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

1. Type of Action
   - A. Addition
   - B. Deletion
   - C. Modification: in credits, in title, in number or alpha, in prerequisites or co-requisites, in number or alpha

2. New Alpha, Number and Title  AG 155 Subtropical Arboriculture

3. Credits 3 credits

4. Old Alpha, Number and Title  N/A

5. Credits *

6. New Catalog Description
   The introduction of arboriculture and the care of community trees. This is a balanced course of practical skills and scientific tree care.

7. Select box and type specific information in text box.
   - Prerequisites
   - Corequisites or Recommended Preparation
   - AG 20/120 or equivalent

8. Student Contact Hours Per Week
   - Lecture 3
   - Lecture/Lab
   - Lab
   - Other

9. Proposed Date of First Offering
   - Semester Spring
   - Year 2008

10. This course is proposed for the Agricultural Tech. Program. If Other, specify
    This course can fulfill *

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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<thead>
<tr>
<th>Campus</th>
<th>Alpha, Number, Title</th>
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<th>Alpha, Number, Title</th>
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<tr>
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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:
   This is one of four new courses being proposed for the new area of emphasis (Subtropical Urban Tree Care SUTC) within the Agriculture Technology Program. The Oahu tree care industry is valued at 40 million dollars and there are no educational programs supporting the industry.

Requested by:

Approved by:

CCCCM #6100 (Amended for WCC use October 2002)
Levels of Review of Course Proposal at Windward Community College

Course Alpha, Number, and Title: AG 155 Subtropical Aboriculture

<table>
<thead>
<tr>
<th>Signatures</th>
<th>Dates</th>
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<tbody>
<tr>
<td>1. Department Area (more than one departmental instructor’s signature required)</td>
<td>9/16/07</td>
</tr>
<tr>
<td>Joseph E. Cioti</td>
<td>9/16/07</td>
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<tr>
<td>Professor</td>
<td>9/16/07</td>
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<tr>
<td>2. Department Chairperson</td>
<td>9/16/07</td>
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<tr>
<td>Department Chairperson</td>
<td>9/16/07</td>
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<tr>
<td>Was this course discussed in a department meeting?</td>
<td>Yes</td>
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<td>3. Division</td>
<td>9/26/07</td>
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<tr>
<td>Margaret Coberly</td>
<td>9/26/07</td>
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<td>4. Curriculum Committee Review</td>
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<tr>
<td>Approved</td>
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<tr>
<td>Disapproved</td>
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<td>Reason:</td>
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<td>Jean Shibusawa</td>
<td>October 23, 2007</td>
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<td>Curriculum Committee Chairperson</td>
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</table>

CCCM #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?

   The 2006 STRATEGIC PLAN under 1.0 letter F; explore possible additions to curriculum(eg..agriculture) Under 3.0 Promote workforce development and I. Support and expand high quality technical course offerings.

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?

   The current Agriculture professor will undertake this course as part of his current workload. No other additional resources are foreseen for this course.

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.
University of Hawaii Community Colleges
Proposal to Initiate, Modify or Delete a Course
Articulation with 4-year UH Campus Form

WCC Form for Transfer Courses
(To be completed for articulation with any 4-year UH campus)
(This sheet was originally blue.)

Course Alpha and Number AG 155 Subtropical Arboriculture

Submitted by Dave Ringuette

Date February 20, 2007

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.

University of Massachusetts Forestry 332, Allegany College of Maryland Forestry 228 Urban Forestry

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 155 Subtropical Arboriculture
3 credits
Time: (days and time)

INSTRUCTOR: Dave Ringuette
OFFICE: Hale Uluwehi
TELEPHONE: 808-236-9265
EFFECTIVE DATE: Spring 2008

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 member of our community.*

Catalog Description

An introduction to arboriculture and the care of community trees. This is a balanced course of practical skills and scientific tree care.

Activities Required at Scheduled Times Other Than Class Times

None

STUDENT LEARNING OUTCOMES

Upon successful completion of the course students will be able to:
1. identify and describe the characteristics of tree species on the Hawaii ISA list,
2. describe tree anatomy and physiology
3. recommend techniques of tree preservation during construction
4. use ISA standards (ANSI A300) when pruning trees

COURSE CONTENT (may be part of the appendix)

*Concepts or Topics (What students should know or understand)*

1. Tree anatomy
2. Tree physiology

*Issues (Issues that are important in this discipline)*

1. Tree care/preservation

*Skills or Competencies (What students should be able to do in order to complete the student learning outcomes)*

1. Prune trees to ISA standards
2. Identify and characterize trees in urban Hawaii
3. Preserve trees during construction
2. Environmental influences of trees

Course Tasks
Written examinations and quizzes are based upon the concepts, skills, and/or issues discussed in class. You will be required to show your competencies with your hands and pen. You are expected to read and comprehend the textbooks, and lectures, and actively engage in the learning process. You must be physically able to prune up to 4-inch branches.

METHODS OF EVALUATION:

Two Examinations: 50%
Seven Quizzes: 30%
Participation 20%

GRADES

A= 90% or higher
B= 80-89%
C= 70-79%
D= 60-69%
F= less than 60%

Please refer to the WCC College catalog for audit, withdrawal, and incomplete options.

STUDENT RESPONSIBILITY

1. Students unable to be present on the day of the exam are required to notify the instructor at least one day prior to the exam day. It is the responsibility of the student to make up any exams and or classes missed.

2. Students absent from class will be held responsible for the material covered in class and any announcements made in class.
ATTENDANCE POLICY

You will be allowed 3 sick days and one vacation day during the semester. If you are more than one-half hour tardy you will be docked a half day. If you use more than the allotted time you will lose 2 points toward the final grade for each day missed beyond the allocated amount. If you do not use up your allotted leave time you will gain 2 points toward the final grade for each unused day.

Learning Resources and Materials
ISA Arborists’ Certification Study Guide by Sharon Lilly
ISA Best Management Practices- Fertilizing, pruning
Additional Information (may be part of an appendix)
You will be required to show proper pruning methods on trees. Therefore you must have the physical ability to cut a 4-inch branch with a handsaw.
The use of cell phones and pagers during class is not permitted. First violation is a verbal warning, second violation is a 5-point reduction on an exam, third violation, 10-point reduction of final grade, and fourth violation is termination from the course.
AG 155 SUBTROPICAL ARBORICULTURE
Topics

The Tree Care Industry
Basic Tree Biology (anatomy and physiology)
Urban Tree Environments
CODIT
Tree Identification, Selection, Characteristics
Pruning
Electrical Hazards
Soil Modification
Fertilizing
Construction and Trees
Grass and Trees
Tree Planting
Tree Injections
Specialty Tree Services