MEMORANDUM

TO: Cheng-i Wei
    Dean, College of Agriculture and Natural Resources

    Edward Montgomery
    Dean, College of Behavioral and Social Sciences

FROM: Phyllis Pere
    Associate Provost for Academic Planning and Programs

SUBJECT: Proposal to modify concentrations in the Environmental Studies and Policy major
         (PCC log nos. 05027-05030)

On May 1, 2006, Chancellor Kirwan approved the proposals to discontinue two areas of
concentration in the Environmental Studies and Policy major and replace them with two new
areas. This approval was acknowledged by the Maryland Higher Education Commission on June
27, 2006. Copies of the approved proposals are enclosed. Specifically, the approved changes:

- Eliminate the concentration in Wildlife Resources and Conservation and replace it
  with a concentration in Wildlife Ecology and Management; and
- Eliminate the concentration Environmental Mapping and Data Management and
  replace it with a concentration in Global Environmental Change.

The changes are effective in Fall 2006. The Colleges should ensure that the new
requirements are fully described in the Undergraduate Catalog and in all relevant descriptive
materials, and that all advisors are informed.

/cwr
Enclosure

cc: Sarah Bauder, Student Financial Aid
    Mary Giles, University Senate
    Barbara Hope, Data Administration
    Anne Turkos, Archives
    Linda Yokoi, Office of the Registrar
    Kathy McAdams, Undergraduate Studies
    Bruce James, Environmental Science and Policy
    Wendy Whittemore, Environmental Science and Policy
Dr. Phyllis A. Peres  
Associate Provost for Academic Planning & Programs  
University of Maryland, College Park  
1119 Main Administration Building  
College Park, Maryland 20742-5031

Dear Dr. Peres:

The Maryland Higher Education Commission has reviewed a request from the University of Maryland, College Park to offer two new Areas of Concentration (AOC) within the existing Bachelor of Science degree program in Environmental Science and Policy. Each AOC will replace an AOC that the University will be discontinuing. The AOC in Wildlife Ecology and Management will replace the AOC in Wildlife Resources and Conservation. The new AOC in Global Environmental Change will replace the AOC in Environmental Mapping and Data Management.

I am pleased to inform you that the new Areas of Concentration have been administratively approved. This decision was based on an analysis of the programs in conjunction with the Maryland Higher Education Commission's Policies and Procedures for Academic Program Proposals and the Maryland State Plan for Postsecondary Education. The programs demonstrate potential for success, an essential factor in making this decision.

For purposes of providing enrollment and degree data to the Commission, please use the academic program inventory codes of the Bachelor of Science in Environmental Science and Policy:

<table>
<thead>
<tr>
<th>New Area of Concentration</th>
<th>Degree Level</th>
<th>HEGIS</th>
<th>CIP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wildlife Ecology and Management</td>
<td>BS</td>
<td>0420-00</td>
<td>26.1301</td>
</tr>
<tr>
<td>Global Environmental Change</td>
<td>BS</td>
<td>0420-00</td>
<td>26.1301</td>
</tr>
</tbody>
</table>

I also acknowledge your request to remove the two AOCs that are being discontinued:

<table>
<thead>
<tr>
<th>Area of Concentration to be Removed</th>
<th>Degree Level</th>
<th>HEGIS</th>
<th>CIP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wildlife Resources and Conservation</td>
<td>BS</td>
<td>0420-00</td>
<td>26.1301</td>
</tr>
<tr>
<td>Environmental Mapping and Data Management</td>
<td>BS</td>
<td>0420-00</td>
<td>26.1301</td>
</tr>
</tbody>
</table>

Should the programs require any substantial changes in the future, please keep the Commission apprised. I wish you continued success.

Sincerely,

Calvin W. Burnett  
Secretary of Higher Education

CWB:JHH:bg

cc: Ms. Diane Hampton, MICUA  
Ms. Theresa Hollander, USM
May 1, 2006

Dr. C. D. Mote, Jr.
President
University of Maryland, College Park
Main Administration Building
College Park, MD 20742

Dear Dan:

In response to your letter requesting changes in program concentrations, I am pleased to approve the elimination of the concentration in Wildlife Resources and Conservation to be replaced with a concentration in Wildlife Ecology and Management. Likewise, I am pleased to approve the elimination of the concentration in Environmental Mapping and Data Management to be replaced with a concentration in Global Environmental. As you recommended, both changes are designed to keep the Environmental Science and Policy major contemporary.

I will inform the Board and MHEC of these changes in both concentrations.

Sincerely yours,

William E. Kirwan
Chancellor

cc: Calvin Burnett, Secretary of Higher Education
Irwin Goldstein, USM Vice Chancellor of Academic Affairs
William Destler, Senior Vice President for Academic Affairs & Provost
Cheng-I Wei, Dean, College of Agricultural and Natural Resources
Edward Montgomery, Dean, College of Behavior and Social Sciences
Adele Berlin, Chair, University Senate
Theresa Hollander, Associate Vice Chancellor for Academic Affairs
THE UNIVERSITY OF MARYLAND, COLLEGE PARK
PROGRAM/CURRICULUM PROPOSAL

DIRECTIONS:
- Provide one form with original approval signatures in lines 1 - 4 for each proposed action. Keep this form to one page in length.
- Early consultation with the Office of the Associate Provost for Academic Planning & Programs is strongly recommended if there are questions or concerns, particularly with new programs.
- Please submit the signed form to Claudia Rector, Office of the Associate Provost for Academic Planning and Programs, 1119 Main Administration Building, Campus.
- Please email the rest of the proposal as an MSWord attachment to pcc-submissions@umd.edu.

DATE SUBMITTED

PCC LOG NO. 05027

COLLEGE/SCHOOL AGNR

DEPARTMENT/PROGRAM ENSP

PROPOSED ACTION (A separate form for each) ADD ___ DELETE X ___ CHANGE ___

DESCRIPTION (Provide a succinct account of the proposed action. Details should be provided in an attachment. Provide old and new sample programs for curriculum changes.)

This program, based heavily in the Animal Sciences, will be eliminated so that it may be replaced by a new concentration.

JUSTIFICATION/REASONS/RESOURCES (Briefly explain the reason for the proposed action. Identify the source of new resources that may be required. Details should be provided in an attachment.)

The curriculum for Wildlife Resources and Conservation is based largely in the Animal Sciences (domestic animals, their physiology, nutrition, and diseases); as a result, students have been unhappy with the coursework and have had to rely on their internships to gain an appropriate background in wildlife management.

APPROVAL SIGNATURES

1. Department Committee Chair

   Bruce R. James

   11-10-05

2. Department Chair

   Bruce R. James (ENSP)

   11-10-05

3. College/School PCC Chair

   12-20-05

4. Dean

   12-20-05

5. Dean of the Graduate School (if required)

6. Chair, Senate PCC

   2-17-06

7. Chair of Senate

   3-13-06

8. Vice President for Academic Affairs & Provost

   8-7-06

VPAAP 8-05
Grading Policy. Beginning in spring semester 2002, students entering the Environmental Science and Policy Program are required to earn grades of C or higher in all courses taken within the ENSP core, and in all required courses and restricted electives of the selected area of concentration.

Required courses from the ENSP Core for this concentration:
- BSCI 106 (Biology group)

Required courses for this concentration:

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Cr</th>
<th>Semester Offered</th>
<th>Prerequisites</th>
<th>Grade</th>
<th>When Completed</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENSP 386</td>
<td>Internship</td>
<td>3-6</td>
<td>Sp, Su, F</td>
<td>Internship proposal approved</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS 121</td>
<td>Fundamentals of Physics</td>
<td>4</td>
<td>Sp, Su, F</td>
<td>Course work in trigonometry or MATH 115</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BSCI 105</td>
<td>Principles of Biology I</td>
<td>4</td>
<td>Sp, Su, F</td>
<td>Placement in MATH 110 or higher</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 131/132</td>
<td>General Chemistry I</td>
<td>4</td>
<td>Sp, Su, F</td>
<td>Placement in MATH 110 or higher</td>
<td></td>
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<td></td>
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</tbody>
</table>

Select one:
- CHEM 104 Fundamentals of Organic & Biochemistry
- CHEM 231/232 Organic Chemistry I

BSCI 222 Principles of Genetics
BSCI 224 Animal Diversity
ANSC 101 Principles of Animal Science
ANSC 212 Applied Animal Physiology

Restricted Electives: Choose 3 courses from Group I and 2 courses from Group II

Group I: choose 3 courses from this group (Cellular Processes and Physiology)

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Cr</th>
<th>Semester Offered</th>
<th>Prerequisites</th>
<th>Grade</th>
<th>When Completed</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANSC 412</td>
<td>Introduction to Diseases of Animals</td>
<td>3</td>
<td>Sp</td>
<td>BSCI 105 and 223</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ANSC 413</td>
<td>Laboratory Animal Management</td>
<td>3</td>
<td>F</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ANSC 415 *</td>
<td>Parasitic Diseases of Domestic Animals</td>
<td>3</td>
<td></td>
<td>ANSC 412 or equivalent</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BSCI 422</td>
<td>Principles of Immunology</td>
<td>3</td>
<td>Sp, Su, F</td>
<td>BSCI 222 and 223. Recommended BSCI 230</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ANSC 314**</td>
<td>Comparative Animal Nutrition</td>
<td>3</td>
<td>F</td>
<td>ANSC 101 and CHEM 104 or 231/232</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ANSC 446</td>
<td>Physiol of Mammalian Reproduction</td>
<td>3</td>
<td>F</td>
<td>BSCI 440 or ANSC 212</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ANSC 452 *</td>
<td>Avian Physiology</td>
<td>3</td>
<td></td>
<td>A basic course in animal anatomy and/or physiology. ANSC 212 recommended.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* The indicated semester in which each course is offered is based on the Academic Year 2000-2001. Check the current Schedule of Classes to verify semester.

* Check with advisor on availability.

**Pre requisite for ANSC 315. ANSC 315 is recommended as a free elective for students who wish to take a full year of animal nutrition.
<table>
<thead>
<tr>
<th>Group II: Choose 2 courses from this group (Behavior and Management)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ANSC 350 Ornithology</td>
<td>4</td>
</tr>
<tr>
<td>ANSC 455 Applied Animal Behavior</td>
<td>3</td>
</tr>
<tr>
<td>NRMT 314* Biology and Management of Finfish</td>
<td>4</td>
</tr>
<tr>
<td>NRMT 460 Principles of Wildlife Management</td>
<td>3</td>
</tr>
<tr>
<td>NRMT 461 Urban Wildlife Management</td>
<td>3</td>
</tr>
<tr>
<td>NRMT 479 Tropical Ecology and Resource Mgmt</td>
<td>2</td>
</tr>
<tr>
<td>BSCI 360 Principles of Animal Behavior</td>
<td>3</td>
</tr>
<tr>
<td>BSCI 465* Behavioral Ecology</td>
<td>3</td>
</tr>
<tr>
<td>ANSC 453 Animal Welfare</td>
<td>3</td>
</tr>
</tbody>
</table>

* Check with advisor on availability.

Advisor notes, Approved course substitutions, etc.