MAJOR EQUIVALENT IN ENVIRONMENTAL STUDIES
B.A. DEGREE IN INTERDISCIPLINARY STUDIES
(In Cooperation with the Environmental Center)

(Guidelines for Completing Proposals)

Undergraduates of the University of Hawaii at Manoa who are interested in achieving a Bachelor of Arts (B.A.) degree in Interdisciplinary Studies with a major equivalent in Environmental Studies should proceed as follows:

1. **Orientation**: Arrange for an orientation at the Interdisciplinary Studies Program office (Krauss Hall, Room 116, Ph. 808-956-7297). They will clarify program requirements for Interdisciplinary Studies/Environmental Studies.

2. **Course List**: Make a list of the courses that you have completed.

3. **Outline**: Briefly outline your general interests in the environmental field. This may include coursework taken, work experience or simply interest in environmentally related topics such as environmental law, planning, forestry management, education or resource conservation.

4. **Advisor**: Meet with the Environmental Studies Advisor to discuss the general focus of your degree proposal and the courses you wish to take for your Environmental Studies Major Equivalent. Bring your transcripts or course list and outline with you to this meeting.

5. **Draft Proposal**: Prepare a rough draft of the Environmental Studies Major Equivalent proposal. The first page of the proposal is a brief narrative describing your major. It should follow the form prescribed by the Interdisciplinary Studies Program. The second page of the proposal lists all the courses you have taken or will take for the major equivalent. Typically, the preparation of your proposal will involve two or more meetings with your advisors: a) when you submit your rough draft and b) subsequent corrections and adjustments as recommended.

6. **Core Requirements and Prerequisites**: a) Interdisciplinary Studies/Environmental Studies students must meet the General Education Core Requirements (see UHM General Catalog). b) Substitutions may be allowed for some prerequisites. Please check with the EVS Advisor.

7. **Final Proposal**: Prepare the typed, final version of the proposal. Have the final proposal signed by the Environmental Studies and Interdisciplinary Studies Advisors. Make three copies of your final signed proposal and submit them for final review to Interdisciplinary Studies.

8. **IMPORTANT DEADLINES**:

   - Your proposal **must be accepted before you start classes for your final 21 credits of course work in your major**. Most students avoid any problems with this rule by completing proposals and declaring their majors during their sophomore or junior years. We recommend that juniors attend a Junior Matriculation Planning (JUMP) session at the Colleges of Arts & Sciences, Student Academic Services (Hawaii Hall 108, 956-8755). Please provide a copy of your JUMP session to the EVS Advisor.

   - Sixty (60) non-introductory credits (300 level or above) are required to graduate.

   - You may substitute courses in your major concentration due to schedule conflicts or course cancellations. **Course substitutions must be approved in advance and before classes begin** by the Environmental Studies and Interdisciplinary Studies Advisors. Course Change Forms are available at the Environmental Studies and Interdisciplinary Studies offices.
REQUIRED COURSES FOR EVS MAJORS

**Introductory Courses:**
Four introductory courses are required. They can be applied toward electives or general education requirements.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biol 101 &amp; Lab</td>
<td>Biology &amp; Society</td>
<td>4</td>
</tr>
<tr>
<td>or Biol 171 &amp; Lab*</td>
<td>Introductory Biology (Pre: Chem 151 or 161 or concurrent or consent)</td>
<td>4</td>
</tr>
<tr>
<td>Biol 124 &amp; Lab</td>
<td>Environment &amp; Ecology</td>
<td>4</td>
</tr>
<tr>
<td>Chem 151 &amp; Lab</td>
<td>Elementary Survey of Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>or Chem 161 &amp; Lab*</td>
<td>General Chemistry (Pre: 2 yrs high school algebra &amp; chemistry, and placement exam)</td>
<td>4</td>
</tr>
<tr>
<td>or Chem 171 &amp; Lab</td>
<td>Principles of Chemistry (Pre: high sch chem, Math 215 or Math 241 or Math 251)</td>
<td>5</td>
</tr>
<tr>
<td>Econ 120</td>
<td>Introduction to Economics</td>
<td>3</td>
</tr>
<tr>
<td>or Econ 130*</td>
<td>Principles of Economics</td>
<td>3</td>
</tr>
</tbody>
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**Major Courses:**
A minimum of 36 credits are required in the Environmental Studies Major. Five non-introductory courses are required. List these courses on page 2 of your proposal. If Zoology 200 is selected, it should be listed under "Other Special Course Requirements" and not counted in the minimum 36 credits.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biol 310</td>
<td>Environmental Issues (Pre: one of Biol 101, 123, or Geog 101; or consent)</td>
<td>3</td>
</tr>
<tr>
<td>or Ocn/OEST/Met 310</td>
<td>Global Environmental Change (Pre: one environmentally oriented science course)</td>
<td>3</td>
</tr>
<tr>
<td>Bot 351 &amp; Lab *</td>
<td>Inside Tropical Ecosystems (Pre: Geog 101, or Biol 171 and Biol 172; or consent)</td>
<td>4</td>
</tr>
<tr>
<td>or Bot 454</td>
<td>Vegetation Ecology (Pre: one of Bot 101, Biol 172, or Zool 101)</td>
<td>4</td>
</tr>
<tr>
<td>or Zool 200 &amp; Lab</td>
<td>Marine Biology (introductory course)</td>
<td>3</td>
</tr>
<tr>
<td>Geog 301</td>
<td>Atmospheric Pollution (Pre: Geog 101, Met 101, or Chem 151)</td>
<td>3</td>
</tr>
<tr>
<td>IS 489</td>
<td>Environmental Practicum (Pre: senior standing or consent)</td>
<td>3</td>
</tr>
<tr>
<td>Ocn 320</td>
<td>Aquatic Pollution (Pre: Ocn 201 or consent))</td>
<td>3</td>
</tr>
</tbody>
</table>

*Recommended
SAMPLE
ENVIRONMENTAL STUDIES PROPOSAL
FOR INTERDISCIPLINARY STUDIES

Graduation Date (est.):
B.A. Fall 2003

Proposed B.A. in Interdisciplinary Studies

Name
Address
City, State, Zip
Home Phone # (H)
Work Phone # (W)
Social Security No.
E-mail Address

(The Title can be just "Environmental Studies" or include some special area of emphasis within Environmental Studies.)

Title: Environmental Studies: Natural Resource Management

(First Paragraph: Background information on the subject and your interest in it.)
As the world's populations grow the need and use of natural resources becomes ever more important and intense. The results of this use are manifest in diminishing resources and increased generation of waste products. From the rainforest destruction in South America to toxins released into the air by industrialized countries and the jungle of concrete here on Oahu, we are negatively affecting our earth's natural environment. To address these problems, I wish to focus my studies on those academic areas that will lead to a better understanding and management of our natural resources.

(Second Paragraph: Explanation of the subject as you wish to pursue it. Don't name departments here.)
I am interested in learning how to use the world's natural resources, including both terrestrial and marine, in a manner that will provide for a cleaner, and healthier environment. I want to gain a solid understanding of how plants, animals and people interact together within their interwoven physical and natural environments, be they on land, water, or in the sea. I am especially interested in studying ways to minimize both human and ecological problems associated with resource use on the local as well as global scale. Since my interests emphasize resource management, I also want to gain an understanding of the ecological factors that affect endangered species and the survival of wildlife.

(Third Paragraph: Future Plans)
Upon completing my degree program, I intend to seek employment with a private or government agency with environmental responsibilities. After gaining experience in the field, I intend to pursue graduate studies in the area of natural resource management.
SAMPLE AGREEMENT WITH INTERDISCIPLINARY STUDIES

Major Equivalent:
(The Interdisciplinary Studies Program will closely monitor the courses listed on this page. All courses must fit into the framework established in the second paragraph of your narrative. Courses must be from at least three different departments. Courses must be non-introductory (usually 300-400 level). Grades must be a C or better or the course must be repeated or another course added to the major. A 2.5 GPA in your Major Equivalent courses is required. Underline those courses not yet taken. Indicate courses required for Environmental Studies majors with a (+). The following are examples of courses:

- Biology 310 (+) Environmental Issues 3
- Biology 410 Human Role in Environmental Change 3
- Biology 425 Wildlife & Plant Conservation 3
- Botany 350 Resource Management & Conservation in Hawaii 3
- Botany 351, 351L (+) Inside Tropical Ecosystems 4
- Botany 450 WI/Natural History of Hawaiian Islands 3
- Geography 301 (+) Atmospheric Pollution 3
- Geography 455 Resource Management 3
- Geography 472 Field Mapping 3
- Interdisciplinary Studies 489 (+) WI/Environmental Practicum 3
- Oceanography 320 (+) Aquatic Pollution 3
- Oceanography 331 Living Resources of the Sea 3

Total Major Equivalent  (Must total no less than 36 credits) 37

Other Special Course Requirements to Satisfy the Interdisciplinary Studies Degree:
(If your advisor wants you to take special courses which don't fit in the major equivalent, the courses can be listed here, e.g., if you need to acquire or improve a basic skill. Zoology 200 is in addition to the credits listed above.)

____________  ________________________________________

In signing this agreement, I acknowledge that it is my responsibility to check with Arts and Sciences about meeting my requirements for graduation. This includes the JUMP Session (add the date attended) and the graduation check. (Sign in the order shown below.)

Type your name here Date

John T. Harrison, Environmental Studies Advisor Date

P. Manicas, E. Drechsel, J. Odin, or K. Takara, Interdisciplinary Studies Advisor Date
TOTAL MAJOR EQUIVALENT AND SPECIAL REQUIREMENTS CREDITS 37

General Education Core Requirements:
A. Basic Requirements
   English 100* 3
   History 151*, 152* 6
   Math 100* 3
   Foreign Language: Spanish 101, 102, 201, 202 12

B. Humanities
   Art 101* 3
   English 250 WI 3
   Phil 100 WI 3

C. Natural Sciences
   Biology 124 (+), 124L (+) 4
   Chemistry 161 (+), 161L (+) (Pre. for Biol 171) 4
   Geography 101 (Pre. for Biol 310, Biol 410, Geog 301, Geog 455) 3

D. Social Sciences
   Anthropology 200* 3
   Economics 130 (+) 3
   Sociology 2100** (Sociology 100) 3

Total Core Credits 53

Electives and Prerequisites (Pre.) for Major Courses:
Biology 171 (+), 171L (+) (Pre. for Biol 172, 265, 425) 4
Biology 172, 172L WI (Pre. for Biol 265, Biol 425, Bot 455) 4
Biology 265/265L (Pre. for Biol 425) 4
Geography 326 3
Geography 375 (Pre. for Geog 472) 3
Planning 399 3
Oceanography 201 (Pre. for Ocn 320) 3
Social Science 225 (Pre. for Geog 455) 3
Additional non-introductory courses 14

Total Electives Credits 41

TOTAL CREDITS (Major Equivalent, Core, Electives) 131
Total credits must be no less than 124 credits of which 104 credits must be in Arts & Sciences and 60 credits in non-introductory courses.

Writing Intensive Courses (WI): (number required depends on time of initial entry to UHM)
3 Lower Division: Biol 172, Eng 250, Phil 100
2 Upper Division: Bot 425, IS 489

* Taken at the University of Hawaii at Hilo and accepted for UHM transfer credit
** Taken at the University of Colorado and accepted for UHM transfer credit
(+) Required courses
___ Underline courses yet to be taken