ALS 6942, Spring 2019
Principles of Plant Pest Risk Assessment and Management

**Instructor:** Amanda C. Hodges, PhD
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Gainesville, FL 32611
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E-mail: achodges@ufl.edu

Office Hours: Monday 8:00am-9:00am or by appointment. Due to work-related travel, the instructor may periodically be unavailable and will notify students of office hour changes by Canvas e-mail.

**Teaching Assistants**
Morgan Pinkerton: morgan0402@ufl.edu
Sage Thompson: sagemthompson@ufl.edu
Office: 3205, ENY Building, Steinmetz Hall
Office Hours: By appointment only

You can contact either TAs with questions about the course or assignment grading.

**Course Website:**
University of Florida, Canvas e-learning system (https://lss.at.ufl.edu/). Weekly materials are available under the modules menu bar of your course shell. Although some material has been posted prior to the course’s weekly offering, weekly course materials will be updated by 8:00am on Tuesday morning of every week. The course instructor will also periodically e-mail students (through Canvas) as new course content has been added.

**Textbook and Other Resources:**

**Assignments:**
Four 20-point assignments (Assignments 1-4) have been described to students within the UF e-learning Canvas website (https://lss.at.ufl.edu/). Some assignments may require students to locate additional references or specific articles within UF libraries (http://cms.uflib.ufl.edu/) or on the internet. Adobe Flash® player (http://get.adobe.com/flashplayer/) may be required for some lectures. Students will be required to use the APA (American Psychological Association) reference citation style for all assignments. Information to assist students with the APA style has been provided within Canvas. Students will also be required to participate in an interactive discussion and present a media file as an assignment. Most assignments include detailed grading rubrics. Students are advised to review grading rubrics at the beginning of the semester and prior to beginning assignments.

**Substantial Assignments:**

All students will be required to complete two substantial written assignments:

1. Survey and Response Plan, 80 points
2. Pest Risk Assessment, 32 points for the First Draft and 150 points for Final Submission

As listed in Canvas e-learning instructions, the Survey and Response Plan Substantial Assignment consists of the following elements:

- Select a pest (arthropod, plant disease, weed, or another potential organism not known to occur in the U.S.) from the Cooperative Agricultural Pest List.
- Develop a survey plan for Florida for your pest. Cite examples of other survey plans in your design.
- Include at least four photos or illustrative figures in your survey and response plan.
- Define the risk level of your pest (low, medium, or high) for Florida agriculture. Provide a justification for your classification.
- Describe the communication process and potential mitigation procedures that would occur for your pest if it was detected in Florida.
- Your survey and response plan should be a minimum of 5 pages, and a maximum of 15 pages.

As listed in the Canvas e-learning instructions, the Pest Risk Assessment Substantial Assignment consists of the following requirements:

- Select an arthropod pest from the Cooperative Agricultural Pest Survey Program List.
- Prepare a pest risk assessment for Florida based on your selected pest.
- Your pest risk assessment should have at least 10 references, and should not exceed 10 pages, double-spaced Times New Roman Font. You should provide background information about the pest, and basic biological information in your report. You should include at least one cited pest risk assessment in your pest risk assessment, and you should indicate which pest risk assessment served as a 'model'
for your assignment. Your pest risk assessment will allow you to apply the concepts of assessing pests and their associated risk. Finally, submission of a first draft will allow you an opportunity to improve the final written pest risk assessment document prior to submission.

Graduate students have an additional 100-point pest risk assessment that is focused on a plant pathogen. The guidance that you receive for your first draft arthropod pest risk assessment will assist you with your plant pathogen graduate student risk assessment.

- **You must select a different pest than the pest selected for your survey and response plan for both arthropod and plant pathogen pest risk assessment.** Please review the grading rubric within Canvas.

**Both substantial assignments include detailed grading rubrics (in Canvas). Students are advised to review grading rubrics at the beginning of the semester and prior to beginning assignments.**

**Checkpoint Quizzes:**

Students will have three multiple choice 10-point checkpoint quizzes during the semester. Quizzes will be open-notes but limited to 20 minutes for quiz completion.

**Course Exams:**

Students will have two 50-point course exams during the semester. The course exams will be open notes, essay-based, and time limited to four hours for exam completion.

**Course Prerequisites:**

Integrated Principles of Biology 1 and Laboratory (BSC 2010 and 2010L) and Integrated Principles of Biology 2 and Laboratory (BSC 2011 and 2011L) or equivalent.

**Course Objectives:**

From the weekly course assignments, students will gain an understanding of the following plant protection concepts:

1) An awareness of the role the IPPC, ISPMs, and NPPO in plant protection.

2) An awareness of trade issues and their relevance to plant biosecurity.

3) An awareness of pest lists and pest list prioritization issues.

4) An awareness of mitigation procedures.

5) An understanding of the mission of regional, federal, and state agencies in regulatory plant science.

6) An understanding of the mission of regional, federal, and state laboratories in regulatory plant science.
7) An understanding of the role of USDA-APHIS-PPQ in promoting safe trade in agricultural products and protecting agricultural resources and the environment.

8) An understanding of pest surveillance, detection, and identification processes.

9) An understanding of risk assessment, risk management, risk communication, and the safeguarding continuum.

10) An ability to assimilate information from reading materials into a pest risk assessment and a pest.

**General Course Details:**

Credits: 3 Catalog Statement: “Applied training in the regulatory aspects of plant protection, using real-world case studies, scenarios and issues.” Location Offered: Online

**Course Outline**

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<tbody>
<tr>
<td>1</td>
<td>01/07/19</td>
<td>Review Syllabus, Login to Canvas</td>
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<td></td>
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<td>Plant Biosecurity and International Trade</td>
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<td>2</td>
<td>01/14/19</td>
<td>History of Plant Quarantine and the Use of Risk Analysis in the International Framework</td>
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<td><strong>Assignment 1: Glossary of Terms, Due by 01/19/19</strong></td>
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<td>3</td>
<td>01/21/19</td>
<td>Terms and Basic Concepts for Pest Risk Analysis</td>
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<td>4</td>
<td>01/28/19</td>
<td>Economics and Types of Pest Risk Analysis</td>
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<td><strong>First Checkpoint Quiz, Available 01/30/19-02/03/19</strong></td>
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<td><strong>Assignment 2: Discussion, Part 1 Due by 02/03/19</strong></td>
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<td>5</td>
<td>02/04/19</td>
<td>Wood Packing Material and Firewood</td>
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<td><strong>Assignment 2: Discussion, Part 2 Due by 02/10/19</strong></td>
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<td>02/11/19</td>
<td>Commodity Example, Citrus</td>
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<td><strong>Assignment 3: Risks Associated with Wood Packing Material and Citrus, A Florida Perspective Due by 02/17/19</strong></td>
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<td>7</td>
<td>02/18/19</td>
<td>Pest Lists and Pest Risk Assessment</td>
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<td><strong>Second Checkpoint Quiz, Available from 02/20/19-02/24/19</strong></td>
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<td>8</td>
<td>02/25/19</td>
<td>Surveillance</td>
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<td>9</td>
<td>03/04/19</td>
<td>Spring Break</td>
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<td>10</td>
<td>03/11/19</td>
<td>Surveillance in the U.S. and Florida</td>
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Course Exam 1, Available from 03/11/18-03/17/18. Course material from weeks 1-7 will be included in Course Exam 1.

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<tr>
<th>Week</th>
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<tr>
<td>11</td>
<td>03/18/19</td>
<td>Pest Risk Management Background and Practice Pest Risk Assessment First Draft Due by 03/24/19</td>
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<td>12</td>
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<td>Risk Communication and Various Terms Related to Risk Survey and Response Plan Due by 03/31/19</td>
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<td>Weed Risk Assessment Final Checkpoint Quiz, Available 04/03/18-04/07/19</td>
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<td>04/08/19</td>
<td>Review Materials Assignment 4: Tell Your Story due 04/14/19</td>
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<td>04/15/19</td>
<td>Course Exam 2, Available from 04/15/18-04/21/18. Course material from weeks 8, 10-14 will be included in Course Exam 2.</td>
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<td>16</td>
<td>04/22/19</td>
<td>Final Pest Risk Assessment Due on Wednesday, April 24, 2019. Graduate Student Plant Pathogen Risk Assessment Due on Wednesday, April 24, 2019</td>
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**GRADING POLICY-ALS 6942**

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<td>A-</td>
<td>90-92</td>
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<td>B+</td>
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<td>B</td>
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**EVALUATION**

- Assignments (4 total at 20 points each) 80
- Survey and Response Plan 80
- Pest Risk Assessment, First Draft 32
- Pest Risk Assessment, Final Submission 150
- Checkpoint Quizzes (three at 10 each) 30
- Plant Pathogen Risk Assessment 100
- Exams (two at 50 points each) 100

Total 572 points
Incomplete grades:

The application process for receiving an incomplete grade is the responsibility of the student. Students may download the CALS incomplete grade form at: [http://www.cals.ufl.edu/faculty-staff/docs/forms/incompleteGradeContract.pdf](http://www.cals.ufl.edu/faculty-staff/docs/forms/incompleteGradeContract.pdf) (Links to an external site.) The instructor must sign the application for an incomplete grade, but the student must initiate the paperwork process. The instructor will only approve an incomplete grade application if the following conditions are met:

- The student has completed a major portion of the course with a passing grade (“D” or better).
- The student is unable to complete course requirements because of documented circumstances beyond his or her control.
- The student and instructor have discussed the situation prior to the final exam (except under emergency conditions).
- The instructor will submit a final grade for the student on the date due (indicated below) whether or not all work is completed.

Note that the paperwork for receiving an incomplete will also include deadlines for remaining assignments due. The instructor will not consider incomplete requests after the last day of classes.

Missed Exams

Make-up exams will only be allowed due to clearly documented medical excuses or a death in your immediate family (spouse, sibling, parent, child, or grandparent). You will need to provide the instructor with clear documentation, and contact details to verify the excuse.

Extra Credit

No extra credit will be assigned.
Policy Statements: Academic Honesty, Plagiarism, Software Use, UF Counseling Services, Services for Students with Disabilities

Academic Honesty:

In 1995, the UF student body enacted a new honor code and voluntarily committed itself to the highest standards of honesty and integrity. When students enroll at the university, they commit themselves to the standard drafted and enacted by the students.

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. The quality of a University of Florida education is dependent upon community acceptance and enforcement of this honor code.

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

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

The University requires all members of its community to be honest in all endeavors. A fundamental principle is that the whole process of learning and pursuit of knowledge is diminished by cheating, plagiarism and other acts of academic dishonesty. In addition, every dishonest act in the academic environment affects other students adversely, from the skewing of the grading curve to giving unfair advantage for honors or for professional or graduate school admission. Therefore, the university will take severe action against dishonest students. Similarly, measures will be taken against faculty, staff and administrators who practice dishonest or demeaning behavior.

Students should report any condition that facilitates dishonesty to the instructor, department chair, college dean or Student Honor Court.

It is assumed all work will be completed independently unless the assignment is defined as a group project, in writing by the instructor. This policy will be vigorously upheld at all times in this course.

Plagirism:

Plagiarism is a serious problem in academia today, especially with the ease of obtaining information from the World Wide 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.
Plagiarism is unethical, unacceptable in science, and prohibited by the UF Student Honor Code (http://www.dso.ufl.edu/sccr/honorcodes/honorcode.php (Links to an external site.) ). 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, for repeated offenses, 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 manner that faculty members at the University of Florida consider to be plagiarism. Students studying in 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 department check all written assignments using an anti-plagiarism software called Turnitin®. You may wish to customize this section and put in your plans to use Turnitin and your consequences for plagiarism.

For further information and examples of plagiarism, I strongly suggest that you please read the George Smathers’ Library Guide to Plagiarism at http://www.counseling.ufl.edu/cwc/Default.aspx (Links to an external site.)

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.

**Software Use:**

All faculty, staff, and students of the University are required and expected to obey the laws and legal agreements governing software use. Failure to do so can lead to monetary damages and/or criminal penalties for the individual violator. Because such violations are also against University policies and rules, disciplinary action will be taken as appropriate.

**Campus Helping Resources:**

Students experiencing crisis or personal problems that interfere with their general wellbeing are encouraged to utilize the university’s counseling resources. Both the Counseling Center and Student Mental Health provide confidential counseling services at no cost for currently enrolled students. Resources are available on campus for students having personal or clear career and academic goals, which interfere with their academic performance. The Counseling Center is located at 301 Peabody Hall (next to Criser Hall). Student Mental Health is located on the second floor of the Student Health Services in the Infirmary.

1. University Counseling Center, 301 Peabody Hall, 392-1575; personal and career counseling: http://www.counseling.ufl.edu/cwc/Default.aspx
2. Student Mental Health, Rm. 245 Student Health Care Center, 392-1171, personal counseling: http://shcc.ufl.edu/
  - Alcohol and Substance Abuse Program (ASAP)
  - Center for Sexual Assault/Abuse Recovery & Education (CARE)
  - Eating Disorders Program
  - Employee Assistance Program
  - Suicide Prevention Program
3. Career Resource Center, DR-100 J.W. Reitz Union, 392-1602, career development assistance and counseling.

**Students with Disabilities:**

The Disability Resource Center Coordinates the needed accommodations of students with disabilities. This includes registering disabilities, recommending academic accommodations within the classroom, accessing special adaptive computer equipment, providing interpretation services and mediating faculty-student disability related issues. 0001 Reid Hall, 392-8565, www.dso.ufl.edu/drc/