March 10, 2010

Abbas Aminmansour, Chair
Senate Committee on Educational Policy
Office of the Senate
228 English Building, MC-461

Dear Professor Aminmansour:

Enclosed is a copy of a proposal from the College of Liberal Arts and Sciences to establish an undergraduate minor in Earth, Society and Environment in the School of Earth, Society and Environment.

This proposal has been approved by the College of Liberal Arts and Sciences Committee on Courses and Curricula, Dean’s Cabinet and Executive Committee on behalf of the Faculty of the College. It now requires Senate review.

Sincerely,

Kristi A. Kuntz
Assistant Provost

KAK/dkk

Enclosures

c: A. Elli
C. Livingstone
S. Marshak
A. Mester
J. Tomkin
March 2, 2010

Kritsi Kuntz
Assistant Provost
Swanlund Administration Building
MC-304

Dear Kristi:

The Committee on Courses and Curricula, Dean’s Cabinet, and Executive Committee on behalf of the Faculty of the College of Liberal Arts and Sciences has voted to approve the following proposal:

**Creation of a Minor in Earth, Society, and Environment**

Please address all correspondence concerning this proposal to me. This proposal is now ready for review by the Senate Educational Policy Committee for proposed implementation Fall 2010.

Sincerely,

[Signature]

Ann M. Mester
Associate Dean

enclosure
C: Dr. Jonathan Tomkin
PROPOSAL TO THE SENATE COMMITTEE ON EDUCATIONAL POLICY TO ESTABLISH OR MODIFY AN UNDERGRADUATE MINOR

Title of the proposed minor: Creation of a Minor in Earth, Society, and Environment.

Sponsoring unit(s): School of Earth, Society, and Environment

College Contact: Ann M. Mester, Associate Dean, College of Liberal Arts and Sciences (333-1350; mester@illinois.edu)

School of Earth, Society, and Environment Contact: Jonathan Tomkin, Associate Director of Academic Affairs (244-2928; tomkin@illinois.edu)

Brief description of the program of study:
The minor requires six classes. Three of these are introductory ESE courses, and three of these are advanced ESE courses.

Justification:
The addition of a new ESE minor will provide a needed academic option in environmental studies at UIUC. Currently, the only minor available in LAS that addresses environmental studies is the Environmental Fellows Program (EFP), which is a minor for students that requires a GPA above 3.0 and the completion of an independent research program. (SESE took over the EFP due to the demise of the Environmental Council.) Because of its admissions requirements, the EFP does not meet the need of the general student population for an environmental studies minor. This proposal seeks to establish such a general purpose minor, and serve a widely recognized need on campus.

Budgetary and Staff Implications:

a. Additional staff and dollars needed

We expect on the order of 60 minors (i.e., 20 per year). The required coursework makes use of existing lecture classes, which generally have capacity to enroll additional students. Thus, no additional staff and dollars will be needed.

b. Internal reallocations (e.g. change in class size, teaching loads, student-faculty ratio, etc.)

The Environmental Fellows Program has 50 students but has little impact on class sizes and teaching loads as the students are a very small minority in any class that they take for the minor. Enrollment in the proposed minor is expected to be comparable to that of the EFP, so we do not anticipate a need for any internal allocations.

c. Effect on course enrollment in other departments and explanations of discussions with representatives of those departments
The required courses in this minor can all be completed within the School, and the coursework has been set up to encourage students in the minor to take existing classes within the School. Considering anticipated enrollment, and the relatively large selection of courses that students can choose from, we do not anticipate any additional burden on outside units.

d. Impact on library, computer use, laboratory use, equipment, etc.

Considering anticipated enrollment and the variety of courses that can be used to meet requirements, we anticipate that student needs can be met with existing facilities. The one required course, ESE 200, is a lecture class and so does not use the listed equipment.

Requirements:

<table>
<thead>
<tr>
<th>Hours</th>
<th>Requirements</th>
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<tbody>
<tr>
<td>3-4</td>
<td>Introductory course from the Earth's Physical Systems, Resources, and Hazards course list</td>
</tr>
<tr>
<td>3-4</td>
<td>Introductory course from either the Environment and the Human Response course list or the Sustainability, Policy, and Global Change course list</td>
</tr>
<tr>
<td>3</td>
<td>ESE 200: Earth Systems</td>
</tr>
<tr>
<td>9-12</td>
<td>Three courses from the approved list of advanced courses (as used for the ESE Major), at least two of which must be listed or cross listed as ESE courses.</td>
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<tr>
<td>18-23</td>
<td>Total</td>
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</tbody>
</table>

Prerequisites for the minor: No prerequisites.

Expected enrollment in the minor:
The enrollment is expected to reach around 20 per class.

Admission to the minor: The School’s Associate Director of Academic Affairs will be responsible for monitoring enrollment in the minor.

Minor advisor:
Students in the Minor will be advised by the School’s Associate Director of Academic Affairs.

Certification of successful completion: The College of the student will confirm whether the minor has been completed, based on a review of the coursework that the student has taken. If a Minor Modification Form is needed, LAS will review the course substitutions, in consultation with the School of Earth, Society and Environment if needed, and approve completion of the minor with the College of the student.
CLEARANCES:

[Signature]
Director, School of Earth, Society, and Environment

[Signature]  3/3/10
Dean, College of LAS

Chair, Senate Educational Policy Committee:

Proposed Effective Date: Fall 2010
Statement for the Programs of Study Catalog

Minor in Earth, Society, and Environment

The ESE minor is designed for students who desire to obtain a background in topics related to environmental studies, in order to support study and practice of their major field. A minimum of 18 hours is required.

For more information and a list of approved courses visit: www.earth.illinois.edu.

Questions may be addressed to Jonathan Tomkin, tomkin@illinois.edu.

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<td>Introductory course from the Earth's Physical Systems, Resources, and Hazards Area course list.</td>
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<td>Introductory course from either the Environment and the Human Response or Sustainability, Policy, and Global Change Area course lists</td>
</tr>
<tr>
<td>3</td>
<td>ESE 200: Earth Systems</td>
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<tr>
<td>9-12</td>
<td>Three Advanced Courses from a list maintained by the minor advisor, at least two of which must be listed or cross listed as ESE courses</td>
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<td>18-23</td>
<td>Total</td>
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Appendix A
ESE Introductory Course Lists

• Environment and the Human Response
  GEOG/ESES 106  Geographies of Globalization
  GEOG/ESES 210  Contemp Social & Env Problems
  NRES/ESES 287  Environment and Society
  ACE 210  Environmental Economics
  ACE 251  The World Food Economy
  HIST 282  Nature and American Culture
  SOC 160  Global Ineq and Social Change

• Sustainability, Policy, and Global Change
  ANTH 278  Climate Change & Civilization
  ATMS/ESES 140  Climate and Global Change
  ATMS 202  Soc Impacts Weather & Climate
  GEOL/ESES 208  History of the Earth System
  GEOG 214  Conserv Natural Resources
  NPRE 101  Energy Sources
  NPRE 201  Energy Systems
  PS 225  Environmental Politics
  LA 250  Environmental Site Analysis
  SOC 270  Population Issues

• Earth's Physical Systems, Resources, and Hazards
  ATMS 100  Introduction to Meteorology
  ATMS/ESES 120  Severe and Hazardous Weather
  ATMS 201  General Meteorology
  GEOG/ESES 103  Earth's Physical System
  GEOG/ESES 222  Big Rivers of the World
  GEOL 100  Planet Earth
  GEOL 101  Introductory Physical Geology
  GEOL 103  Planet Earth QR II
  GEOL/ESES 104  Geology of the National Parks
  GEOL 107  Physical Geology
  GEOL/ESES 117  The Oceans
  GEOL/ESES 118  Natural Disasters

ESE Advanced Course Lists

• Environment and the Human Response
  Courses on the list may require specific prerequisites. Check the courses catalog
  GEOG /ESES 381  Environmental Perspectives
  GEOG 384  Population Geography
  GEOG 455  Geog of Sub-Saharan Africa
  GEOG 465  Trans Systems and Spatial Dev
  GEOG 483  Urban Geography
  ACE 310  Natural Resource Economics
  ACE 406  Environmental Law and Policy
  AGCM 330  Environmental Communications
  AGCM 430  Comm in Env Social Movements
  CHLH 469  Environmental Health
  LA 450  Ecology of Land Restoration
  NRES 472  Environmental Psychology
  SOC 447  Environmental Sociology
• Sustainability, Policy, and Global Change
Courses on the list may require specific prerequisites. Check the courses catalog

- ESES 482 Challenges of Sustainability
- GEOG/ESES 466 Environmental Policy
- GEOG 446 Sustainable Planning Seminar
- ATMS 447 Climate Change Assessment
- ATMS 449 Biogeochemical Cycles
- CPSC 431 Plants and Global Change
- CPSC 336 Tomorrow's Environment
- NPRE 480 Energy and Security
- NRES/ESES 325 Natural Resource Policy Mgmt
- NRES 439 Env and Sustainable Dev
- TSM 311 Humanity in the Food Web

• Earth's Physical Systems, Resources, and Hazards
-- CHEM 104/105 and one from GEOL 100, 101, 107, or 208, are recommended; other courses on the list may have specific prerequisites.

- ESES 320 Water Planet, Water Crisis
- ATMS 420 Atmospheric Chemistry
- GEOG/ESES 401 Watershed Hydrology
- GEOG 406 Fluvial Geomorphology
- GEOG 408 Watershed Analysis
- GEOG/ESES 467 Dynm Simul of Nat Res Problems
- GEOL/ESES 333 Earth Materials and the Env
- GEOL/ESES 380 Environmental Geology
- GEOL 401/ESES 411 Geomorphology
- GEOL 460 Geochemistry
- GEOL/ESES 470 Introduction to Hydrogeology
- CEE 330 Environmental Engineering
- CHEM 360 Chemistry of the Environment
- CHEM 460 Green Chemistry
- NRES 351 Environmental Chemistry

• Visualizing the Earth System
Courses on the list may require specific prerequisites. Check the courses catalog

- ATMS 305 Computing and Data Analysis
- ATMS 411 Satellite Remote Sensing
- ATMS/ESES 421 Earth System Modeling
- GEOG 371 Spatial Analysis
- GEOG 468 Biological Modeling
- GEOG 469 Spatial Ecosystem Modeling
- GEOG 476 Applied GIS to Environ Studies
- GEOG 477 Introduction to Remote Sensing
- GEOG 460 Anal & Interp Aerial Photos
- GEOL 451 Methods in Applied Geophysics
- GEOL 479 Advanced Geog Info Systems
- NRES 454 GIS in Natural Resource Mgmt

• Earth's Biosphere and Ecology
-- Note: IB 150, MCB 150, and IB 203 are required as pre-requisites.

Other courses on the list may require specific prerequisites. Check the courses catalog
<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>IB 363</td>
<td>Plants and Their Uses</td>
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<td>IB 405</td>
<td>Ecological Genetics</td>
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<tr>
<td>IB 439/ES 439</td>
<td>Biogeography</td>
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<td>IB 444</td>
<td>Insect Ecology</td>
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<td>IB 445</td>
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<td>Ecosystem Ecology</td>
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<td>IB 453</td>
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<td>IB 449</td>
<td>Limnology</td>
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<td>NRES 348</td>
<td>Fish and Wildlife Ecology</td>
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<td>NRES 419</td>
<td>Env and Plant Ecosystems</td>
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<td>NRES 420</td>
<td>Restoration Ecology</td>
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<tr>
<td>CPSC 431</td>
<td>Plants and Global Change</td>
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