University of Hawaii Community Colleges
Proposal to Initiate, Modify or Delete a Course

1. Type of Action
   - A. Addition  ✓ Regular or  Experimental or  Other (click and type to specify)
   - B. Deletion
   - C. Modification:  in credits  in title  in number or alpha  in prerequisites or co-requisites  Other (click to specify)

2. New Alpha, Number and Title  AG 132 Integrated Pest Management
3. Credits 3 credits

4. Old Alpha, Number and Title  AG 32 BCD Plant Disease and Pest Control
5. Credits 3 credits

6. New Catalog Description
   Strategies of integrated pest management; biological and cultural pest controls, weed control, disease control, insect control.

7. Select box and type specific information in text box.
   □ Prerequisites  □ Corequisites or  □ Recommended Preparation

8. Student Contact Hours Per Week
   Lecture 3
   Lecture/Lab  Lab
   Other (click to specify)

9. Proposed Date of First Offering
   Semester  Fall
   Year  2010

10. This course  ✓ is proposed for the Agricultural Tech. Program Program.  ✓ can fulfill Agr Specialty Requirement. If Other, specify

11. This course Makes No Difference in the number of credits required for the program/core.

12. Equivalent or similar courses offered in the UH System:

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13. This course is (check one and click in appropriate textbox and provide details):
   - □ Already articulated with
     Provide details of existing or desired articulation (date, college(s), purposes, pre-major, etc.) in this space:
   - □ Appropriate for Articulation with
     Provide details of existing or desired articulation (date, colleges(s), purposes, pre-major or major, etc.) in this space:
   - ✓ Not yet appropriate for Articulation.

14. Reason for Initiating, Modifying or Deleting Courses or Other Pertinent Comment:
   Society and thus the horticulture industry has embraced a more ecological approach to pest management. This course addresses this concern.

Requested by:

Approved by:

CCCMM #6100 (Amended for WCC use October 2002)
Addendum
Course Ag 132 Integrated Pest Management
#14 Add This course uses a College level textbook and students are expected to show they have the reading and writing skills expected of an introductory college course.
Levels of Review of Course Proposal at Windward Community College

Course Alpha, Number, and Title: AG 132 Integrated Pest Management

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1. Department Area (more than one departmental instructor's signature required)

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2. Department

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Was this course discussed in a department meeting? ☑ Yes ☐ No

3. Division

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4. Curriculum Committee Review

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Curriculum Committee Chairperson

CCC M #6100 (Amended for WCC use October 2002)
1. How is this course related to the education needs and goals of the College/Department/Community as reflected in the EDP/ADP?

   This course replaces the outdated AG 32 BCD Plant Disease and Pest Control

2. Provide details of any additional staff, equipment, facilities, library/media material, faculty preparation and other financial support that would be required to implement this course. (Include an estimate of the actual cost of supplies and equipment.) What has been done to provide for these additional costs for the proposed date of offering? Who will teach the course?

   NONE Will be taught by current instructor

3. Is a similar course taught elsewhere in the UH system? * If yes, provide details of how this course differs from existing similar courses.

   No

4. Is this course experimental and/or unique to Windward Community College? * If yes, provide rationale and details of its impact on the College Curriculum

   No

5. Is a similar course taught in the upper division level by a 4-year UH college? * If yes, explain why this course is appropriate at the lower division or how it differs from its upper division counterpart.

   No

6. Please attach a complete course outline. Your course outline should address all the items listed in the Guidelines for Course Outlines.

7. If this course is numbered 100 or above or appropriate for transfer to a 4-year college, complete and attach WCC Form for Transfer Courses (blue). See criteria for transfer courses.
Course Alpha and Number AG 132 Integrated Pest Management

Submitted by Dave Ringuette

Date October 28, 2009

1. List the counterpart to this course on any 4-year UH campus. Describe the relationship between the course any related baccalaureate program area.

None

2. Is this course taught or accepted by major accredited colleges or universities? Give one or two examples.

Mercer County Community College

3. Please attach a complete course outline if you have not done so already. Your course outline should address all the items listed in the Guidelines for Course Outlines.
AG 132 Integrated Pest Management
3 credits
Days and Time

INSTRUCTOR: Ringuette
OFFICE: Hale Uluwehi
OFFICE HOURS:
TELEPHONE: 236-9265
EFFECTIVE DATE: Fall 2010

WINDWARD COMMUNITY COLLEGE MISSION STATEMENT

*Windward Community College is committed to excellence in the liberal arts and career development; we support and challenge individuals to develop skills, fulfill their potential, enrich their lives, and become contributing, culturally aware members of our community.*

CATALOG DESCRIPTION

Strategies of integrated pest management; biological and cultural pest controls, weed control, disease control, insect control.

Activities Required at Scheduled Times Other Than Class Times

None

STUDENT LEARNING OUTCOMES

The student learning outcomes for the course are:
1. Identify major insects, weeds, diseases that are detrimental to the horticulture industry in Hawaii

2. Define Integrated Plant Management and develop an IPM plan

3. Understand and use economic thresholds

4. Identify common predators and parasites

5. Identify management strategies to reduce pest pressures on plants
### Concepts or Topics
(List the terms, topics, or concepts students should know or understand)

- Integrated Pest Management
- Economic Thresholds
- Biological Controls
- Plant Cultural Controls
- 
- 

### Skills or Competencies
(List what students should be able to do in order to complete the student learning outcomes)

1. Identify major insects, weeds, diseases
2. Develop an IPM Plan
3. Identify Predators and Parasites
4. 
5. 
6. 

### COURSE TASKS

- Attend lectures
- Read assigned material.
- Participate in class discussions
- Develop an IPM plan

### ASSESSMENT TASKS AND GRADING

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<tr>
<th>Task</th>
<th>Percentage</th>
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<tr>
<td>Exams</td>
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<td>Quizzes</td>
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<tr>
<td>IPM Project</td>
<td>30%</td>
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<tr>
<td>Participation</td>
<td>20%</td>
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### LEARNING RESOURCES

Concepts in Integrated Pest Management Prentice Hall
10x hand lens recommended

### DISABILITIES ACCOMMODATION STATEMENT

If you have a physical, sensory, health, cognitive, or mental health disability that could limit your ability to fully participate in this class, you are encouraged to contact the Disability Specialist Counselor to discuss reasonable accommodations that will help you succeed in this class. Ann Lemke can be reached at 235-7448, lemke@hawaii.edu, or you may stop by Hale ‘Akoakoa 213 for more information.

Revised May 10, 2007
Mercer County Community College
Science and Health Professions Division
OHT 241 – Equipment and Integrated Pest Management
Spring 2008

Credits: 3
Lecture Hours: 2
Laboratory Hours: 2

Instructor: Amy Iseneker, Assistant Professor
Office Number: MS 124
Phone Number: (609)570-3372
E-Mail: isenekea@mccc.edu

Course Description:
Equipment and procedures in horticultural settings with emphasis on pest management. Includes strategies and theories of integrated pest management; biological pest controls; application of pesticides; weed control; calibration of equipment; and spraying techniques.

Prerequisites: OHT 102 or permission of course coordinator

Required Text:
Title: Concepts in Integrated Pest Management
Author: Norris; Caswell-Chen; Kogan
Publisher: Prentice Hall

Optional Text:
Author: Bert L. Bohmont
Publisher: Prentice Hall

Optional Text:
Title: Common Sense Pest Control
Author: W. Olkowski; Daar; H. Olkowski
Publisher: The Taunton Press

Grading:
Grades will be based on the following point system:
Midterm Exam 150
Final Exam 150
Quizzes 100
Reports 100
Final Project 100
Total 600
Course Objectives:
Identify major insects, weeds, diseases, and other pests that are detrimental to every aspect of the horticulture industry.
Define Integrated Pest Management.
Implement a successful Integrated Pest Management program.
Use and identify a wide variety of chemical, biological, cultural, mechanical, and preventative control methods for greenhouse and nursery crops.
Calibrate sprayers and spreaders for the application of grass seed, fertilizers, and pesticides.
Become familiar with various pieces of equipment such as skid steers, loaders, sod cutters, arborist equipment etc.
Demonstrate safe mixing and application of pesticides.
Identify possible jobs that are available in the field of Integrated Pest Management.
Understand and use economic thresholds.
Calculate growing degree days.
Identify the steps necessary for obtaining your pesticide applicators license.
Perform various Integrated Pest Management sampling techniques.
Identify common predators and parasites.
Use general management strategies such as proper plant, soil, and fertilizer selection.
Semester Project  
OHT 241

You are required to develop an Integrated Pest Management proposal for a real or theoretical business. Your project idea must be approved before you get started. Please include the following information...

Choose a business that you want to do a proposal for. Your business should be one of the following:
- field/forage crop farm
- vegetable farm
- orchard
- greenhouse operation
- golf course
- private estate
- nursery operation.

Your business should be of reasonable and realistic size.

Choose your plants. You must have a minimum of 5 different plants grown for the business.

Create a detailed plan for the Integrated Pest Management proposal that you are submitting. Your plan should include, but not be limited to the following information:
- descriptions and/or pictures of the most common weeds, insects, and diseases that affect the crops that you are growing
- chemical, mechanical, cultural, biological, and preventative controls that you plan on using in order to manage your plant pests
- how you plan on scouting for your pests
- the equipment and supplies that you will need in order to implement your program
- the damage levels that your plants can withstand
- estimated cost for the proposal to be implemented.

Please include a bibliography with your project.