge of plant, soil, and weed science terms is generally below standard acceptable levels • Misinterpretation of plant, soil, and weed science problems 	<ul style="list-style-type: none"> • Inaccurate or misinterpreted content. The student's knowledge is below acceptable levels for the program. • Gross misinterpretation of plant, soil, and weed science problems

		Exemplary (4)	Proficient (3)	Marginal (2)	Unacceptable (1)
SLO 2 Students will integrate the subject matter and concepts learned during their program of study to solve plant health problems. (minimum 9, maximum 36)	Confidence	Confident in verbal communication skills	<ul style="list-style-type: none"> Usually confident in verbal communication skills 	<ul style="list-style-type: none"> Somewhat confident in verbal communication skills 	<ul style="list-style-type: none"> Rarely confident in verbal communication skills
	Clarity	<p>Provides logically developed, thoughtful answers consistently</p> <p>Language is eloquent</p>	<ul style="list-style-type: none"> Provides logical answers most of the time <ul style="list-style-type: none"> Language is straightforward 	<ul style="list-style-type: none"> Answers may not be logical all the time Language is awkward 	<ul style="list-style-type: none"> Answers are confusing, illogical Language is poor
	Critical Thinking	<p>Valid judgments based on evidence</p> <p>Analysis of material is insightful and conclusions are fully defensible</p> <p>Synthesis of content is clearly evident</p> <p>Response is deeply reflective and evaluative</p>	<ul style="list-style-type: none"> Nearly all judgments are valid and based on evidence Analysis of material is accurate and conclusions are defensible Content synthesized well for the most part Response is reflective and evaluative 	<ul style="list-style-type: none"> Judgments are occasionally invalid Analysis of material is inaccurate and conclusions are rarely defensible Merely recalls information, lists and defines but rarely synthesizes content Responses are rarely evaluative 	<ul style="list-style-type: none"> Invalid judgments based on evidence provided Indefensible conclusions No synthesis evident Response is not reflective or evaluative
SLO 2	Critical Thinking	<p>Exhibits advanced thinking and conceptualization</p> <p>Logical flow of ideas</p>	<ul style="list-style-type: none"> Exhibits clear thinking and conceptualization Ideas tend to flow logically 	<ul style="list-style-type: none"> Little ability to detect patterns or conceptualize Flow of ideas is rarely logical 	<ul style="list-style-type: none"> No advanced thinking or conceptualization Illogical flow of ideas

		Exemplary (4)	Proficient (3)	Marginal (2)	Unacceptable (1)
SLO 3 Students will exhibit professionalism in the practice of plant medicine by maintaining client confidentiality, keeping up to date on plant health management practices through continuing education and seeking the assistance of their colleagues when necessary. (minimum 3, maximum 12)	Student behavior during	<p>Student is professional and courteous</p> <p>Student is respectful and considerate of client confidentiality concerns</p> <p>Student is knowledgeable, but knows when to seek assistance from others</p>	<ul style="list-style-type: none"> • Student is generally professional and courteous • Student is generally respectful and considerate of client confidentiality concerns • Student is knowledgeable, and generally knows when to seek assistance from others 	<ul style="list-style-type: none"> • Student is defensive and rarely courteous • Student is rarely respectful or considerate of client confidentiality concerns • Student is overconfident, and will often provide an incorrect answer instead of seeking self-improvement or assistance 	<ul style="list-style-type: none"> • Student is rude and directs personal attacks at committee members • Student is not respectful or considerate of client confidentiality concerns • Student is overconfident and will provide an incorrect answer instead of seeking self-improvement or assistance

SLO Achievement

These scores do not determine whether the student passes or fails the DPM final exam. You can use the scores in your decision but there is no cut-off score below which the student fails the exam. All committee members should fill out a form and copies should be delivered to the DPM Program Assistant, Elena Alyanaya ealyanaya@ufl.edu for deposit in the student's file. Supervisory committee chair - please share the results of this evaluation with your student, either summarizing their strengths/weaknesses or showing the individual score sheets. The total maximum score is 96.

SLO 1 (knowledge of disciplines) = _____
(maximum 48, minimum 12)

SLO 2 (critical thinking and communication skills) = _____
(maximum 36, minimum 9)

SLO 3 (professional behavior) = _____
(maximum 12, minimum 3)

Additional comments

APPENDIX I-List of Supervisory Committee Members

DPM students are required to have one committee member from each of the following competency areas: plant, soil, or weed science; plant pathology; and entomology. DPM students are considered to be members of their supervisory chair's department as well as members of the DPM program.

Dr. Pete Andersen

North Florida Research & Education Center

Title: Professor of Horticultural Sciences

Location: Quincy, FL

E-mail: pcand@ufl.edu

Phone: (850) 875-7122

Area of Expertise: Deciduous Fruits

Dr. Andersen's appointment at the University of Florida is a 80% research and 20% extension split, based at the Mid Florida Research and Education Center (MREC). His role as horticulturist/plant physiologist at the NFREC-Monticello and the NFREC-Quincy has encompassed: 1) genetic improvement/cultivar evaluation of pecans, peaches, nectarines, plums, persimmons, pears, grapes, blueberries, blackberries, cold-hardy citrus and miscellaneous fruit crops; 2) culture and management of fruit and nut crops, and; 3) plant physiology/biochemistry. Whole plant physiology, plant water relations, photosynthesis, plant nutrition and fatty acid composition of peanut have been areas of specialization. Many projects have also had a natural resource or an environmental component consistent with the mandate from IFAS and from the nation to achieve sustainable systems. Much of his research has involved the effects of plant physiology/biochemistry on insects and plant pathogens. These interdisciplinary projects have included plant-insect, plant-disease and plant-insect-disease interactions. He has focused on: 1) the assessment of various pests on plant physiology/biochemistry; 2) the elucidation of physiological factors responsible for plant symptomatology; 3) the determination of plant physiological/biochemical factors associated with insect abundance, behavior and performance.

Dr. Steven Arthurs

Department of Entomology and Nematology, Mid-Florida Research and Education Center, (MREC)

Title: Assistant Professor

Location: Apopka, FL

Email: spa@ufl.edu

Phone: (407) 884-2034

Area of Expertise: IPM of arthropod pests in nurseries and urban landscapes, use of insectary reared beneficial arthropods, evaluation of insect pathogens as microbial pesticides, tools for conservation biological control, e.g. banker plants and beneficial attractants.

Dr. Arthurs's appointment at the University of Florida is a 70% research and 30% extension split, based at the Mid Florida Research and Education Center (MREC). His primary responsibility is to improve integrated pest management (IPM) for arthropod pests of ornamental plants, trees and shrubs. Dr. Arthurs's research efforts are focused on both nursery and outdoor landscapes. The continued occurrence and rapid spread of invasive species of arthropod in Florida's urban landscapes makes this need especially pressing. To that end, he conducts basic and applied research with beneficial arthropods, including insectary-reared biological control agents, microbial and other biorationale pesticides, and conservation biological control methods. Regarding instruction, Dr. Arthurs oversees graduate students working on such topics. He serves as the primary supervisor, currently for one Masters and one PhD student, and also on various other student committees. Dr. Arthurs's extension duties involve working with homeowners, professional landscapers, extension faculty and schools to deliver up to date information on new pests and as needed various methods for their management.

Dr. Janete Brito

Division of Plant Industry, Florida Department of Agriculture and Consumer Services

Title: Regulatory Nematologist

Location: UF, Gainesville, FL

Email: janete.brito@freshfromflorida.com

Phone: (352) 395-4752

Area of Expertise: Regulatory Nematology; root-knot nematode taxonomy and systematics; nematode molecular diagnostics; biological control

Dr. Janete Brito is a regulatory nematologist with the Division of Plant Industry, Florida Department of Agriculture and Consumer Services, Gainesville, Florida, USA and also holds a courtesy appointment as graduate faculty in the Entomology and Nematology Department, University of Florida, Gainesville. Dr. Brito interests focuses on Regulatory Nematology, use of classical and molecular approaches to identify root-knot nematodes and other nematodes important to ornamental, agronomic, weeds and citrus plants. Regulatory activities include conducting plant-parasitic nematode surveys and research to collect biological data for regulatory decision making, preparing nematode and earth worm permits aiming toward importation into different venues in Florida, participation in work groups for preparation of pest risk analysis for emerging nematode species and other plant-parasitic nematodes that might cause risk to domestic and international agriculture, provide training and technical assistance in regulatory nematology to the Division of Plant Industry personnel, visiting scientists and students. Research activities include root-knot nematode taxonomy and systematics, plant resistance to *Meloidogyne* spp., and factors affecting attachment and development of *Pasteuria penetrans* as a biological control agent.

Dr. Nick Dufault

Department of Plant Pathology

Title: Assistant Professor

Location: UF, Gainesville, FL

E-mail: nsdufault@ufl.edu

PH: (352) 273-4623

Area of Expertise: Plant Disease Epidemiology and Aerobiology

Dr. Dufault's research and extension program focuses on improving the management of crop diseases that affect both vegetable and agronomic crop production systems in Florida. It is his goal to use various statistical, weather and educational tools to develop efficient plant disease management programs that will maximize disease control and reduced costly inputs (i.e. chemicals, water, and time). Dr. Dufault's extension educational programs are aimed at increasing the plant pathology expertise of agricultural service personnel, educators, crop advisors and producers. He works closely with horticulturalists, agronomists and other plant scientists to evaluate cultural, biological and chemical disease control strategies as a component of integrated pest management primarily for potatoes, watermelons and peanuts.

Currently, Dr. Dufault's research is focused on the integrated management of peanuts using traditional and novel techniques, and on examining the spread of fungal pathogens in watermelons. He also has projects examining pesticide use in potatoes, watermelons, cabbage and peanuts.

Dr. John Erickson

Department of Agronomy

Title: Assistant Professor

Location: UF, Gainesville, FL

Email: jerickson@ufl.edu

PH: (352) 392-6189

Area of Expertise: Study of nutrient, water, and carbon cycling of crops and cropping systems as affected by environmental conditions, management practices, diseases and crop traits.

Dr. Erickson is an Environmental Agronomist in the Agronomy Department. His research program focuses on the ecology and physiology of cropping systems with an emphasis on the environmental impacts of agroecosystems. He looks at the effects of crops, management practices, and environment on crop growth and yield, water quality and quantity, nutrient cycling, and carbon cycling. Dr. Erickson also teaches on-campus and DE sections of Crop Ecology (AGR 5511) and Environmental Crop Nutrition (AGR6422C) every Fall semester.

Dr. Monica Elliott

Fort Lauderdale Research and Education Center (FLREC), Department of Plant Pathology

Title: Professor and Acting FLREC Co-Director

Location: Ft. Lauderdale, FL

E-mail: melliott@ufl.edu

PH: (954) 577-6315

Area of Expertise: Diseases of Palms

Dr. Monica Elliott is Acting Center Co-Director and Professor of Plant Pathology with a research/extension/administrative appointment. Her areas of expertise are field diagnosis of palm problems and fungal palm diseases, with current research on Fusarium wilt diseases. She is also working with a team examining on soil-microbe relationships in subterranean termite nests. Extension activities include a 2-day palm problem workshop for professionals (2 to 3 times each year), 1-day palm workshop for Master Gardeners (multiple times a year), co-author of the Disorders and Diseases of Ornamental Palms (card deck available in English and Spanish), co-developer of LUCID key on palm problems for USDA-APHIS-CPHST with Dr. Broschat and Ian Maguire, and senior editor and author of the Compendium of Ornamental Palm Diseases and Disorders published by the American Phytopathological Society. She is also author or co-author of multiple EDIS publications on palm and turfgrass diseases.

Dr. Fred Fishel

Department of Agronomy, UF/IFAS Pesticide Information Office

Title: Professor and Director

Location: UF, Gainesville, FL

E-mail: weeddr@ufl.edu

PH: (352) 392-4721

Area of Expertise: Safe and Proper Use of Pesticides

Dr. Fred Fishel is a Professor of Agronomy and Director, Pesticide Information Office. Position is 90% extension and 10% teaching. Extension responsibilities include serving as liaison for the Pesticide Safety Education Program with the Florida Department of Agriculture and Consumer Services, EPA, USDA, and other agencies with an interest in pesticide issues. Other responsibilities are to develop and acquire educational materials to support the IFAS extension personnel in pursuing their mission of teaching clientele in the safe and proper use of pesticides. Teaching responsibilities include developing and teaching a practical class for training graduate students in concepts of pesticides and their use.

Dr. Joe Funderburk

Entomology and Nematology Department, North Florida Research & Education Center

Title: Professor of Entomology

Location: Quincy, FL

Email: jef@ufl.edu

PH: (850) 875-7146

Area of Expertise: The ecology, management, and taxonomy of Thysanoptera (thrips) and the epidemiology of the thrips-vectoring tospoviruses.

Dr. Funderburk has more than 30 years of experience studying ecology and management of crop pests. He has developed many tactics and integrated pest management programs for insect and insect-vectoring diseases. He has focused on developing effective, economical, and sustainable integrated management programs for the key pests such as thrips and tospoviruses and the programs are vertically integrated with other insect pests. He has experience working with vegetable, fruit, ornamental, and agronomic crops.

Dr. Jennifer Gillett-Kaufman

Entomology and Nematology Department

Title: Associate Extension Scientist

Location: UF, Gainesville, FL

Email: gillett@ufl.edu

PH: (352) 273-3950

Area of Expertise: Extension Communication and Insect Fungal Interactions

Dr. Jennifer Gillett-Kaufman has been involved in extension, teaching, and research on integrated pest management (IPM) for over 20 years. She was a Peace Corps Volunteer in Morocco and believes in fostering international IPM collaborations. She supports the utilization and development of educational material for state and county Extension faculty and agricultural and urban clientele. She is one of the national eXtension website co-leaders for the Urban Integrated Pest Management Community of Practice and a member of the Invasive Species Community of Practice.

Dr. William T. Haller

Center for Aquatic and Invasive Plants

Title: Professor

Location: Gainesville, FL

Email: whaller@ufl.edu

PH: (352)392-9615

Area of Expertise: Biology and management of invasive weeds

Dr. Haller's research interests primarily involve the biology and management of invasive plants in aquatic and natural areas. More specifically current projects include the evaluation and screening of potential new aquatic herbicides to be used to control herbicide resistant aquatic weeds, particularly the submersed plant hydrilla. He is also reevaluating mechanical harvesting of aquatic weeds by modifying a harvester that can cut to a water depth of 10ft, and equipping it with GPS so plants can be harvested before they are visible from the water surface. Projects also involve the selectivity of aquatic herbicides on non-target aquatic and wetland plants, along with some cooperative work with other faculty developing improved planting techniques for native aquatic plants used in lake restoration projects.

Dr. Carrie Harmon

Department of Plant Pathology

Title: Director, UF/IFAS Plant Diagnostic Center

Location: UF, Gainesville, FL

Email: clharmon@ufl.edu

PH: (352) 273-4645

Area of Expertise: Plant Disease Detection and Diagnosis

Dr. Carrie Harmon, as the director of the UF/IFAS Plant Diagnostic Center, has the opportunity and responsibility to serve extension clientele through the state and the region. Plant disease management is predicated upon accurate and timely diagnosis and research-based recommendations. Her educational focus is training students in plant disease detection and diagnosis; she teaches the core plant pathology internship, PLP 6942. Dr. Harmon's extension and research foci revolve around diagnostic method improvement and capacity-building in the US and abroad to increase food security and safeguard US agriculture and natural ecosystems.

Dr. Amanda Hodges

Entomology and Nematology Department

Doctor of Plant Medicine (DPM) Program

Title: Associate Extension Scientist and DPM Program Director

Location: UF, Gainesville, FL

E-mail: achodges@ufl.edu

PH: (352) 273-3957

Area of Expertise: Invasive Species/Biosecurity Extension and Applied Research

Dr. Amanda Hodges serves as the Director of the DPM Program. Her position is 50% teaching and 50% extension. DPM overall administrative responsibilities and teaching the following courses are included in her teaching duties: ALS 4161/6166; ALS 6925; ALS 6931; and ALS 6943. The 50% extension component of her duties include Florida specific invasive species related education and management of the University of Florida/IFAS Extension Pest Alert listserv. Dr. Hodges also conducts applied research as part of her teaching (for example, student internships are sometimes conducted on research projects) and extension efforts. Additionally, Dr. Hodges supports her program through a variety of collaborative and externally funded contracts and grants.

Dr. Greg Hodges

Florida Department of Agriculture and Consumer Services, Division of Plant Industry

Title: Chief for the Diagnostic Bureau

Location: UF, Gainesville, FL

Email: Greg.Hodges@FreshFromFlorida.com

PH: (352) 395-4661

Area of Expertise: Taxonomy and Insect Life History

Dr. Hodges's professional training is in the field of entomology with specialization in both taxonomy and insect life history. He currently serves as the Chief for the diagnostic bureau (Entomology, Nematology and Plant Pathology) within the Florida Department of Agriculture and Consumer Services-Division of Plant Industry.

Dr. Bill Kern

Fort Lauderdale Research and Education Center (FLREC), Department of Entomology and Nematology

Title: Associate Professor

Location: Ft. Lauderdale, FL

Email: whk@ufl.edu

PH: (954) 577-6329

Area of Expertise: Urban Entomology, Africanized Honey Bee Management, Vertebrate Pest Management, Nuisance Wildlife Management, and Medical/Veterinary Entomology.

Dr. Bill Kern is an Associate Professor in the Department of Entomology & Nematology at the Ft. Lauderdale Research and Education Center. Dr. Kern received his BS in Life Science and Chemistry and M.A. in Life Science from Indiana State University in Terre Haute, IN. He earned his PhD in Entomology and Zoology from the University of Florida in 1993. He served as an Assistant Extension Scientist (Central Florida Wildlife Extension Specialist) with the Department of Wildlife Ecology & Conservation, University of Florida from 1993 until 2000. He served as an Assistant Professor (2000-2007), and Associate Professor (2007- present) in the Department of Entomology & Nematology at the Ft. Lauderdale Research and Education Center.

Dr. Norm Leppla

Entomology and Nematology Department

Title: Professor, IPM

Location: UF, Gainesville, FL

Email: ncleppla@ufl.edu

PH: (352) 273-3951

Area of Expertise: Integrated Pest Management and Biological Control

Dr. Leppla has dedicated more than 40 years to advancing the science and practice of entomology by studying insects in an effort to protect agriculture and human health. His work is encompassed in the field of integrated pest management (IPM), emphasizing biological control and associated insect rearing technology. His major accomplishments include enabling pest management research and technology by developing new insect mass production systems, establishing the first biological control laboratory specifically to support the commercial natural enemy industry, leading a federal agency's responses to serious pest outbreaks that threatened American agriculture, collaboratively designing and establishing the USDA, APHIS National Biological Control Institute, leading the design and construction of a new research and education center in Central Florida, and creating and leading the first statewide IPM program at the University of Florida. As director of the UF/IFAS IPM Program and a practicing Board Certified Entomologist, Dr. Leppla works with faculty members, students and cooperators to strengthen IPM research, Extension, and education programs. A notable example is involvement in the Plant Medicine Program that provides broad training for students to become plant health professionals, "Plant Doctors." His recent emphasis has been on plant biosecurity, safeguarding the U.S. against alien invasive species.

Dr. Oscar Liburd

Entomology and Nematology Department

Title: Professor of Fruit and Vegetable Entomology

Location: UF, Gainesville, FL

Email: oliburd@ufl.edu

PH: (352) 273-3918

Area of Expertise: Fruit and Vegetable Pest management

Dr. Oscar Liburd is a Professor of Fruit and Vegetable Entomology, University of Florida, Gainesville, FL. Dr. Liburd has chaired several DPM student committees and his expertise is in integrated pest management (IPM) of fruit and vegetable crops. His program has a fully equipped laboratory (GC-MS, growth chambers, microscopes etc.) with over 1600 square feet of laboratory space, 2 greenhouses and 10 acres research sites to conduct experiments and field trials. Dr. Liburd works primarily on arthropods (insect pests and mites) affecting fruit crops including blueberries, strawberries, blackberries and grapes, as well as vegetable crops such as squash, cabbage, peppers and tomatoes. Although his laboratory focuses on IPM strategies, he has great interest in organic pest management, specifically the use of cover crops, living mulches and beneficial insects for pest management. The laboratory also emphasizes biological control of arthropods and conducts research on monitoring, sampling techniques, use of insect thresholds, and biorational pesticides in agriculture. He also conducts research on the use of pheromones in management of fruits and vegetables.

Dr. Greg MacDonald

Department of Agronomy

Title: Associate Professor

Location: UF, Gainesville, FL

Email: pineacre@ufl.edu

PH: (352) 392-1811

Area of Expertise: Weed Science and Herbicide/Plant Interactions

Dr. Greg MacDonald is a professor of Weed Science/Agronomy and teaches undergraduate and several graduate weed science courses, including on-line distance education courses. He investigates the physiology, ecology and management of invasive species, focusing on perennial grasses - cogongrass in particular. He is also involved in international development in Haiti, focusing on peanut production, utilization and value added marketing.

Dr. Catharine Mannion

Department of Entomology and Nematology, Tropical Research and Education Center (TREC)

Title: Associate Professor

Location: Homestead, FL

Email: cmannion@ufl.edu

PH: (305) 246-7001

Area of Expertise: Ornamental Entomology

Dr. Catharine Mannion is an Associate Professor and Extension Specialist with the University of Florida, Tropical Research and Education Center. She is responsible for developing a research and extension program on integrated pest management of ornamental plants with an emphasis on invasive pests. Her research has focused on the biology and management of several introduced pests such as whiteflies, scales, thrips and weevils. She received a BS degree in Biological Sciences from University of California, a M.S. degree in Entomology from North Carolina State University, and a PhD in Entomology from the University of Florida.

Dr. Kimberly Moore

Department of Environmental Horticulture

Title: Associate Professor

Location: Fort Lauderdale Research and Education Center (FLREC)

Email: klock@ufl.edu

PH: (954) 577-6328

Area of Expertise: Sustainable Fertilization and Watering of Ornamental Plants in the Greenhouse

Dr. Kimberly Moore is a professor in the Environmental Horticulture Department. She is located off-campus at the UF Fort Lauderdale Research and Education Center. Her area of expertise is sustainable fertilization and watering of ornamental plants in the greenhouse and landscape. Her background is in Plant Nutrition and nutrient analysis.

Dr. Rao S. Mylavarapu

Department of Soil and Water Science

Title: Professor

Location: Gainesville, FL

Email: raom@ufl.edu

PH: (352)294-3113

Area of Expertise: Management of Nutrients, Pesticides, and Wastes, Remediation of Contaminated Soils, Waters, and Aquifers, Soil Quality/Ecosystem Services, Soil/Landscape Analysis

Dr. Mylavarapu is a Professor at the Soil and Water Science Department. He focuses on extension and research programs in soil and nutrient management. Dr. Mylavarapu also directs Extension Soil Testing Lab and Analytical Research Lab.

Dr. Gregg S. Nuessly

Everglade Research and Education Center

Title: Professor – Entomology and Nematology

Location: Belle Glade, FL

Email: gnessly@ufl.edu

Phone: (561) 993-1559

Area of Expertise: Arthropod biology and ecology for the development of integrated pest management programs for sweet and field corn, leafy vegetables, sugarcane and biofuel crops.

Dr. Gregg S. Nuessly received a BS in Biology from the University of California, Irvine in 1978. The research for his M.S. in Entomology from the University of California, Riverside (1981) focused on evaluating the adopted natural enemies of an insect introduced from Asia for the biological control of the weed Russian thistle. In 1986, he received his PhD in Entomology from Texas A&M University, College Station where he studied biotic and abiotic factors affecting corn earworm on east Texas cotton. He joined the University of Florida in 1989 following a 3-yr Research Entomologist position with the USDA-ARS in Brawley, CA studying the biology and control of sweetpotato whitefly on cotton and vegetables. Working within one of the largest agricultural production counties in the US, he conducts pest management research, including host plant resistance, on a wide range of pests associated with fruiting, leafy green and leafy Brassica vegetables; sweet and field corn; sweet sorghum for biofuel; sugarcane; and turfgrass.

Dr. Michelle Samuel-Foo

Department of Food Science and Human Nutrition

Title: Faculty member and IR-4 Southern Region Field Coordinator

Location: UF, Gainesville, FL

Email: mfoo@ufl.edu

Phone: (352) 392-1978

Area of Expertise: Specialty crops pest management, IPM, Regulatory affairs, Pesticide registrations, Entomology, IR-4, Internships.

Dr. Samuel-Foo leads the IR-4 Southern Region (SOR) Field Research Program as part of the [IR-4 Project](#), which is a USDA-NIFA sponsored program whose mission is to facilitate registration of sustainable pest management technology for specialty crops and minor uses. This includes responsibilities for the management and supervision of a team of highly skilled research scientists that generate data according to Good Laboratory Practice (GLP) standards for the food use MRL (Maximum Residue Level) studies conducted as part of the IR-4 project.

Dr. Steven A. Sargent

Department of Horticulture

Title: Professor and Extension Postharvest Specialist

Location: UF, Gainesville, FL

Email: sasa@ufl.edu

Phone: (352) 273-4780

Dr. Sargent has a statewide responsibility as Extension Postharvest Specialist for fresh fruits and vegetables from tropical, subtropical and temperate origin. He maintains active applied research program in support of extension activities with special emphasis on application of technologies to reduce losses in quality and increase efficiency from harvest through distribution. Dr. Sargent teaches HOS 5330 - Commercial Harvest and Postharvest Handling of Horticultural Crops Spring Semesters.

Dr. Dakshina R. Seal

Department of Entomology and Nematology, T.R.E.C Tropical Research and Education Center

Title: Assistant Research Scientist

Location: Homestead, FL

Email: dseal3@ufl.edu

Phone: (305) 246-7001

Area of Expertise: IPM, insect pests of vegetable crops

Dr. Seal's research and extension responsibilities focus on investigating key aspects of the most damaging insect pests of vegetable crops in South Florida. Primarily, he investigates the silverleaf whitefly (*Bemisia argentifolii* (Bellows & Perring), melon thrips (*Thrips palmi* Karny), chilli thrips (*Scirtothrips dorsalis* Hood, and cornsilk fly (*Euxesta stigmatis* Loew). Dr. Seal takes a leadership role in entomological studies in the tropical/subtropical region of South Florida although he collaborates with many state faculty and county agents in various aspects of this work. He also conducts research and provides educational information on pepper weevil (*Anthonomus eugeni* Cano), diamondback moth (*Plutella xylostella* (L.)), sweetpotato weevil (*Cylas formicarius* (Fabricius)), and leafminer, *Liriomyza trifolii* (Burgess)).

Dr. Hugh Smith

Department of Plant Pathology, Gulf Coast Research and Education Center

Title: Assistant Professor

Location: Wimauma, FL

Email: hughasmith@ufl.edu

Phone: (813) 633-4124

Area of Expertise: Integrated Management of Arthropod Pests of Horticultural Crops.

Dr. Smith has twenty years of experience working in agricultural research and extension in the United States, Central America, and the Pacific, primarily in the areas of pest management and farmer outreach. He has experience implementing crop protection research both on-farm and on agricultural research stations, using a range of experimental designs. Dr. Smith has collaborated with government, university, and community organizations in the US and in the developing world on pest management and farmer training programs. His research interests include the evaluation of biological control agents and insecticides for pest management in horticultural crops, habitat manipulation to enhance on-farm biological control, pest management for organic farming systems, and the development of pest management guidelines and scouting methods for low resource farmers in the tropics.

Dr. Jason A. Smith

Department of Plant Pathology, Emerging Pathogens Institute

Title: Associate Professor

Location: Gainesville, FL

Email: jasons@ufl.edu

Phone: (352) 846-0843

Area of Expertise: Forest and shade tree pathology

Jason A. Smith, Associate Professor in the School of Forest Resources and Conservation and State Forest Health Extension Specialist. Dr. Smith also holds affiliate status in the Department of Plant Pathology and Emerging Pathogens Institute. Dr. Smith's duties include research (50%), teaching (30%) and extension (20%). He teaches several courses, including Forest Health Management and Forest Ecosystem Health. Dr. Smith's extension activities include providing advanced molecular diagnostic services and urban tree health training for the arboricultural industry. His research focuses on biology and management of new and emerging diseases including laurel wilt as well as host-pathogen interactions in several pathosystems including fusiform rust and pitch canker.

Dr. Matthew Smith

Department of Plant Pathology

Title: Assistant Professor

Location: UF, Gainesville, FL

Email: trufflesmith@ufl.edu

Phone: (352) 273-2837

Area of Expertise: Ectomycorrhizal Fungi and Truffle-like fungi

Matthew E. Smith, Assistant Professor in the Department of Plant Pathology and the curator of the UF Fungal Herbarium. Dr. Smith's position includes research (60%), teaching (20%) and extension (20%). Teaching responsibilities include teaching the Fungal Biology course each fall as well as supervision of graduate students. As curator of the fungal collection for the Florida Museum of Natural History, Dr. Smith oversees herbarium visitors, loans, and ongoing specimen digitization. Additional extension responsibilities include identifying unknown fungi for a variety of Florida stakeholders, such as the UF Plant Disease Clinic, UF-IFAS Extension Service, and the UF Veterinary School. Dr. Smith's research is focused on systematics, diversity, ecology and evolution of fungi and his areas of expertise include ectomycorrhizal fungi and truffle-like fungi.

Dr. Danielle D. Treadwell

Department of Horticultural Sciences

Title: Associate Professor

Location: UF, Gainesville, FL

Email: ddtreadw@ufl.edu

Phone: (352) 273-4775

Area of Expertise: Organic and Sustainable Vegetable Production

Dr. Treadwell is a state Extension specialist with research and extension responsibilities for organic and sustainable vegetable production. Her research is focused on integration of summer and winter cover crops into farming systems to reduce off-farm inputs and enhance agro-ecological benefits. She contributes to the leadership of programs relevant to small, diversified farmers including the Florida Small Farms and Alternative Enterprises annual conference, the Florida/FDACs Farm to School Partnership, and eOrganic, a virtual community of practice for organic agriculture practitioners and technical service providers and researchers.

Dr. Ariena H.C. Van Bruggen

Department of Plant Pathology

Title: Professor of Plant Pathology

Location: UF, Gainesville, FL

Email: ahcvanbruggen@ufl.edu

PH: (352) 273-4649

Area of Expertise: Microbial Ecology and Epidemiology

Prof. Van Bruggen carries out fundamental and applied research on ecosystem health in relation to the invasion by plant and human pathogens. She has a particular interest in sustainable and organic farming systems as well as emerging pathogens. She studies both plant pathogens and human pathogens associated with plants. Her area of specialization is microbial ecology and epidemiology. In Van Bruggen's laboratory, mathematical and statistical tools are combined with molecular tools for detection of pathogens, characterization of microbial communities, and modeling habitat transitions by plant and human pathogens. Prof. Van Bruggen teaches a course on plant disease epidemiology and a colloquium series on the use of statistical methods in plant pathology. She is also co-chairing a journal club on the ecology and epidemiology of emerging pathogens.

Dr. Joao Vendramini

Department of Agronomy

Title: Associate Professor – Forage Specialist

Location: Range Cattle Research and Education Center, Ona, FL 33865

Email: jv@ufl.edu

PH: (863) 735-1314

Area of Expertise: Forage-Livestock Interface

Joao (Joe) Vendramini is an Associate Professor at the UF/IFAS Range Cattle Research and Education Center and tenured in the Agronomy Department. Dr. Vendramini's appointment is 60% research and 40% extension. The research program is dedicated to forage management with emphasis on sub-tropical production systems. The major area of interest is forage-livestock interface and the impact of forage management on forage and animal production, and environmental quality. The extension program is dedicated to disseminate science based information. Educational activities and extension publications are elaborated to deliver updated information to stakeholders, educators, and producers. In addition, Dr. Vendramini is responsible for the Forage Extension Laboratory.

APPENDIX J
DPM STUDENT AGREEMENT FORM

I have read and understand the DPM Graduate Student Handbook and the University of Florida Graduate Student Handbook. I understand the Honor Code of the University of Florida and that DPM students are expected to maintain the ethical standards of the University of Florida. I understand that my actions as a DPM student are representative of the DPM Program, a reflection on my professionalism as student, and will lead to my future career as a Plant Doctor. I have also reviewed and understand the following:

1. Guidelines for DPM Program Dismissal
2. Curriculum Goals
3. Deadlines for Student Committee Formation
4. Program of Student Requirement

I understand that the DPM Program Director must provide approval of my supervisory committee and program of study. I will seek the guidance of my supervisor committee and the DPM Director (as needed) regarding Program of Study questions. I will meet with my supervisory committee routinely, and at least twice a year, for my professional development.

Printed name

Signature

06/2014