MEMORANDUM

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

FROM: Phyllis Peres
   Associate Provost for Academic Planning and Programs

SUBJECT: Proposal to modify the curriculum in the ENSP major core
         (PCC log no. 05031)

At its meeting on February 17, the Senate Committee on Programs, Curricula, and Courses approved your proposal to modify the curriculum of the Environmental Science and Policy major core. A copy of the approved proposal is enclosed.

The changes are effective in Fall 2006. The College 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: James Baeder, Chair, Senate PCC
    Sarah Bauder, Student Financial Aid
    Mary Giles, University Senate
    Barbara Hope, Data Administration
    Anne Turkos, Archives
    Linda Yokoi, Records & Registrations
    Kathy McAdams, Undergraduate Studies
    Bruce James, Environmental Science and Policy
    Wendy Whittemore, Environmental Science and Policy
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. 05031

COLLEGE/SCHOOL__AGNR-BSOS-CLFS-CMPS__

DEPARTMENT/PROGRAM__ENSP__

PROPOSED ACTION (A separate form for each) ADD_____ DELETE_____ CHANGE____X____

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 proposal to change the ENSP Core will provide more appropriate course selections in Geography; and will bring uniformity to the Earth Sciences requirements.

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.)

Please see details and justifications attached.

APPROVAL SIGNATURES

1. Department Committee Chair ____________________________________________________________________________________________ 11-10-05

2. Department Chair ________________________________________________________________________________________________ 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 ____________________________________________________________________________________________________

8. Vice President for Academic Affairs & Provost ________________________________________________________________________ 2/10/06

VPAAP 8-05
Proposed Changes to ENSP Core:

In the Statistics category:

- **ADD** GEOG 306 Introduction to Quantitative Methods (3 credits).

  **Rationale and implications:** This newly developed course will parallel other statistics courses in terms of rigor. Geography has requested this addition; and we do not expect that the number of ENSP students selecting the Global Environmental Change concentration will unduly affect access to this course by other Geography majors. It will be an additional option for students in the other Geography-based concentrations.

In the “5 of 6” requirements:

- **In the Earth Sciences Category:** **ADD** METO 201 Laboratory in Weather and Climate (1 credit) to accompany the METO 200 Weather and Climate (3 credits) already present.

  **Rationale and implications:** The Laboratory provides students a stronger academic background and the ENSP curriculum greater uniformity vis-à-vis credit requirements in the sciences. METO 201 will experience a very small impact, if any. This is a CORE course offered several times yearly.

- **In the Geography Category:** **DELETE** GEOG 170 (3 credits); **ADD** GEOG 123 Causes and Implications of Global Change (3 cr), **ADD** GEOG 140 Coastal Environments (3 cr).

  **Rationale and implications:** GEOG 170 meets no ENSP concentration requirements and is not considered a pre-requisite in required upper-level Cartography courses. GEOG 123 and/or GEOG 140 will be required of students in the Global Environmental Change and revised Land Use concentrations.

  **Changes in 100-level Geography requirements** will not affect students’ academic progress, since these are entry-level courses without prerequisites.

  GEOG 100 will see fewer ENSP students enrolled, as science-oriented ENSP students will have the additional options of GEOG 123 and GEOG 140. Furthermore, we hope that GEOG 123 and GEOG 140, both of which have healthy enrollments, will attract students to these concentrations, as students do not generally arrive from high school with Geography-related majors in mind. Social science ENSP students will continue to be advised to take GEOG 202, as this is the more relevant course for their studies.
ENSP Major Core Requirements -- all Concentrations -- CURRENT

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Cr</th>
<th>Semester Offered</th>
<th>Prerequisites</th>
<th>Grade</th>
<th>When Completed</th>
<th>Notes</th>
<th>CORE code</th>
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<td>ENSP 101</td>
<td>Intro. to Environmental Science</td>
<td>3</td>
<td>F</td>
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<td>ENSP 102</td>
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<td>3</td>
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<td>MATH 115</td>
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<td>STAT 400 Applied Probability and Statistics I</td>
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At least one course each from 5 of the next 6 groups:

**Biology:**
- BSCI 106 Principles of Biology II

**Chemistry:**
- CHEM 131/132 General Chemistry I

**Earth Sciences:**
- NRSC 200 Fundamentals of Soil Science
- GEOL 100/110 Physical Geology/Lab
- GEOL 120/110 Environmental Geology/Lab
- GEOG 201/211 Geography of Envr. Systems/Lab.

**Economics:**
- AREC 240 Intro. to Economics and the Envir.
- ECON 200 Principles of Micro-Economics

**Geography:**
- GEOG 100 Introduction to Geography
- GEOG 170 Maps and Map Use
- GEOG 202 The World in Cultural Perspective

**Govt & Politics:**
- AREC 332 Intro. to Natural Resource Policy
- GVPT 273 Intro. to Environmental Politics

* 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.

** MATH 140 is recommended for ENSP students considering most science-based concentrations and graduate programs in science.

** Check with advisor on the most appropriate choice for your Concentration.
Grading Policy: Beginning in spring semester 2002, students entering the Environmental Science and Policy Program are required to earn C grades or higher in all courses taken within the ENSP core, and in all required courses and restricted electives of the selected area of concentration.

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At least one course each from 5 of the next 6 groups:

**Biology:**
- **BSCI 106** Principles of Biology II 4 | Sp, F, Su | placement in MATH 110 or higher | | |

**Chemistry:**
- **CHEM 131/132** General Chemistry I 3/1 | Sp, F, Su | placement in MATH 110 or higher | | PL |

**Earth Sciences:**
- **NRSC 200** Fundamentals of Soil Science 4 | Sp | CHEM 103 or permission of dept. | | |
- **GEOL 100/110** Physical Geology/Lab 3/1 | Sp, F, Su | - | | PL |
- **GEOL 120/110** Environmental Geology/Lab 3/1 | Sp, F, Su | - | | PS |
- **GEOG 210/211** Geography of Env. Systems/Lab. 3/1 | Sp, F | - | | PL |
- **GEOG 200/201** Weather and Climate/Lab 3/1 | Sp, F | MATH 110 or 115 | | PS |

**Economics:**
- **AREC 240** Intro. to Economics and the Envir. 4 | Sp, F | - | | SB |
- **ECON 200** Principles of Micro-Economics 4 | Sp, F, Su | MATH 110 or higher | | SB |

**Geography:**
- **GEOG 100** Intro to Geography 3 | Fa, Su | - | | |
- **GEOG 123** Causes & Imp of Global Chng 3 | Sp | - | | PS |
- **GEOG 140** Coastal Environments 3 | Fa | - | | PS |
- **GEOG 202** World in Cultural Perspective 3 | Sp | - | | |

**Govt & Politics:**
- **AREC 332** Intro. to Natural Resource Policy 3 | Sp | AREC 240 or ECON 200 | | |
- **GVPT 273** Intro. to Environmental Politics 3 | Sp, F | GVPT 170 or ENSP 102 (recommended) | | |

* Check the current Schedule of Classes to verify semester.
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** Check with advisor on the most appropriate choice for your Concentration.