PROPOSAL TO INITIATE, MODIFY OR DELETE A COURSE

1. TYPE OF ACTION
   A. Addition  [X] Regular  [ ] Experimental  [ ] Other  
   B. Deletion  [ ] in credits  [ ] in title  [ ] in number or alpha  [ ] in prerequisites  [ ] Other  
   C. Modification  [ ] in credits  [ ] in title  [ ] in number or alpha  [ ] in prerequisites  [ ] Other  

2. NEW ALPHA, NUMBER AND TITLE  AG 120 - Plant Science  3. CREDITS  3  

4. OLD ALPHA, NUMBER AND TITLE  5. CREDITS  

6. NEW CATALOG DESCRIPTION  
   The study of plant morphology, anatomy, physiology, classification, growth, growth regulators, and propagation. Students are required to write a 10-15 page research report.  

7. PREREQUISITES  None  

8. STUDENT CONTACT HOURS PER WEEK  
   Lecture 2  Lecture/Lab 2  Lab  
   Other (specify)  

9. PROPOSED DATE OF FIRST OFFERING  Fall 1999  

10. THIS COURSE  [ ] IS REQUIRED  [ ] IS AN ELECTIVE FOR THE WCC PROGRAM/CORE  
    & [X] CAN FULFILL AG 20, AA Degree, CTAHR elective REQUIREMENT  
    (Please specify)  (Circle approp.)  

11. THIS COURSE  [ ] INCREASES  [ ] DECREASES  [X] MAKES NO CHANGE IN NUMBER OF CREDITS REQUIRED FOR THE PROGRAM/CORE  

12. SIMILAR COURSES OFFERED ELSE WHERE:  
   College(s):  
   Alpha, Number, Title:  

13. THIS COURSE IS  
   [ ] ALREADY ARTICULATED  [X] APPROPRIATE FOR ARTICULATION  
   with  
   [ ] NOT YET APPROPRIATE FOR ARTICULATION  
   with CTAHR, UHM  
   (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:  
   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.  

REQUESTED BY:  

APPROVED BY:  

CCCMM #6100  
(Amended for WCC use Sept. 1991)
<table>
<thead>
<tr>
<th></th>
<th>Signatures</th>
<th>Dates</th>
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<tbody>
<tr>
<td><strong>1. Subject Area</strong> (one or more instructors in the area)</td>
<td>Joseph C. Cotti</td>
<td>9/18/98</td>
</tr>
<tr>
<td></td>
<td>Michael C. Lane</td>
<td>9/18/98</td>
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<td>9/18/98</td>
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<td><strong>2. Department</strong></td>
<td>Joe Lee D. Smith</td>
<td>9/18/98</td>
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<tr>
<td></td>
<td>Department Chairperson</td>
<td></td>
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<td>9/18/98</td>
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<td>9/18/98</td>
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<td><strong>3. Division</strong></td>
<td>Carol J. Fox</td>
<td>10/7/98</td>
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<tr>
<td></td>
<td>Assistant Dean of Instruction</td>
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<td><strong>4. Curriculum Committee Review</strong></td>
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<tr>
<td>Approved</td>
<td>X</td>
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<tr>
<td>Disapproved</td>
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<td>Reason:</td>
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<tr>
<td></td>
<td>David B. Jones</td>
<td>11/10/98</td>
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<tr>
<td></td>
<td>Curriculum Committee Chairperson</td>
<td></td>
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WOC FORM FOR NEW COURSE PROPOSALS

Course: AG 120  Submitted by: David Ringuette  Date: 9/30/98

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?

   None

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? No

   If yes, provide rationale and details of its impact on the College
   curriculum.

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 this course is numbered 100 or above or appropriate for transfer to a
   4-year college, complete and attach WOC Form for Transfer Courses (blue).
   (See attached criteria for transfer courses.)

WOC 9/91
ARTICULATION

This course will only be articulated with the College of Tropical Agriculture and Human Resources at the University of Hawaii at Manoa. The course will transfer as elective credits for students in CTAHR (please read the enclosed letter from CTAHR). This course will not be in the transfer handbook and it does not meet general education core requirements.
August 19, 1998

Mr. David Ringuette
Windward Community College
45-720 Keaahala Road
Kaneohe, HI 96744

Dear Dave:

The Horticulture Curriculum Committee discussed your request to evaluate the course syllabus for AG 20 (formerly AG 43), AG 80, and AG 82 and came up with recommendations to bring them up to the 100 level. The Committee felt that the courses are quite good. To strengthen them, the Committee recommended that students write a term paper in each course which would be sufficient to justify the 100 level.

The Curriculum Committee commends Windward Community College for its high quality agricultural program.

Sincerely yours,

Kent D. Kobayashi, Chair
Horticulture Curriculum Committee
RESEARCH REPORT

A requirement of this course is to write a 10-15 page research report. The minimum length of the report will be 10 pages and the maximum length will be 15 pages. The number of pages counted for this report will only be prose, i.e. title page, reference page, etc. will not count in the total. All reports will be type written with a maximum 14 point letter size and double spaced. The report shall be footnoted and have a bibliography. You are required to use a minimum of six references, one reference must come from each of the following sources: a journal/periodical, Internet, book, and personal interview. The topic of this report must be addressed in this course and approved by the instructor. You will also give a 5-10 minute oral presentation of your report at the end of the course to the class.
WINDWARD COMMUNITY COLLEGE

OUTLINE OF COURSE OBJECTIVES

COURSE NAME: Plant Science
COURSE ALPHA: AG 120
CREDIT HOURS: 3

CATALOG DESCRIPTION: The study of plant science, morphology, anatomy, physiology, classification, growth, growth regulators, and propagation. Students are required to write a 10-15 page research report.

REQUIREMENTS COURSE SATISFIES:
At WCC: Meets Certificate of Completion in Plant Landscaping and A.A. elective
At UHM: UHM CTAHR elective

PREREQUISITES: None

RECOMMENDED PREPARATION: 12th grade reading level and basic math

RECOMMENDED ATTIRE/TOOLS:
Covered shoes should be worn during all field and laboratory work. Wear work clothes, as this is a hands-on activity. I encourage people to bring their own hand pruners and knives.

INSTRUCTOR: David Ringuette
OFFICE: Uluwehi (Greenhouse)
OFFICE PHONE: 235-7496 or 235-0077 X 496
EFFECTIVE DATE: Fall 1999
PLANT SCIENCE

A. Course description

The study of plant morphology, anatomy, physiology, classification, growth, and growth regulators, and propagation.

B. Topics to be covered

1. Plant parts: structure and function
2. Photosynthesis
3. Respiration
4. Water absorption, translocation, and transpiration
5. Sexual plant propagation
6. Asexual plant propagation
7. Plant growth regulators
8. Additional topics at option of instructor

C. Upon completion of this course, the student should be able to:

1. Describe and discuss general plant structure and major functions.
2. Describe and discuss plant growth sequences and cultural requirements.
3. Describe and discuss major internal and external regulatory mechanisms for plant growth.
4. Describe and discuss the basic tenets of plant cultural practices.
5. Describe and discuss common horticultural terminology, especially in relation to plant growth and culture.
6. Reproduce plants using either an asexual or a sexual method of propagation.
7. Utilize the knowledge gained in the classroom in practical application.

D. Prerequisites: None

METHOD OF EVALUATION:

<table>
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<tr>
<th>Examination</th>
<th>60%</th>
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<tr>
<td>Projects</td>
<td>30%*</td>
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<tr>
<td>Participation</td>
<td>10%</td>
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*A 10-15 page research report must be completed and turned in one week before the end of the semester. A report grade of 70 or less will result in failure of the course regardless of other grades.

GRADES: A = 90% or greater
B = 80-89%
C = 70-79%
D = 60-69%
F = Less than 60%

Please refer to the WCC College Catalog for audit, withdrawal, 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 1 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.