

SYLLABUS for LABORATORY
AL-340L Pest Management
College of Natural and Applied Science
University of Guam

Instructor

Jesse P. Bamba

jbamba@triton.uog.edu

Office hours: MWF 9:00 am- 11:00 am

Office: ALS room 105c, 735-2091

Phoebe Wall

pwall@triton.uog.edu

Office hours: MWF 9:00 am- 11:00 am

Office: ALS room 105d, 735-2090

Basic Information

AL-340L Pest Management

One (1) credit hour

Lab in ALS-124, Thursday, 11:10 am to 2:05 pm

Course Description

This lab will reinforce concepts introduced in the lectures with hands-on activities and field trips to farms and experiment stations. Special emphasis will be on techniques of Integrated Pest Management (IPM).

Semester-Long Experiment

Using scientific methodology, students will be expected to conduct evaluations of the many types of agriculture crops being grown at the different farms around the island.

The students will be expected apply IPM practices learned throughout the semester to help develop a comprehensive pest management strategy. The results will be compiled in a lab report.

Textbook/Computer Access

No textbook is required, instead students will be expected to use their computers to access online resources, such as UOG-CNAS's website for extension publications (<http://cnas-re.uog.edu/#>)

Students are also expected to maintain a binder for recording data that will be used in lab reports.

Grading

A grade, separate from the lecture grade, will be awarded for the lab.

Participation	260
Lab reports	<u>140</u>
TOTAL	400

Points	Percentage	Grade
360-400	90-100%	A
320-359	80-89%	B
280-319	70-79%	C
240-279	60-69%	D
0-239	0-59%	F

Lab Schedule

Date	Lab #	Topic
January 27, Thursday	Lab 1	Field trip – Tamuning farm - Jennifer Ada
February 03, Thursday	Lab 2	UOG campus - CRB
February 10, Thursday	Lab 3	Agriculture Pests
February 17, Thursday	Lab 4	Practice Core exam
February 24, Thursday	Lab 5	Banana propagation
March 03, Thursday	Lab 6	Untalan Middle school garden
March 10, Thursday	Lab 7	Core exam
March 17, Thursday	Lab 8	Field Trip: Yigo farm – Kenny Perez
March 21-26	No Class	Spring Break

March 31, Thursday	No class	Charter Day
April 07, Thursday	Lab 9	Field Trip: Tumon – Pacific Island Club
April 14, Thursday	Lab 10	Field Trip: Dededo farm - Katrina Reyes
April 21, Thursday	Lab 11	Transplant banana House 2
April 28, Thursday	Lab 12	Field Trip: Tamuning – Home Depot
May 5, Thursday	Lab 13	Field Trip: Inarajan farm – Brian L. G.
May 12, Thursday	Lab 14	8A agriculture private exam

Student Learning Objectives (AL 340):

- a. Learn the basic principles of IPM.
- b. Understand relationship of plants in the environment.
- c. Understand basic physiological and chemical processes between plants and pests.
- d. Learn basic botanical and horticultural terminology.
- e. Learn basic horticultural skills of plant culture.

Program Learning Objectives (Tropical Agricultural Science Program):

- f. **Disciplinary Knowledge:** Graduates apply their agricultural knowledge and skills in the production of agricultural products using best management practices and addressing locally important issues such as island pocket economies, conservation and invasive species problems. They use their knowledge and understanding of scientific concepts to diagnose and solve problems in agricultural fields.
- g. **Quantitative Skills:** Graduates apply numerical methods in research design, financial analysis, pesticide and fertilizer application, irrigation and field setup and use computers for analysis of data and preparation of reports of results.
- h. **Research/laboratory skills:** Graduates are competent in basic laboratory procedures and safety in the laboratory and the field. Students will develop applied thinking skills to help them formulate testable hypotheses and create effective experimental designs.

- i. Communication Skills: Graduates can gather and assess evidence and use it to create effective lab and scientific reports, and oral presentations. They will develop the ability to identify, summarize and effectively communicate current issues to given audiences.
- j. Technological Literacy: Graduates are competent at applying technological skills to their chosen work. They are also a competent in the use of analog and digital equipment used in modern agricultural systems. Graduates effectively judge the usefulness and appropriateness of existing and new technologies in their professional endeavors.
- k. Professionalism: Graduates work effectively together in teams in laboratory, community and field settings while following ethical principles in analysis and communication. Graduates apply their gained knowledge in addressing natural resource and social issues.

Institutional Student Learning Outcomes (ILO's)

- l. Effective Oral and Written Communication
- m. Responsible use of Knowledge, Natural Resources, and Technology
- n. An Appreciation of Arts and Sciences
- o. An Interest in Personal Development and Lifelong Learning

Special Accommodations (ADA):

If you are a student with a disability who will require an accommodation(s) to participate in this course, please contact me privately to discuss your specific needs. You will need to provide me with documentation concerning your need for accommodation(s) from the EEO/ADA Office. If you have not registered with the EEO/ADA Office, you should do so immediately at 735-2244/2971/2243 (TTY) to coordinate your accommodation request.

Academic dishonesty:

All assignments and tests must be your own work..

Tobacco-free/Smoke-free campus:

UOG is a tobacco-free campus. Thank you for not using tobacco products on campus, and for helping make UOG a healthy learning and living environment.

Family Educational Rights and Privacy Act (FERPA): link
<http://www2.ed.gov/policy/gen/guid/fpco/ferpa/index.html>

COVID Statement:

The University of Guam is experiencing continued disruption to delivery of instruction during the global coronavirus pandemic. The University will follow executive orders and may be forced to close again, causing more modifications as the semester progresses. All changes will be posted on the UOG website, www.uog.edu.

- a. Contact OIT for technical support at 735-2630 or oit@triton.uog.edu
- b. Contact the Triton Advising Center at 735 – 2271 or tac@triton.uog.edu
- c. Contact Isa Psychological Services center at 735-2883 or isa@triton.uog.edu

In face-to-face courses, wearing masks and social distancing is required. Anyone who has a fever, or any other symptom, should stay home. If you do not comply with these directions, you will be asked to leave, and if you do not, class will be cancelled.

Patience, respect, and cooperation are needed from all of us to persist through these uncomfortable times.