PROPOSAL TO INITIATE, MODIFY OR DELETE A COURSE

1. TYPE OF ACTION
   □ A. Addition: □ Regular or □ Experimental or □ Other ________________________________ (specify)
   □ B. Deletion
   □ C. Modification: □ in credits □ in title  □ in number or alpha □ in prerequisites/corequisites □ other ________________________________ (specify)

2. NEW ALPHA, NUMBER AND TITLE   AG 052 Orchid Culture
3. CREDITS 3

4. CURRENT ALPHA, NUMBER AND TITLE  AG 047 Orchid Culture
5. CREDITS 3

6. NEW CATALOG DESCRIPTION (If necessary, continue on another page)
   Extensive study of orchid identification, breeding, growth, and culture.

7. PREREQUISITES, COREQUISITES, OR RECOMMENDED PREPARATION
   NONE

8. STUDENT CONTACT HRS. PER WEEK
   Lecture 3 Lecture/Lab ___ Lab ___
   Other (specify)

9. PROPOSED DATE OF FIRST OFFERING
   Summer/Fall 2001

10. THIS COURSE  □ IS PROPOSED FOR THE Agriculture PROGRAM
    □ CAN FULFILL Cert. of Completion in AG Tech

11. THIS COURSE  □ INCREASES □ DECREASES □ makes no change in number of credits required for the program/core

12. EQUIVALENT OR SIMILAR COURSES OFFERED IN THE UH SYSTEM:

<table>
<thead>
<tr>
<th>Campus</th>
<th>Alpha Number, Title</th>
<th>Campus</th>
<th>Alpha Number, Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>NONE</td>
<td>NONE</td>
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</tbody>
</table>

13. THIS COURSE IS
   □ ALREADY ARTICULATED □ APPROPRIATE FOR ARTICULATION □ NOT YET APPROPRIATE FOR ARTICULATION
   (Provide details of existing or desired articulation (date, college(s), purposes, pre-major or major, etc.)

14. REASON FOR INITIATING, MODIFYING OR DELETING COURSE OR OTHER PERTINENT COMMENT:
   PCC recommendation to change the numbering to AG 52.

REQUESTED BY:
Department Chairperson
Date: 8/16/05

APPROVED BY:
Curriculum Committee
Date: 11/28/00

Curtis M. H. Mat
Faculty Senate
Date: 3/14/01

Dean of Instruction
Date: 3/16/01

Proctor
Date: 3/28/01

Change recorded by Catalog Preparer
Date:

CCC#6100 (Amended for WCC use March 2000)
**LEVELS OF REVIEW OF COURSE PROPOSAL AT WCC**

Course Alpha Number and Title: ________________________________

<table>
<thead>
<tr>
<th>Signatures</th>
<th>Dates</th>
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</thead>
<tbody>
<tr>
<td>1. Department Area (more than one instructor in the department)</td>
<td>8/10/00</td>
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<tr>
<td></td>
<td>8/14/00</td>
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<td>8/25/00</td>
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<td>8/25/00</td>
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<td>2. Department</td>
<td>8/16/05</td>
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<tr>
<td>Department Chairperson</td>
<td></td>
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<tr>
<td>This course was reviewed and approved in a department meeting on</td>
<td>5/5/05</td>
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<tr>
<td>3. Division</td>
<td>8/14/00</td>
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<tr>
<td>Assistant Dean of Instruction</td>
<td></td>
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<tr>
<td>4. Curriculum Committee Review</td>
<td></td>
</tr>
<tr>
<td>Approved</td>
<td>8</td>
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<tr>
<td>Disapproved</td>
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<tr>
<td>Reason:</td>
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<td></td>
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<tr>
<td>Curriculum Committee Chairperson</td>
<td>11/28/00</td>
</tr>
</tbody>
</table>

(Revised March 2000)
Course: AG 152  Submitted by: Ingelia White  Date: 9/25/2000

1. How is this course related to the educational needs and goals of the College/Department/Community as reflected in the EDP?
   - To offer a transfer level Agriculture elective to the College of Tropical Agriculture and Human Resources. This course will offer students another choice if they have an interest in a Bachelor's Degree.

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?
   - No additional cost. A qualified instructor at Science Department will teach the course.

3. Is a similar course taught elsewhere in the UH system? No
   If yes, provide details of how this course differs from existing similar courses.

4. Is this course experimental and/or unique to Windward Community College?
   Yes.
   If yes, provide rationale and details of its impact on the College curriculum.
   The course, which includes plant tissue culture techniques, provides instruction for students who need training for jobs in Hawaii's plant nursery business.

5. Is a similar course taught on the upper division level by a 4-year UH college?
   No
   If yes, explain why this course is appropriate at the lower division or how it differs from its upper division counterpart.

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

7. If the 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 attached criteria for transfer courses).
WINDWARD COMMUNITY COLLEGE

OUTLINE OF COURSE OBJECTIVES

COURSE NAME: Orchid Culture
COURSE ALPHA: AG 52
CREDIT HOURS: 3
CATALOG DESCRIPTION: An extensive study of orchid identification, breeding, growth, and culture (3 hrs. lect.).

REQUIREMENT COURSE SATISFIES:
   At WCC: Meets Certificate of Completion in Agricultural Technology
   At UHM: None

PREREQUISITES: None
READING LEVEL OF TEXT (S): College
INSTRUCTOR: Ingelia White Ph.D
OFFICE: I'miloa 102
OFFICE PHONE: 235-7318
EFFECTIVE DATE: Summer/Fall 2001
A. COURSE GOALS

1. To provide the student a knowledge of orchid identification and hybridization.
2. To enable the student to perform many types of propagation techniques (traditional and tissue culture methods), and growing orchids successfully.

B. COURSE OBJECTIVES:

The student will be able:
1. To identify the many orchid genera, species, and hybrids.
2. To provide suitable cultural requirements (include optimum temperature, light intensity, media, pest/disease control, watering and fertilizing).
3. To perform different propagation methods.
4. To make successful intergeneric hybrids.

C. METHOD OF GRADING:

<table>
<thead>
<tr>
<th>Activity</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 Quizzes</td>
<td>300</td>
</tr>
<tr>
<td>3 Field trip reports</td>
<td>150</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>450</strong></td>
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</tbody>
</table>

Final grade is based on total possible points:
A = 90 - 100%
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. Students may obtain a credit/no credit option with instructor permission. In order to receive credit for the course, students must meet at least a minimum passing score of 70%.

D. MODE OF INSTRUCTION:

The previously described objectives will be achieved through the aid of the following learning activities: class lectures, assigned readings, field and lab works, and field trips.
E. STUDENT RESPONSIBILITY:

1. Students are expected to attend all lectures, field trips, field work, lab work, and complete all course assignments, and exams.
2. Students unable to come on the day of the exam are required to notify the instructor in advance to arrange for an immediate make up test (it is required to bring a doctor's note or provide a legitimate reason).
3. Students absent from class will be held responsible for the material covered in class and any announcements made in class.

F. TEXT AND REFERENCES:

Northen, Rebecca, T. Home Orchid Growing. Van Nostrand Reinhold Company. Hand outs will be provided by the instructor.

G. COURSE TOPICS:

Week 1. Introduction and Botanical Terminology (vegetative)
Week 2. Botanical Terminology (vegetative)
Week 3. Botanical Terminology (generative)
Week 4. Key to the Tribes
Week 5. Key to the Genera
Week 6. Growth and Culture
Week 7. Field trip and field work
Week 8. Propagation (traditional method)
Week 9. Propagation (tissue culture, lab work)
Week 10. Propagation (tissue culture, lab work)
Week 11. Pest and Disease control
Week 12. Field trip and field work
Week 13. Genetics
Week 14. Breeding
Week 16. Orchid identification
Week 17. Transplanting, field work
Week 18. Maintenance