

# Cover Sheet: Request 14170

## ALS 4161 Exotic Species and Biosecurity Issues

### Info

Process	Course Modify Ugrad/Pro
Status	Pending at PV - University Curriculum Committee (UCC)
Submitter	Tolulope Agunbiade agunbiade@ufl.edu
Created	8/28/2019 1:20:01 PM
Updated	10/17/2019 3:24:12 PM
Description of request	The following co-requisites should be removed for ALS 4161 (Exotic Species and Biosecurity Issues) 1. HOS 3020 2. ENY 3005/3005L 3. PLP 3002C  The course does not require any co-requisites

### Actions

Step	Status	Group	User	Comment	Updated
Department	Approved	CALS - Entomology and Nematology 514914000	Heather Mcauslane		8/28/2019
No document changes					
College	Approved	CALS - College of Agricultural and Life Sciences	Joel H Brendemuhl	Edits requested by the CALS CC have been addressed.	10/17/2019
ALS 4161 Syllabus.pdf					
University Curriculum Committee	Pending	PV - University Curriculum Committee (UCC)			10/17/2019
No document changes					
Statewide Course Numbering System					
No document changes					
Office of the Registrar					
No document changes					
Student Academic Support System					
No document changes					
Catalog					
No document changes					
College Notified					
No document changes					

## Course|Modify for request 14170

### Info

**Request:** ALS 4161 Exotic Species and Biosecurity Issues

**Description of request:** The following co-requisites should be removed for ALS 4161 (Exotic Species and Biosecurity Issues)

1. HOS 3020
2. ENY 3005/3005L
3. PLP 3002C

The course does not require any co-requisites

**Submitter:** Tolulope Agunbiade agunbiade@ufl.edu

**Created:** 8/28/2019 1:08:00 PM

**Form version:** 1

### Responses

**Current Prefix** ALS

**Course Level** 4

**Number** 161

**Lab Code** None

**Course Title** Exotic Species and Biosecurity Issues

**Effective Term** Earliest Available

**Effective Year** Earliest Available

**Requested Action** Other (selecting this option opens additional form fields below)

**Change Course Prefix?** No

**Change Course Level?** No

**Change Course Number?** No

**Change Lab Code?** No

**Change Course Title?** No

**Change Transcript Title?** No

**Change Credit Hours?** No

**Change Variable Credit?** No

**Change S/U Only?** No

**Change Contact Type?** No

**Change Rotating Topic Designation?** No

**Change Repeatable Credit?** No

**Maximum Repeatable Credits** 3

**Change Course Description?** No

**Change Prerequisites?** No

**Change Co-requisites?** Yes

**Current Co-requisites** 1. HOS 3020  
2. ENY 3005/3005L  
3. PLP 3002C

**Proposed Co-requisites** None

**Rationale** Co-requisites are not needed for this course

# EXOTIC SPECIES AND BIOSECURITY ISSUES

## ALS 4161

3 CREDITS  
FALL 2019

### INSTRUCTOR INFORMATION

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#### Instructor

**Dr. Tolulope Agunbiade**

#### Contact Information & Hours

Location: 3212 Steinmetz Hall  
E-mail: [agunbiade@ufl.edu](mailto:agunbiade@ufl.edu)  
Phone: (352) 294-6792  
Office hours: by phone or e-mail

#### Teaching Assistants

**Morgan Pinkerton**

Location: 3205 Steinmetz Hall  
E-mail: [morgan0402@ufl.edu](mailto:morgan0402@ufl.edu)  
Office hours: Thursday 9:00 am –  
10:00 am

**Cleveland Ivey**

Location: 3218 Steinmetz Hall  
E-mail: [civey@ufl.edu](mailto:civey@ufl.edu)  
Office hours: Tuesday 11: 00 am  
– 12:00 pm

### GENERAL INFORMATION

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#### Course Description

This course covers a study of U. S. policies and programs affecting agricultural biosecurity. Emphasis is on current agricultural extension and regulatory programs, and the policies and procedures involved in detecting and reporting non-indigenous species. Students will develop the analytical capabilities to assess the consequences of agricultural biosecurity threats. The course will explore content using narrated PowerPoint presentations, selected video clips, and assigned readings.

#### Learning Objectives

After completing this course, students will be able to:

- Describe the importance of invasive species to U.S. agriculture and natural areas
- Evaluate trade issues and their relevance to agricultural biosecurity
- Explain the principles and basic practices of pest exclusion, eradication, and management tactics for invasive species issues

- Assimilate information on invasive species, and develop inferences from case study examples
- Describe the research, extension, and regulatory components of invasive species issues
- Appraise and appreciate early detection, and correct identification of new and emerging pest problems
- Evaluate news and developments reported in the popular and scientific media on issues affecting the subject matter of this course
- Describe the importance of insect vectors to animal and human health
- Describe the importance of exotic animal disease threats to agriculture

### Prerequisite

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 Website

The course content, including narrated lectures, selected video clips, assigned readings, examinations, quizzes, and discussion assignments will be available through the course website in Canvas at <https://elearning.ufl.edu/>. Each week, students are required to view the lectures, selected video clips and associated readings, participate in the discussion assignments, and take the quizzes and examinations prior to the assigned due dates in order to complete the course requirements. Weekly modules will be available by 8:00 am on Monday of the module week.

### Course Communications

In addition to the assigned discussion assignments, students are encouraged to post general questions on topics taught in the class under the General Questions thread. The instructor and/or the Teaching Assistants (TAs) will respond to the questions. Other students are also encouraged to respond to the questions. Private questions should be sent to the instructor via e-mail. Students will be notified by Canvas e-mail if instructor or TAs will be unavailable for office hours.

## COURSE MATERIALS

### Textbooks/Readings

The following textbooks are recommended for this course.

- Daniel A. Sumner. 2003. Exotic Pests and Diseases: Biology and Economics for Biosecurity, 1<sup>st</sup> edition, 265 pages. Wiley-Blackwell
- Jorge E. Pena. 2013. Potential Invasive Pests of Agricultural Crops, 460 pages. CABI Invasives
- Ryan Burnette. 2013. Biosecurity: Understanding, Assessing, and Preventing the Threat, 1<sup>st</sup> edition, 328 pages. John Wiley and Sons Ltd

## COURSE SCHEDULE

Week	Date	Topic	Tasks/Assessments
1	08/20 – 08/23	Biosecurity and the importance of invasive species	Introduction post due by 08/30 at 11:59 pm
2	08/26 – 08/30	Invasive species, trade, and Florida invaders	Quiz 1 due by 08/30 at 11:59 pm
3	09/03 – 09/06	Methods for invasive species management in Florida	Term paper topic due by 09/06 at 11:59 pm (all students)
4	09/09 – 09/13	Arthropods as disease vectors and the Florida-Cuba pathway	Discussion 1 – Zika virus due by 09/13 at 11:59 pm
5	09/16 – 09/20	U.S. Department of Human and Health Services (HHS) and select agents: Potential diseases of human concern	Term paper draft due by 09/20 at 11:59 pm (all students)  Discussion 2 – The Cuban and Caribbean Pathway due by 09/20 at 11:59 pm
6	09/23 – 09/27	Animal biosecurity	Quiz 2 due by 09/27 at 11:59 pm
7	09/30 – 10/03	Animal biosecurity continued	
8	10/07 – 10/11	Aquaculture biosecurity and fish risk assessment <i>Guest Lecture: Dr. Jeff Hill, Department of Forest and Aquatic Sciences</i>	Quiz 3 due by 10/11 at 11:59 pm  Discussion 3 – Zoo Biosecurity due by 10/18 at 11:59 pm
9	10/14 – 10/18	Humans and biosecurity issues	Exam 1 due by 10/18 at 11:59 pm
10	10/21 – 10/25	Mollusks as invasive species	Quiz 4 due by 10/25 at 11:59 pm
11	10/28 – 11/01	Plant parasitic nematodes and the importance of sample submission	Final term papers due by 11/01 at 11:59 pm
12	11/04 – 11/08	International, regional and local arthropod pests of concern <i>Guest Lecture: Dr. Lisa Conti, FDACS Deputy Commissioner and Chief Science Officer</i>	Discussion 4 – Farm biosecurity due by 11/08 at 11:59 pm  Evaluation of two other students' term papers due by 11/08 at 11:59 pm
13	11/12 – 11/15	Plant pathogens and weed issues	Quiz 5 due by 11/15 at 11:59 pm
14	11/18 – 11/22	Incident Command System (ICS) and the state of Florida response <i>Guest Lecture: Mr. Steve Hildebrandt, FDACS-DPI</i>  <b>Happy Thanksgiving!</b>	
15	11/25 – 11/29	Conclusion and synthesizing concepts	
16	12/02 – 12/06		Exam 2 due by 12/06 at 11:59 pm

## COURSE POLICIES

### Course Requirements

There are 2 examinations, 4 graded discussions, a graded introduction post, 5 quizzes, and a term paper to complete the course requirements.

### Examinations

There are two, non-cumulative exams (50 points each). The first exam will cover weeks 1 to 8 while the second exam will cover weeks 9 to 15. The exams are open-book and essay-based. Each exam will be made available and accessible in Canvas from Wednesday 8:00 am EST to Friday 11:59 pm EST of the exam week. Once you begin the exam, you will have 4 hours to complete it in a single session, so do not open the exam until you are ready to complete it.

### Quizzes

There are five quizzes (10 points each) throughout the course. The quizzes will consist of 10 multiple choice, mix and match, and true/false questions and will cover knowledge of the syllabus (Quiz 1), lectures and/or required readings (Quizzes 2 – 5). The quizzes are closed-book and will be made available and accessible in Canvas from Wednesday 8:00 am EST to Friday 11:59 pm EST of the quiz week. Once you begin the quiz, you will have 15 minutes to complete it in a single session, so do not open the quiz until you are ready to complete it.

### Discussions

There are four discussion assignments (50 points each) throughout the course. Questions will be posted by the instructor in the Discussion forum in Canvas and students are required to upload their responses. These questions are designed to aid the students' understanding of biosecurity issues. Each discussion assignment will be open for one week.

### Term Paper

All students will complete a scientific, research-based written term paper assignment worth 140 points. The topic should be focused on an analysis of a biosecurity system. If you are a pre-medical student, you may want to focus on disease transmission associated with insect vectors or go through the procedures of how hospitals sterilize equipment. If you are more interested in environmental science, you could write about an invasive species in Florida (how it got here, how it invaded, management tactics, etc.). More information on this assignment will be posted in Canvas. The term paper should be between 8 – 10 pages in length (including the title page, references, tables and/or figures). It should be double-spaced, 12 point, Times New Roman font with 1-inch margins. Your written assignment will require that you can assimilate lecture, reading, and other assignment content from the course, and search for your own references in some cases. Written assignments will be graded on the following criteria:

- Requested topic addressed
- Logical organization of content
- Use of requested font, margins, and length requirements for the written assignment
- Appropriate and accurate references utilized
- Grammatical accuracy

You are also required to evaluate two of your peer's term papers. Term paper assignments are due by 11:59 pm on the due date. Written assignments will be checked for plagiarism with Turnitin software (<https://lss.at.ufl.edu/help/Turnitin>). Plagiarism will result in a grade of '0' for the assignment. As a reminder, any sentence taken straight from a source must be quoted. If you take a

full sentence straight from a source without quotations (even if you have an in-text citation after) you will receive a zero on the assignment.

Overall, the term paper evaluations will be as follows:

1. Evaluation of term paper topic by instructor (10 points) – you are to submit the topic of your term paper, including a 3 – 5 sentence content summary, and a list of 3 references for approval by the instructor and the TAs before the due date. Submissions should be made in Canvas and will be evaluated using a rubric
2. Evaluation of term paper draft by instructor (30 points) – you are submit the draft of your term paper before the due date. The draft should not be more than 10 pages in length. The term paper draft will be evaluated by the instructor and the TAs using a rubric
3. Evaluation of final term paper by instructor (70 points) – you are to submit your final term paper before the due date for evaluation by the instructor and the TAs. The final term paper should not be more than 10 pages in length. The final term paper will be evaluated by the instructor and the TAs using a rubric
4. Evaluation of final term paper by peers (20 points) – Each term paper will be evaluated by two other students in the class using a rubric. The scores will be averaged, and that average score is the score the student receives
5. Submission of peer evaluation of term paper (10 points) – you are to submit your evaluation of the term papers of two other students that will be randomly assigned to you by the instructor. You will receive 0 points for no submission, 5 points for one submission and 10 points for 2 submissions

## GRADING POLICIES

The course grade is based on performance on the exams, quizzes, participation in discussion activities, and the written assignments. The final grades will be converted to percentages. The final grade will be assigned as follows:

Course Requirements		Point Value	Total Points
Introduction post		10	10
Discussions		50 each	200
Quizzes		10 each	50
Exams		50 each	100
Term paper	<i>Evaluation of term paper topic by instructor</i>	10	10
	<i>Evaluation of term paper draft by instructor</i>	30	30
	<i>Evaluation of final term paper by instructor</i>	70	70
	<i>Evaluation of final term paper by peers</i>	20	20
	<i>Submission of peer evaluation of term paper</i>	10	10
<b>Total</b>			<b>500</b>



## Grading Scale

Grade	Percentages	Points Required
A	93 - 100	465 - 500
A-	90 - 92.9	450 - 464.4
B+	87 - 89.9	435 - 449.4
B	83 - 86.9	415 - 434.4
B-	80 - 82.9	400 - 414.4
C+	77 - 79.9	385 - 399.4
C	73 - 76.9	365 - 387.4
C-	70 - 72.9	350 - 364.4
D+	67 - 69.9	335 - 349.4
D	63 - 66.9	315 - 334.4
D-	60 - 62.9	300 - 314.4
E	<59.9 and below	299.5 and below

## UNIVERSITY OF FLORIDA POLICIES AND ASSISTANCE

### Grades and Grade Points

For information on current UF policies for assigning grade points, see <https://catalog.ufl.edu/UGRD/academic-regulations/grades-grading-policies/>

### Attendance and Make-Up Work

Requirements for class attendance and make-up exams, assignments and other work are consistent with university policies that can be found at: <https://catalog.ufl.edu/UGRD/academic-regulations/attendance-policies/>

### Online Course Evaluation Process

Student assessment of instruction is an important part of efforts to improve teaching and learning. At the end of the semester, students are expected to provide feedback on the quality of instruction in this course using a standard set of university and college criteria. Students are expected to provide professional and respectful feedback on the quality of instruction in this course by completing course evaluations online via GatorEvals. Guidance on how to give feedback in a professional and respectful manner is available at: <https://gatorevals.ua.ufl.edu/students/>. Students will be notified when the evaluation period opens and can complete evaluations through the email they receive from GatorEvals, in their Canvas course menu under GatorEvals, or via <https://ufl.bluera.com/ufl/>. Summaries of course evaluation results are available to students at: <https://gatorevals.ua.ufl.edu/public-results/>.

### Academic Honesty

As a student at the University of Florida, you have committed yourself to uphold the Honor Code, which includes the following 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."* You are expected to exhibit behavior consistent with this commitment to the UF academic community, and on all work submitted for credit 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."*

It is assumed that you will complete all work independently in each course unless the instructor provides explicit permission for you to collaborate on course tasks (e.g. assignments, papers, quizzes, exams). Furthermore, as part of your obligation to uphold the Honor Code, you should report any condition that facilitates academic misconduct to appropriate personnel. It is your individual responsibility to know and comply with all university policies and procedures regarding academic integrity and the Student Honor Code. Violations of the Honor Code at the University of Florida will not be tolerated. Violations will be reported to the Dean of Students Office for consideration of disciplinary action. For more information regarding the Student Honor Code, please see: <http://www.dso.ufl.edu/sccr/process/student-conduct-honor-code>.

### **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.

### **Services for 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. Students requesting classroom accommodation must first register with the Dean of Students Office. The Dean of Students Office will provide documentation to the student who must then provide this documentation to the Instructor when requesting accommodation

0001 Reid Hall, 352-392-8565, <https://disability.ufl.edu/>

### **Campus Helping Resources**

Students experiencing crises or personal problems that interfere with their general well-being are encouraged to utilize the university's counseling resources. The Counseling & Wellness Center provides confidential counseling services at no cost for currently enrolled students. Resources are available on campus for students having personal problems or lacking clear career or academic goals, which interfere with their academic performance.

- *University Counseling & Wellness Center, 3190 Radio Road, 352-392-1575, [www.counseling.ufl.edu](http://www.counseling.ufl.edu)*
  - Counseling Services
  - Groups and Workshops
  - Outreach and Consultation
  - Self-Help Library
  - Wellness Coaching
- U Matter We Care, [www.umatter.ufl.edu/](http://www.umatter.ufl.edu/)
- *Career Connections Center, First Floor JWRU, 392-1601, <https://career.ufl.edu/>.*

Student Complaints:

- Residential Course: <https://sccr.dso.ufl.edu/policies/student-honor-code-student-conduct-code/>.
- Online Course: <http://www.distance.ufl.edu/student-complaint-process>