# **Doctor of Plant Medicine Program**



Graduate Student Handbook 5th Edition 2020

## 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 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. Please be reminded that the University of Florida, DPM Program supports all University of Florida policies. Also, the DPM Program Graduate student handbook is a supplementary student resource and does not replace the University of Florida, graduate handbook . 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
- Agronomy Department
- Department of Plant Pathology
- Environmental Horticulture Department
- Food Science and Human Nutrition Department
- Horticulture Sciences Department
- School of Forest Resources and Conservation
- Soil and Water Sciences Department

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 programs are responsible to their mentor, MS graduate departments, and the rules and regulations of their discipline-specific MS program. Upon completion of a MS 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 modified 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). Please read about plagiarism on the University of Florida, George A. Smathers Libraries website at: http://guides.uflib.ufl.edu/c.php?g=147422&p=967530

Plagiarism is unethical, unacceptable in science, and prohibited by the UF Student Honor Code. 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. 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 review rules related to student conduct and the student honor code at: https://sccr.dso.ufl. edu/students/student-conduct-code/ .

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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 (http://dpm.ifas.ufl.edu/).

### 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 intendisciplinary 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 or non-thesis MS program in one of the affiliated departments. **MS/DPM students are required to inform the affiliated department that he/she plans to co-enroll. MS/DPM students must complete his/her MS degree at least one semester prior to graduation with the DPM degree.** MS/DPM students must discuss co- enrollment with their advisor. The MS advisor will generally serve as the advisor of the DPM degree unless the advisor informs the DPM Director in writing that he/she will not serve as the DPM advisor. Once a student formally co-enrolls in a MS/DPM program, the DPM program staff will communicate with the MS advisor to discuss the co-enrollment and the advisor's intent to serve (or not serve) as the DPM advisor. 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). A summary of substantial internship requirements includes the following:

- 1. One internship must be in industry or the private sector.
- 2. One internship must occur outside of Gainesville, Florida. The industry internship may also meet the outside of Gainesville, Florida requirement (if applicable).
- 3. 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.
- 4. Substantial internship proposals should include at least 5-10 refereed journal article citations.
- 5. 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 reserve the right to perform the year. The DPM Director and the Admissions Committee reserve the right to not award graduate 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 the minimum requirements, including below minimum GPA or GRE scores, the DPM Program 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.

## 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 297 or higher)..
- Applicants from countries where English is not the native language must also achieve a satisfactory score on one of the following:
  - o 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 by the fall (February 15) and spring (July 15) deadlines. Applications may also be considered throughout the year if supplemental grant funds are available, with matching funds from a faculty mentor, or pending the pool of applicants.

The University of Florida International Center (UFIC, http://www.ufic.ufl.edu/) will request the Certificate of Financial Responsibility for international applicants if you are admitted.

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 Academic Advisor I, Ms. Elena Alyanaya (ealyanaya@ufl.edu) or Program Director, Dr. Amanda Hodges (achodges@ufl.edu).

- Official Transcripts (sealed envelope).
   Please mail official transcripts from previous colleges attended to the UF Office of Admissions (POB 114000. 201 Criser Hall. Gainesville Fl. 32611). 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
- Three Letters of Recommendation (LOR).
   Please have your three references submit the LOR along with a cover letter through the online graduate application (http://admissions.ufl.edu/apply/graduate/).
- 7. Information related to residency information is available at: http://www.admissions.ufl.edu/afford/ residency
- 8. Download the latest University of Florida immunization form at: http://shcc.ufl.edu/services/ primary- care/immunizations/

# FINANCIAL ASSISTANCE

## 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. Application Deadline: February 15 or until a suitable pool of applicants is identified. DPM students may also be funded by his/her academic advisor. GPA, GRE, statement of purpose, prior course work, references, matching faculty mentor support, 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. Please review the UF International Student Services LAC Scholarship website for more information at: https://www.ufic.ufl.edu/iss/LACScholarship.html 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. DPM students must complete the MS degree one semester prior to the anticipated date of DPM graduation.

## Fellowship/Assistantship Requirements

It is the policy of UF/CALS that students must maintain a 3.0 GPA ("B" average) or better 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/ about- us/offices/division-of-graduate-student-affairs-dgsa/graduate-diversity-initiatives-ogdi/fundingopportunities/

# **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.

### **Overview**

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 his/her Committee and DPM Director Approval by his/her Study for Committee and DPM Director Approval by his/her Study for Committee and DPM Director Approval by his/her Study for Committee and DPM Director Approval by his/her Study for Committee and DPM Director Approval by his/her Study for Committee and DPM Director Approval by his/her Study for Committee and DPM Director Approval by his/her Study for Committee and DPM Director Approval by his/her 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)

Competency area courses may be transferred from other institutions or other approved substitutions may occur with the approval of a student's committee and the DPM Director. 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. Examples of useful elective courses not currently listed in the Program of Study may include graduate level courses in agricultural business or leadership. 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 an interdisciplinary 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: http://dpm.ifas.ufl.edu/

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 includes 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** (Students must receive Supervisory Committee and Director approval for classes. A student's program of study should be approved by their committee no later than the second semester of full-time enrollment. Some prerequisites may be waived with instructor permission)

Course Number	Course Name (& Prerequisites)	
AGR 6422C	Environmental Crop Nutrition	3
ALS 5155	Global Agroecosystems	3
HOS 5555	Tropical Fruit Production & Research	3
HOS 6412*	Nutrition of Horticultural Plants	3
HOS 6932*	Advanced Horticulture Physiology	3
HOS 5330	Postharvest Technologies for Horticultural Crops	2
AGR 5511*	Crop Ecology	3
PLS 5632C	Integrated Weed Management	3
PLS 6655*	Plant/Herbicide Interaction	3
SWS 5115*	Environmental Nutrient Management (SWS 5050)	3
SWS 6136*	Soil Fertility (SWS 5050)	3
SWS 5050	Soils for Environmental Professionals	3
AGR 5277C	Tropical Crop Production	3
SWS 5208	Sustainable Agricultural and Urban Land Management (SWS 5050)	3

SWS 5305C	Soil Microbial Ecology (SWS 5050)	3
SWS 5406	Soil and Water Chemistry (SWS 5050)	3
AGR 5215C	Integrated Field Crop Science	3
AGR 6322	Advanced Plant Breeding (AGR 5321 and STA 6093)	3
AGR 6325L	Plant Breeding Techniques (AGR 3301, coreq: AGR 6322)	1
GIS 5008C	Maps and Graphs	4

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

### More information on schedule of courses and terms offered can be found here:

http://registrar.ufl.edu/soc; one.ufl.edu/soc or by the department:

Soils and Water Sciences Department: http://soils.ifas.ufl.edu/academics/courses-offered

Department of Agronomy: http://agronomy.ifas.ufl.edu/students/graduate-students/graduate-courses Department of Horticulure: http://hos.ufl.edu/graduate-programs/courses

Department of Environmental Horticulture: http://hort.ifas.ufl.edu/environmental-horticulture-graduate-program Department of Agricultural and Biological Engineering: http://abe.ufl.edu/academics/course-listings

Department of Entomology/Nematology:http://http://entnemdept.ufl.edu/academic-programs/course-description

**Table 2: Core DPM Entomology and Nematology Competency Area Courses-Select 18 Credits** (Students must receive Supervisory Committee and Director approval for classes. A student's program of study should be approved by their committee no later than the second semester of full-time enrollment. Some prerequisites may be waived with instructor permission)

Course Number	Course Name (& Prerequisites)	Credits
ENY 5006 and 5006L	Graduate Survey in Entomology	3
ENY 6166*	Insect Classification (ENY3005, 3005L/5006, 5006L)	3
ENY 5611*	Immature Insects (ENY 4161/6166)	4
ENY 6651C*	Insect Toxicology (ENY 6401, 6401L)	3
ENY 5236*	Insect Pest and Vector Management (ENY3005/3005L or 5006/5006L)	3
NEM 5707C*	Plant Nematology	3
ENY 5241	Biological Control	3
ENY 5405	Insects as Vectors of Plant Pathogens (ENY3005/3005L or 5006/5006L)	3
ENY 5516	Turf and Ornamental Entomology	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 (ENY3005/3005L or 5006/5006L)	4
ENY 6401 and ENY 6401L	Insect Physiology (ENY3005/3005L or 5006/ 5006L)	4

\*Course originally listed within the core curriculum for the Entomology and Nematology Competency Area

**Table 3: Core DPM Plant Pathology Competency Area Courses—Select 16 Credits** (Students must receive Supervisory Committee and Director approval for classes. A student's program of study should be approved by their committee no later than the second semester of full-time enrollment. Some prerequisites may be waived with instructor permission)

Course Number	Course Name (& Prerequisites)	Credits
PLP 5005C	General Plant Pathology	4
PLP 5102*	Theory and Practice of Plant Disease Control	3
PLP 5115C	Citrus Pathology (PLP 5005C)	3
PLP 6656C*	Fungal Biology (PLP 5005C)	4
PLP 6223C*	Viral Pathogens of Plants (PLP 5005C)	3
PLP 6241C*	Bacterial Plant Pathogens (PLP 5005C)	3
PLP 6262C	Fungal Plant Pathogens (PLP 5005C)	3
PLP 6303	Host-Parasite Interactions II (PLP 6502)	3
PLP 6404*	Epidemiology of Plant Disease (PLP 5005C)	4
PLP 6502	Host-Parasite Interactions I (PLP 5005C)	3
PLP 6105	Applied Disease Management	3
PLP 6621C	Applied Population Genetic Analysis of Microbes	3
PLP 6291	Plant Disease Diagnosis	3

\*Course originally listed within the core curriculum for the Plant Pathology Competency Area

### Table 4: Other Core DPM Courses (18-19 Credits)

Course Number	Course Name (& Prerequisites)	Credits
AEB 4123*	Agricultural and Natural Resource Law	3
ALS 6931*	Plant Medicine Program Seminar	1
ALS 6921*	Colloquiuum	1
ALS 6925*	Integrated Plant Medicine	4
IPM 5305*	Principles of Pesticides	3
PMA 6228	Field Techniques in Integrated Pest Management	2
ALS 6942	Challenges in Plant-Pest Risk Assessment & Management	3
ALS 5932, AGR 5266C, etc.	Special Topics (Research Methods in Plant Health Management), Field Plot Techniques, or a Graduate-Level Statistics Course (STA 6093)	3

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

Course Number	Course Name (& Prerequisites)	Credits
ALS 6943	Internship in Plant Pest Risk Assessment and Management <sup>1</sup>	6
AGR 6932 <sup>2</sup> , SWS 6932 <sup>2</sup> , ORH 7941, PLP 7946 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 (ENY 5006/6166)	2
NEM 6942	Nematode Diagnostics (NEM 5707C)	2
PLP 6942	Professional Internship in Plant Disease Clinic (PLP 6921 and 6262C	3

<sup>1</sup>The 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.

#### Table 6: Elective Courses

Course Number	Course Name (& Prerequisites)	Credits
AEB 6385	Management Strategies for Agribusiness Firms	3
AEC 6704	Extension Administration and Supervision	3
AGR 5444	Ecophysiology of Crop Production	3
ALS 6031	Project Team Research: Building Skills in Agrobiology	3
BCH 5045	Graduate Survey of Biochemistry	4
FOR 6934	Communicating Natural Resources Science with the Public	3
HOS 5085C	Principles of Postharvest Horticulture (BCH 5045)	3
HOS 5330	Postharvest Technologies for Horticultural Crops	2
PLP 6905	Field Plant Pathology	1
PLS 6626	Invasive Plant Ecology	3
PMA 5205	Citrus Pest Management	3
STA 6093	Intro to Applied Statistics	3
SWS 5305C	Soil Microbial Ecology (SWS 5050)	3
SWS 5805	Environmental Soil and Water Monitoring Techniques	3
SWS 6134	Soil Quality (SWS 5050)	3

### 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 core and elective credits. Elective credits may consist of traditional graded course credits.

### **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, completion of the comprehensive written exams, and completion of the final oral exam. A DPM degree may be completed within 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 ONE.UF (https://one.uf.edu/), or with the assistance of program academic advisor, Elena Alyanaya (ealyanaya@ufl.edu ). Registration requirements for graduate students on assistantships and fellowships are available at: http://gradcatalog.ufl.edu/ content.php?catoid=10&navoid=2020#registration

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. Graduate students must be registered for credits associated with the DPM degree during his/her final term. 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 no 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 an 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.

## Written Comprehensive Examinations and Final Oral Exam

All students will complete written comprehensive examination from the following three sections: Plant, Soil, and Weed Science; Entomology and Nematology; and Plant Pathology. Visit the DPM website (http://dpm.ifas.ufl.edu/) for the latest written exam schedule and study guide.

After a student passes all three sections of the comprehensive 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 once 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 A 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. See Academic Advisor I Elena Alyanaya (ealyanaya@ufl.edu ) for more information. 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 (http://dpm.ifas.ufl.edu/) or see Academic Advisor Elena Alyanaya (ealyanaya@ufl. edu) for the latest forms. The DPM signature form is also available in Appendix B. The student should request signatures from faculty who have agreed to serve on your S/C and deliver it to the DPM 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 DPM Program Director after it has been processed. The DPM Program Academic Advisor 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 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 regarding 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. When the student is not otherwise located in another program or laboratory, the Chair of the S/C should consider the student to be a member of his/her laboratory for professional development purposes. The DPM Program Director will perform these activities until the S/C is established or during the student's time on campus if the Chair is located at a REC (Research and Education Center). 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:** 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
GIS 5008C	Maps and Graphs	4 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 B:** 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 C:** Program of Study Form

Proposed Program for		UFID#	ŧ	who is a candidate			
	for the D	octor of Plant Med	licine		degree.		
Course Number	Course Title	Credit Hours	Grade	Term Projected / Completed	Institution		
Major:	<b>Doctor of Plant Medicine</b>						
					UF		
	Total	=					

### Program of Study Form Continued

Internships:					
	Total =				

Transfer of Credits:

Total =		

We recommend that the above program be approved.

Graduate Student

Date

Approved:\_

Department Chair or Graduate Coordinator Date

Supervisory Committee Members:

Chairman	Date
Member	Date
Member	Date
Member	Date

## **APPENDIX D:** 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 regarding 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 regarding 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 regarding 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 E:** 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 F. 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 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 DPM 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 F: DPM Annual Assessment**

Student\_\_\_\_\_

Date \_\_\_\_\_ Committee member \_\_\_\_\_

				1	
		Exemplary (4)	Proficient (3)	Marginal (2)	Unacceptable (1)
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)	General knowledge in entomology and nematology	<ul> <li>Student has performed exceptionally well in entomology and nematology courses</li> <li>Insightful interpretation of entomology and nematology through internship and applied activities the content</li> </ul>	<ul> <li>Student has performed at the B or above level in entomology and nematology courses</li> <li>Demonstrates clear understanding of entomology and nematology</li> </ul>	<ul> <li>The student performance and knowledge of entomology and nematology terms is generally below standard acceptable levels</li> <li>Misinterpretation of entomology and nematology problems</li> </ul>	<ul> <li>Inaccurate or misinterpreted content. The student's knowledge is below acceptable levels for the program.</li> <li>Gross misinterpretation of entomology and nematology problems</li> </ul>
SLO 1		Exemplary (4)	Proficient (3)	Marginal (2)	Unacceptable (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)	General knowledge in plant pathology	<ul> <li>Student has performed exceptionally well in plant pathology courses</li> <li>Insightful interpretation of plant pathology through internship and applied activities the content</li> </ul>	<ul> <li>Student has performed at the B or above level in plant pathology courses</li> <li>Demonstrates clear understanding of plant pathology</li> </ul>	<ul> <li>The student performance and knowledge of plant pathology terms is generally below standard acceptable levels</li> <li>Misinterpretation of plant pathology problems</li> </ul>	<ul> <li>Inaccurate or misinterpreted content. The student's knowledge is below acceptable levels for the program.</li> <li>Gross misinterpretation of plant pathology problems</li> </ul>
	General knowledge in plant, soil, and weed sciences	<ul> <li>Student has performed exceptionally well in plant, soil, and weed science courses</li> <li>Insightful interpretation of plan, soil, and weed science through internship and applied activities the content</li> </ul>	<ul> <li>Student has performed at the B or above level in plant, soil, and weed science courses</li> <li>Demonstrates clear understanding of plant, soil, and weed science</li> </ul>	<ul> <li>The student performance and knowledge of plant, soil, and weed science terms is generally below standard acceptable levels</li> <li>Misinterpretation of plant, soil, and weed science problems</li> </ul>	<ul> <li>Inaccurate or misinterpreted content. The student's knowledge is below acceptable levels for the program.</li> <li>Gross misinterpretation of plant, soil, and weed science problems</li> </ul>

SLO 2 Students will integrate the subject matter and concepts learned during their program of study to solve plant health problems. (minimum 9.	Confidence	<ul> <li>Confident in verbal communication skills</li> </ul>	<ul> <li>Usually confident in verbal communication skills</li> </ul>	<ul> <li>Somewhat confident in verbal communication skills</li> </ul>	Rarely confident in verbal communication skills
	Clarity	<ul> <li>Provides logically developed, thoughtful answers consistently</li> <li>Language is eloquent</li> </ul>	<ul> <li>Provides logical answers most of the time         <ul> <li>Language is straightforward</li> </ul> </li> </ul>	<ul> <li>Answers may not be logical all the time</li> <li>Language is awkward</li> </ul>	<ul> <li>Answers are confusing, illogical</li> <li>Language is poor</li> </ul>
	Critical Thinking	<ul> <li>Valid judgments based on evidence</li> <li>Analysis of material is insightful and conclusions are fully defensible</li> <li>Synthesis of content is clearly evident</li> <li>Response is deeply reflective and evaluative</li> </ul>	<ul> <li>Nearly all judgments are valid and based on evidence</li> <li>Analysis of material is accurate and conclusions are defensible</li> <li>Content synthesized well for the most part</li> <li>Response is reflective and evaluative</li> </ul>	<ul> <li>Judgments are occasionally invalid</li> <li>Analysis of material is inaccurate and conclusions are rarely defensible</li> <li>Merely recalls information, lists and defines but rarely synthesizes content</li> <li>Responses are rarely evaluative</li> </ul>	<ul> <li>Invalid judgments based on evidence provided</li> <li>Indefensible conclusions</li> <li>No synthesis evident</li> <li>Response is not reflective or evaluative</li> </ul>
SLO 2	Critical Thinking	<ul> <li>Exhibits advanced thinking and conceptualization</li> <li>Logical flow of ideas</li> </ul>	<ul> <li>Exhibits clear thinking and conceptualization</li> <li>Ideas tend to flow logically</li> </ul>	<ul> <li>Little ability to detect patterns or conceptualize</li> <li>Flow of ideas is rarely logical</li> </ul>	<ul> <li>No advanced thinking or conceptualization</li> <li>Illogical flow of ideas</li> </ul>
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> <li>Student is professional and courteous</li> <li>Student is respectful and considerate of client confidentiality concerns</li> <li>Student is knowledgeable, but knows when to seek assistance from others</li> </ul>	<ul> <li>Student is generally professional and courteous</li> <li>Student is generally respectful and considerate of client confidentiality concerns</li> <li>Student is knowledgeable, and generally knows when to seek assistance from others</li> </ul>	<ul> <li>Student is defensive and rarely courteous</li> <li>Student is rarely respectful or considerate of client confidentiality concerns</li> <li>Student is overconfident, and will often provide an incorrect answer instead of seeking self- improvement or assistance</li> </ul>	<ul> <li>Student is rude and directs personal attacks at committee members</li> <li>Student is not respectful or considerate of client confidentiality concerns</li> <li>Student is overconfident and will provide an incorrect answer instead of seeking self-improvement or assistance</li> </ul>

## **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 G: DPM Final Oral Exam**

Student\_\_\_\_\_

Date \_\_\_\_\_ Committee member \_\_\_\_\_

	Exemplary (4)		Proficient (3)	Marginal (2)	Unacceptable (1)		
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-24)General knowledge in entomology and nematologyStudent has performed exceptionally well in entomology and nematology through internship and applied activities the content•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)General knowledge in plant pathologyStudent has performed entomology and nematology through internship and applied activities the contentSLO 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)General knowledge in plant pathologyStudent has performed exceptionally well in plant pathology coursesInsightful interpretation of plant pathology through internship and applied activities the content	General knowledge in entomology and nematology	Student has performed exceptionally well in entomology and nematology courses Insightful interpretation of entomology and nematology through internship and applied activities the content	<ul> <li>Student has performed at the B or above level in entomology and nematology courses</li> <li>Demonstrates clear understanding of entomology and nematology</li> </ul>	<ul> <li>The student performance and knowledge of entomology and nematology terms is generally below standard acceptable levels Misinterpretation of entomology and nematology problems</li> </ul>	<ul> <li>Inaccurate or misinterpreted content. The student's knowledge is below acceptable levels for the program.</li> <li>Gross misinterpretation of entomology and nematology problems</li> </ul>		
	<ul> <li>Proficient (3)</li> <li>Student has performed at the B or above level in plant pathology courses</li> <li>Demonstrates clear understanding of plant pathology</li> </ul>	Marginal (2) <ul> <li>The student performance and knowledge of plant pathology terms is generally below standard acceptable levels</li> <li>Misinterpretation of plant pathology problems</li> </ul>	<ul> <li>Unacceptable (1)</li> <li>Inaccurate or misinterpreted content. The student's knowledge is below acceptable levels for the program.</li> <li>Gross misinterpretation of plant pathology problems</li> </ul>				
	General knowledge in plant, soil, and weed sciences	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> <li>Student has performed at the B or above level in plant, soil, and weed science courses</li> <li>Demonstrates clear understanding of plant, soil, and weed science</li> </ul>	<ul> <li>The student performance and knowledge of plant, soil, and weed science terms is generally below standard acceptable levels</li> <li>Misinterpretation of plant, soil, and weed science problems</li> </ul>	<ul> <li>Inaccurate or misinterpreted content. The student's knowledge is below acceptable levels for the program.</li> <li>Gross misinterpretation of plant, soil, and weed science problems</li> </ul>		

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> <li>Usually confident in verbal communication skills</li> </ul>	Somewhat confident in verbal communication skills	<ul> <li>Rarely confident in verbal communication skills</li> </ul>
	Clarity	Provides logically developed, thoughtful answers consistently Language is eloquent	<ul> <li>Provides logical answers most of the time</li> <li>Language is straightforward</li> </ul>	<ul> <li>Answers may not be logical all the time</li> <li>Language is awkward</li> </ul>	<ul> <li>Answers are confusing, illogical</li> <li>Language is poor</li> </ul>
	Critical Thinking	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> <li>Nearly all judgments are valid and based on evidence</li> <li>Analysis of material is accurate and conclusions are defensible</li> <li>Content synthesized well for the most part</li> <li>Response is reflective and evaluative</li> </ul>	<ul> <li>Judgments are occasionally invalid</li> <li>Analysis of material is inaccurate and conclusions are rarely defensible</li> <li>Merely recalls information, lists and defines but rarely synthesizes content</li> <li>Responses are rarely evaluative</li> </ul>	<ul> <li>Invalid judgments based on evidence provided</li> <li>Indefensible conclusions</li> <li>No synthesis evident</li> <li>Response is not reflective or evaluative</li> </ul>
SLO 2	Critical Thinking	Exhibits advanced thinking and conceptualization Logical flow of ideas	<ul> <li>Exhibits clear thinking and conceptualization</li> <li>Ideas tend to flow logically</li> </ul>	<ul> <li>Little ability to detect patterns or conceptualize</li> <li>Flow of ideas is rarely logical</li> </ul>	<ul> <li>No advanced thinking or conceptualization</li> <li>Illogical flow of ideas</li> </ul>

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	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	•	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	•	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	•	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
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### **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 H:** 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