Certificate Assessment Plan: Medical Entomology (Undergraduate) 2012-2013

Institutional Assessment
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Office of the Provost

University of Florida

Institutional Assessment

Continuous Quality Enhancement Series

Landscape Pest Management

College of Agricultural and Life Sciences

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A. Rationale

Entomology courses are not commonly available at colleges and universities, yet this technical background is valuable for those working in mosquito management and public health. This curriculum complements the biology degree, a common background found among employees working in these areas, by providing in-depth knowledge about pests.

B. Mission

The Medical Entomology undergraduate certificate program supports the missions of the college and university to serve the nation's and state's critical needs by contributing to a well-qualified and broadly diverse citizenry, leadership and workforce.

C. Student Learning Outcomes (SLOs)

1. Apply the scientific method to the study of insect biology and in insect management.
2. Identify biting pests, including those associated with disease transmission to humans and animals.
3. Interpret primary literature, analyze experimental data and interpret results as related to insects, disease and environmental management.

D. Assessment Timeline for Certificates

Medical Entomology College of Agricultural and Life Sciences

Assessments / SLOs	Laboratory Exercises	Insect Collection	Written Reports
#1	X		
#2		X	
#3			X

E. Assessment Cycle Chart for Certificates

Medical Entomology — College of Agricultural and Life Sciences

Analysis and Interpretation: May – June annually
Improvement Actions: Completed by August 1 of each year
Dissemination: Completed by September 1 of each year

Year / SLOs	12-13	13-14	14-15	15-16
#1	X	X	X	X
#2	X	X	X	X
#3	X	X	X	X

F. Methods and Procedures

SLO #1 is assessed through laboratory exercises in ENY 3005L that address experimental design, data collection and data analysis.

SLO #2 is assessed via an insect collection containing properly identified insects as determined by faculty teaching ENY 3005L, and by completing the mosquito identification laboratory.

SLO #3 is assessed via written reports on assigned articles from the primary literature. Each report must include an assessment of the hypothesis or objectives of the study, experimental methods, results and conclusions, including alternative hypothesis.

Faculty-developed scoring rubrics are used for SLO assessment in conjunction with appropriate courses.

Insect collection grading rubric:

Half of the collection grade is derived from having the correct number of orders, the other half from the correct number of families. This assumes that everything is correctly labeled and identified.

Grad students: you are required to provide 16 orders and you only have 15, you lose 1/16 of the possible order points, which is 6.25%. 6.25% of your potential 25 points is 1.5 points on your final collection grade. Same for families: you are required to present 100 families so each missing family is only 1%, or 0.25 points on the final grade.

Undergrad students: you are required to provide 12 orders and you only have 11, you lose 1/12 of the possible order points, which is 8.33%. 8.33% of your potential 25 points is 2 points on your final collection grade. Same for families: you are required to present 75 families so each missing family is only 1.33%, or 0.33 points on the final grade.

You do not earn points if the ID is incorrect, but if it is close (easy mistake) you can get ½ credit. You can lose up to 5 points for poor labeling and 5 points for disorderly appearance.

G. Assessment Oversight

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