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
   - BIO 124 Environment & Ecology

3. CREDITS 3

4. OLD ALPHA, NUMBER AND TITLE
   - SCI 124 Man, Technology & Environment

5. CREDITS 4

6. NEW CATALOG DESCRIPTION (If necessary, continue on another page)
   - No change (dele the word laboratory)

7. PREREQUISITES, COREQUISITES, OR RECOMMENDED PREPARATION
   - No Change

8. STUDENT CONTACT HRS. PER WEEK
   - Lecture: 3 Lecture/Lab __ Lab __
   - Other (specify)

9. PROPOSED DATE OF FIRST OFFERING
   - Fall '04

10. THIS COURSE □ IS PROPOSED FOR THE ________________ PROGRAM
    - □ CAN FULFILL AA degree at WCC, Group 1
    - □ UHM II DB

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>
</tr>
</thead>
<tbody>
<tr>
<td>UHM</td>
<td>Bio 124 Environment &amp; Ecology</td>
</tr>
</tbody>
</table>

13. THIS COURSE IS
   - □ ALREADY ARTICULATED □ APPROPRIATE FOR ARTICULATION □ NOT YET APPROPRIATE FOR ARTICULATION
   - with 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 align with UHM

REQUESTED BY: David Burgutte 2/23/04

APPROVED BY: Jean Hikusha 3/10/04
   - Curriculum Committee Date 6/15/04
   - Faculty Senate Date 6/15/04
   - Dean of Instruction Date 5/7/04
   - Provost Date

Change recorded by Catalog Preparer Date

CCCM #6100 (Amended for WCC use March 2000)
Course Alpha Number and Title: Bio 124 Environment & Ecology

<table>
<thead>
<tr>
<th>Signatures</th>
<th>Dates</th>
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</thead>
<tbody>
<tr>
<td>Department Area (more than one instructor in the department)</td>
<td>2/24/04</td>
</tr>
<tr>
<td></td>
<td>2/24/04</td>
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</table>

2. Department

David Ramsey
Department Chairperson

This course was reviewed and approved in a department meeting on ________________________________

3. Division

Mike Mulliken
Assistant Dean of Instruction

4. Curriculum Committee Review

Approved 7
Disapproved 0

Reason:

Dean Shibuya
Curriculum Committee Chairperson

3/10/04

(Revised March 2000)
WOC FORM FOR TRANSFER COURSES

(To be completed for articulation with any 4-year UH campus)

Course Bio1 24 Submitted by Ringuette Date 2/23/04

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

   Bio1 24 Environment & Ecology

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

   UHM

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.

WOC 9/91
WCC FORM FOR COURSE MODIFICATIONS

Course: Biol 124
Submitted by: [Signature]
Date: 2/23/04

1. What change is proposed in the course? Provide specific information comparing both the "new" and "old" course.

Title, Alpha, credit number

2. What is the rationale for the change?

Be consistent with UHM

3. Is the change substantive enough to require a change in course identification? If so, explain thoroughly.

ND

4. Is the course articulated with any 4-year program? Yes
   If yes, give details of the agreement(s) and explain any impact the proposed modifications may have on articulation.

UHM - 20 years ago

5. Provide details of any additional staff, equipment, facilities, library/media material, faculty preparation and other financial considerations that would be required to implement this course modification. What has been done to provide for these additional costs? Who will teach the course? Is additional preparation needed?

None rotating faculty

6. Will this course modification result in any alterations in the number of hours required to attain a certificate or degree? N/D
   If yes, provide details and justification for these alterations.

7. If the course is renumbered to 100 or above, does it meet the criteria for transfer level courses? (See attached criteria for transfer courses.)
ARTICULATED COURSE
CHANGE IN ALPHA / NUMBER / TITLE

OLD COURSE

Course (alpha & number): SCI 124
Title Man, Technology and Environment

REVISED COURSE

Course (alpha & number): BIOL 124
Title Environment and Ecology

Semester and Year when the revised course was/will be first offered: 1980 - Fall

Reason for the change in Alpha and/or Number: Be consistent with UH M

Note: A current outline of the renumbered course must be submitted with this form. Undated outlines are not acceptable.

I certify that this course has had its alpha, number and/or title changed, but that it is substantially the same course as the course that was reviewed and approved for articulation.

Campus ____________________________
Certifying authority __________________ Signature and Title ______________ Date

SUBMIT TO: UCA Clearinghouse, Attn: John Muth
Chancellor's Office for CC, 2327 Dole Street.
12/14/94
<table>
<thead>
<tr>
<th>COURSE NAME</th>
<th>ECOLOGY AND ENVIRONMENT</th>
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<tbody>
<tr>
<td>COURSE NUMBER</td>
<td>BIOL 124</td>
</tr>
<tr>
<td>CREDIT HOURS</td>
<td>3</td>
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</tbody>
</table>
Catalog Description
A study of human ecology through the analysis of the interrelationships between science and technology, the means these provide for manipulation of the environment and the effects of this manipulation on the environment and human populations.

Introduction
Biology 124 is an introduction to environmental science course designed for non-science majors seeking to more fully understand the interrelationships between humans and the environment. Throughout this course we will be examining the role of humans in nature and to evaluate the impact we have on the environment.

Course Objectives

Understand the interrelationships between land, sea, people and atmosphere of the earth

Describe the major ecosystems of the earth

Understand scientific concepts and how population growth and environmental concerns are affected

Understand species interaction

Identify major environmental concerns

Discuss the limitations of the technological fix

Evaluate controversial environmental issues and discuss some solutions

Student Tasks

Attend and participate in class

Take all exams and quizzes. Any exam or quiz missed will receive a zero unless the instructor is notified prior to the exam and a substantiated reason is given.

Prepare and deliver orally a research project. Details of which will be given at a later date

Write two one-page reaction papers
Method of grading

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
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<tbody>
<tr>
<td>Two exams</td>
<td>400</td>
</tr>
<tr>
<td>Five Quizzes</td>
<td>200</td>
</tr>
<tr>
<td>Reaction Papers</td>
<td>40</td>
</tr>
<tr>
<td>Project (written)</td>
<td>200</td>
</tr>
<tr>
<td>Project (oral)</td>
<td>100</td>
</tr>
<tr>
<td>Participation</td>
<td>60</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>1000</strong></td>
</tr>
</tbody>
</table>

The project will be due at the beginning of the last week of instruction

Additional Information

The student is responsible for being fully informed of all course requirements, assignments, due dates, and announced changes, regardless of presence or absence at a particular session.

Enjoy the class!
Research Project Guidelines

1. Select a topic of environmental concern (hopefully to you).

2. You will become an expert on this topic. Therefore make certain the topic is broad enough yet narrow enough to cover 12-15 typed pages. You are to use one inch margins, 12 point type, double spacing. Graphs, pictures, etc. are encouraged but will NOT count toward the number of pages. Parenthetical footnotes are also required.

3. You will need a minimum of four different references; internet, journal, text/book, and a personal interview.

4. You are not required to perform experiments. Gathering and synthesizing information is your primary objective. Most often there are two or more points of view to an issue. Research and discuss all the major points of view to an issue and then formulate a conclusion based on your findings (not your emotions).

5. Points to cover in your project are: the science of the issue (physical and/or biological). what role(s) do humans play, history of the issue, future predictions, impacts of the issue (economic, political, religious, cultural, etc.), what information/ science is missing in order to make a conscientious decision.
Reaction Papers

**Paper One**

Length: One type written 8½"x11", double spaced page

1. Read an article about an environmental concern.

2. Summarize the article

3. React to it. Is it biased? What are the scientific principles involved? Do you agree or disagree with the author? Why?


**Paper Two**

Length: One typewritten 8½"x11", double spaced page

1. Attend an environmental meeting in your community.
   a. Save Our Beaches
   b. Neighborhood Board Meeting
   c. Sierra Club
   d. Kaneohe Bay Task Force
   e. Others

2. Report: What was the Environmental Issue? Were there missing facts? Opinions? Was the topic treated fairly? How did you feel when the meeting was over, and why?

3. Due: April 5, 2001