

UNIVERSITY OF ILLINOIS
AT URBANA - CHAMPAIGN

EP.10.42

Office of the Provost and Vice Chancellor
for Academic Affairs

Swanlund Administration Building
601 East John Street
Champaign, IL 61820



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MAR 10 2010

OFFICE OF THE SENATE

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

UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

Office of the Dean

College of Liberal Arts and Sciences
294 Lincoln Hall
702 South Wright Street
Urbana, IL 61801-3631



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MAR - 3 2010
OFFICE of the PROVOST

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,

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:

Hours	Requirements
3-4	Introductory course from the Earth's Physical Systems, Resources, and Hazards course list
3-4	Introductory course from either the Environment and the Human Response course list or the Sustainability, Policy, and Global Change course list
3	ESE 200: Earth Systems
9-12	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.
18-23	Total

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:

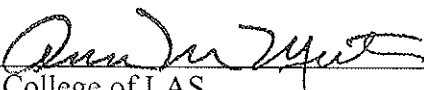
Students in the Minor will be advised by the School's Associate Director of Academic Affairs.

Certification of successful completion: The College of the student will confirm whether the minor has been completed, based on a review of the course work 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:



Director, School of Earth, Society, and Environment

 3/2/10

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.

Hours	Requirements
3-4	Introductory course from the Earth's Physical Systems, Resources, and Hazards Area course list.
3-4	Introductory course from either the Environment and the Human Response or Sustainability, Policy, and Global Change Area course lists
3	ESE 200: Earth Systems
9-12	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
18-23	Total

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
GEOG/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

UP 405	Watershed Ecology and Planning
UP 442	Environmental Policy and Law

• **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
GEOG 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

IB 363	Plants and Their Uses
IB 405	Ecological Genetics
IB 439/ ESES 439	Biogeography
IB 444	Insect Ecology
IB 445	Chemical Ecology
IB 446	Tropical Ecology
IB 447	Field Ecology
IB 451	Conservation Biology
IB 452	Ecosystem Ecology
IB 453	Community Ecology
IB 470	Field Botany
IB 493	Statistical Ecology
IB 449	Limnology
NRES 348	Fish and Wildlife Ecology
NRES 419	Env and Plant Ecosystems
NRES 420	Restoration Ecology
CPSC 431	Plants and Global Change