



Proposal to the Senate Educational Policy Committee

PROPOSAL TITLE: Revision of NRES (Department of Natural Resources and Environmental Sciences) Concentration Requirements: Global Change & Landscape Dynamics Concentration

SPONSOR: Jeffrey D Brawn, Professor, (217) 244-5937, jbrawn@illinois.edu

BRIEF DESCRIPTION: This is a minor change to a NRES concentration. It involves eliminating courses from the requirements that are no longer taught due to retirements, and adding courses taught by newly hired faculty members, the overall credits required do not change, nor do the core courses, but the number of electives is increased slightly to give more flexibility to the students.

JUSTIFICATION: Recent retirements have caused some classes to be no longer offered in NRES; some of these classes were listed on our concentrations as requirements on short selection lists. They have been removed from those choices. In addition, new hires bring new talents and interests to our faculty, and new courses offered by the newly hired faculty members have been added to the concentrations as options as partial replacements for the discontinued courses. We have also decreased the total number of requirements by 2-3 credits while keeping the overall requirements at 126 credits. Our core requirements have not changed, just the courses on the “select one of many” lists for each concentration. This will give the students more flexibility in class scheduling, while maintain a consistent level of rigor in all our concentrations.

BUDGETARY AND STAFF IMPLICATIONS:

- a. Additional staff and dollars needed: **None**
- b. Internal reallocations (e.g., change in class size, teaching loads, student-faculty ratio, etc.): **None**
- c. Effect on course enrollment in other units and explanations of discussions with representatives of those departments: **None Expected**
- d. Impact on the University Library: **None**
- e. Impact on computer use, laboratory use, equipment, etc.: **None**

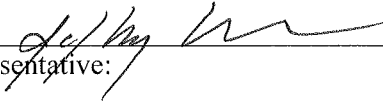
DESIRED EFFECTIVE DATE: Fall 2012

STATEMENT FOR PROGRAMS OF STUDY CATALOG:

The titles of the major and minor and concentrations in NRES will not change.

CLEARANCES: (Clearances should include signatures and dates of approval. **These signatures must appear on a separate sheet.** If multiple departments or colleges are sponsoring the proposal, please add the appropriate signature lines below.)


Signatures:



Unit Representative:

6-13-12

Date:



College Representative:

6-13-12

Date:

Graduate College Representative:

Date:

Council on Teacher Education Representative:

Date:

Appendix B: Proposed Curriculum Revisions

Current Prescribed Courses and General Education

Hrs	Composition I and Speech
	Choose either :
4-3	RHET 105 - Principles of Composition or equivalent (see College Composition I requirement) <i>and</i> CMN 101 - Public Speaking <i>or</i>
6	CMN 111 - Oral and Written Communication I <i>and</i> CMN 112 - Oral and Written Communication II
Hrs	Advanced Composition
3-4	Select from campus approved list
Hrs	Cultural Studies
6	Select one course from Western culture and one from non-Western/U.S. minority culture from campus approved list.
Hrs	Foreign Language: Coursework at or above the third level is required for graduation.
Hrs	Quantitative Reasoning I
4-5	Select one course from: MATH 220 - Calculus MATH 221 - Calculus I MATH 234 - Calculus for Business, I
Hrs	Quantitative Reasoning II
3-4	Select one course from: ACE 261 - Applied Statistical Methods CPSC 241 - Intro to Applied Statistics ECON 202 - Economic Statistics I MATH 161 - Statistics PSYC 235 - Intro to Statistics SOC 280 - Intro to Social Statistics STAT 100 - Statistics
Hrs	Natural Sciences and Technology
4	CHEM 102 - General Chemistry I <i>and</i> CHEM 103 - General Chemistry Lab I
4	CHEM 104 - General Chemistry II <i>and</i> CHEM 105 - General Chemistry Lab II
4	IB 103 - Introduction to Plant Biology
3-5	Select one course from: GEOG 103 - Earth's Physical Systems GEOL 107 - Physical Geology PHYS 101 - College Physics, Mech & Heat MCB 100 - Introductory Microbiology
Hrs	Humanities and the Arts
6	Select from campus approved list.
Hrs	Social and Behavioral Sciences
3-4	ACE 100 - Agr Cons and Resource Econ or ECON 102 - Microeconomic Principles
3	Select from campus approved list.
Hrs	ACES Required
2	ACES 101 - Contemporary Issues in ACES
48-58	Concentration prescribed courses. See specific requirements for each concentration listed below.
126	Total

Proposed Prescribed Courses and General Education

Hrs	Composition I and Speech
	Choose either:
3-4	RHET 105 - Principles of Composition or equivalent (see College Composition I requirement) <i>and</i> CMN 101 - Public Speaking <i>or</i>
6	CMN 111 - Oral and Written Communication I <i>and</i> CMN 112 - Oral and Written Communication II
Hrs	Advanced Composition
3-4	Select from campus approved list
Hrs	Cultural Studies
6	Select one course from Western culture and one from non-Western/U.S. minority culture from campus approved list.
	Foreign Language: Coursework at or above the third level is required for graduation.
Hrs	Quantitative Reasoning I
4-5	Select one course from: MATH 220 - Calculus <i>or</i> MATH 221 - Calculus I <i>or</i> MATH 234 - Calculus for Business, I
Hrs	Quantitative Reasoning II
3-4	Select one course from: ACE 261 - Applied Statistical Methods CPSC 241 - Intro to Applied Statistics ECON 202 - Economic Statistics I MATH 161 - Statistics PSYC 235 - Intro to Statistics SOC 280 - Intro to Social Statistics STAT 100 - Statistics
Hrs	Natural Sciences and Technology
4	CHEM 102 - General Chemistry I <i>and</i> CHEM 103 - General Chemistry Lab I
4	CHEM 104 - General Chemistry II <i>and</i> CHEM 105 - General Chemistry Lab II
8	IB 103 - Introduction to Plant Biology <i>and</i> IB 104 - Animal Biology
3-5	Select one course from: GEOG 103 - Earth's Physical Systems GEOL 107 - Physical Geology PHYS 101 - College Physics, Mech & Heat MCB 100 - Introductory Microbiology
Hrs	Humanities and the Arts
6	Select from campus approved list.
Hrs	Social and Behavioral Sciences
3-4	ACE 100 - Agr Cons and Resource Econ <i>or</i> ECON 102 - Microeconomic Principles
3	Select from campus approved list.
Hrs	ACES Required
2	ACES 101 - Contemporary Issues in ACES
44-56	NRES prescribed courses. See specific requirements for NRES and each concentration listed below.
126	Total

Current NRES Core Requirements

Hrs	Natural Resources and Environmental Sciences Required
4	IB 104 - Animal Biology
3	NRES 102 - Introduction to NRES
4	NRES 201 - Introductory Soils
3	NRES 219 - Principles of Ecosystem Mgmt
3	NRES 287 - Environment and Society
3	NRES 348 - Fish and Wildlife Ecology
3	NRES 454 - GIS in Natural Resource Mgmt
3	NRES 456 - Integrative Ecosystem Mgmt

Proposed NRES Core Requirements

Hrs	Natural Resources and Environmental Sciences Required
3	NRES 102 - Introduction to NRES
4	NRES 201 - Introductory Soils
3	NRES 219 - Principles of Ecosystem Mgmt
3	NRES 287 - Environment and Society
3	NRES 348 - Fish and Wildlife Ecology
3	NRES 454 - GIS in Natural Resource Mgmt
3	NRES 456 - Integrative Ecosystem Mgmt
Two Repeatable Field Methods Courses selected from:	
2-4	NRES 276 - Introduction to Field Pedology <i>or</i> NRES 285 - Natural Resource Field Experience

Justification for the change to the NRES core: simplification of concentration requirement lists; IB 104 moves into the Natural Sciences and Technology Required Group, the two field methods classes requirement redundantly appears in all concentrations. In addition, NRES 211 and 221 are no longer taught so they were removed from the Field Methods choices.

**Global Change & Landscape Dynamics
Current Requirements**

Hrs	Global Change & Landscape Dynamics Concentration Required
3	NRES 439-Env and Sustainable Dev
3-4	NRES 421-Quantitative Methods in NRES or NRES 440-Applied Statistical Methods I

Hrs	One Ecology course selected from
3-4	NRES 462-Ecosystem Ecology NRES 465-Landscape Ecology
	UP 406-Urban Ecology

Hrs	One Analytical Approaches course selected from
2-4	NRES 422-Earth Systems Modeling NRES 455-Adv GIS for Nat Res Planning NRES 460-Anal & Interp Aerial Photo NRES 469-Spatial Ecosystem Modeling
	NRES 477-Introduction to Remote Sensing ATMS 447-Climate Change Assessment UP 316-Planning Analysis

Hrs	One Applied Large Scale Ecology course selected from
3-4	NRES 419-Env and Plant Ecosystems NRES 431-Plants and Global Change NRES 462-Ecosystem Ecology
	NRES 465-Landscape Ecology UP 405-Watershed Ecology and Planning UP 406-Urban Ecology

Hrs	One Planning & Policy course selected from
3-4	NRES 325-Natural Resource Policy Mgmt NRES 446-Sustainable Planning Seminar ATMS 202-Soc Impacts Weather & Climate
	PS 225-Environmental Politics & Policy ACE 406-Environmental Law

Hrs	One Environmental Quality course selected from
3-5	NRES 351-Environmental Chemistry NRES 490-Surface Water System Chemistry ATMS 449-Biogeochemical Cycles CEE 330-Environmental Engineering AND CEE 430-Ecological Quality Engineering

Hrs	Two Management Practices, Measurement, & Evaluations courses selected from
3-4	NRES 211 - Forest Ecology Field Studies NRES 221 - NRES Field Sampling
	NRES 276 - Introduction to Field Pedology NRES 285 - Natural Resource Field Experience

**Global Change & Landscape Dynamics
Proposed Requirements**

Hrs	Global Change & Landscape Dynamics Concentration Required
6	NRES 419 - Env and Plant Ecosystems <i>and</i> NRES 465 - Landscape Ecology
3-4	NRES 421 - Quantitative Methods in NRES <i>or</i> NRES 440 - Applied Statistical Methods I

Hrs	One Ecology course selected from:
3-4	NRES 420 - Restoration Ecology NRES 431 - Plants and Global Change NRES 462 - Ecosystem Ecology IB 361 - Ecology and Human Health UP 405 - Watershed Ecology and Planning UP 406 - Urban Ecology

Hrs	One Geospatial Techniques course selected from:
2-4	NRES 455 - Adv GIS for Nat Res Planning NRES 460 - Anal & Interp Aerial Photo NRES 477 - Introduction to Remote Sensing UP 316 - Planning Analysis GEOG 412 - Geospatial Tech & Society

Hrs	One Planning & Policy course selected from:
3-4	NRES 325 - Natural Resource Policy Mgmt NRES 310 - Natural Resource Economics NRES 424 - US Environ. Justice & Policy NRES 425 - Nat Res Law & Policy NRES 426 - Renewable Energy Policy NRES 439 - Env and Sustainable Dev NRES 446 - Sustainable Planning Seminar ACE 406 - Environmental Law

Hrs	One Environmental Quality course selected from:
3-5	NRES 351 - Environmental Chemistry NRES 403 - Watersheds and Water Quality NRES 438 - Soil Nutrient Cycling NRES 474 - Soil & Water Conservation NRES 475 - Environmental Microbiology ATMS 449 - Biogeochemical Cycles ESE 320 - Water Planet, Water Crisis GEOL 380 - Environmental Geology

Changes to the Global Change and Landscape Dynamics Concentration: Incorporates new courses under development by newly hired faculty members, eliminates classes no longer taught, simplifies requirements, and transfers the Field Methods Class requirement to the NRES core to eliminate duplication.



Senate Educational Policy Committee Proposal Check Sheet

PROPOSAL TITLE: Revision of NRES (Department of Natural Resources and Environmental Sciences) Concentration Requirements: Global Change & Landscape Dynamics Concentration

PROPOSAL TYPE (Please select all that apply below):

A. **Program and degree proposals**

1. This proposal is for a graduate program or degree

Yes No

2. **Degree** proposal (e.g. B.S., M.A. or Ph.D.)

New degree — please name the new degree: _____

Revision of an existing degree — please name the existing degree to be revised:

3. **Major** proposal (disciplinary focus, e.g., Mathematics)

New major — please name the new major: _____

Revision of an existing major — please name the existing major to be revised: _____

4. **Concentration** proposal (e.g. Financial Planning)

New concentration — please name the new concentration: _____

Revision of an existing concentration — please name the existing concentration to be revised: **Global Change & Landscape Dynamics**

Minor proposal (e.g. Cinema Studies)

New minor — please name the new minor: _____

Revision of an existing minor — please name the existing minor to be revised: _____

5. Proposal for renaming an existing degree, major, concentration, or minor

degree major concentration minor

Please provide the current name: _____

Please provide the proposed new name: _____

6. Proposal for terminating an existing degree, major, concentration, or minor

Please name the existing degree, major, concentration, or minor: _____

7. Proposal for a multi-institutional degree between Illinois (UIUC) and a foreign institution

Please name the existing Illinois degree or program: _____

Please name the partnering institution: _____

B. **Proposal for renaming existing academic units** (college, school, department, or program)

Please provide the unit's current name: _____

Please provide the unit's proposed new name: _____

C. **Proposal for reorganizing existing units** (colleges, schools, departments, or programs)

Change in status of an existing and approved unit (e.g. change from a program to department) — please indicate current unit name including status: _____

Transfer an existing unit

Please provide the current unit's name and home: _____

Please provide the new home for the unit: _____

Merge two or more existing units (e.g., merge department A with department B)

Please provide the name and college of unit one to be merged: _____

Please provide the name and college of unit two to be merged: _____

Terminate an existing unit — please provide the current unit's name and status: _____

D. **Other educational policy proposals** (e.g., academic calendar, grading policies, etc.)

Please indicate the nature of the proposal: _____

UNIVERSITY OF ILLINOIS
AT URBANA - CHAMPAIGN

EP.13.04

Office of the Provost and Vice Chancellor
for Academic Affairs

Swanlund Administration Building
601 East John Street
Champaign, IL 61820



August 2, 2012

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

Dear Professor Miller:

Enclosed is a copy of a proposal from the College of Agricultural, Consumer and Environmental Sciences to revise the Global Change and Landscape Dynamics concentration in the BS in Natural Resources and Environmental Sciences.

This proposal has been approved by the ACES Courses and Curriculum Committee. It now requires Senate review.

Sincerely,

A handwritten signature in black ink that reads "Kristi A. Kuntz".

Kristi A. Kuntz
Assistant Provost

KAK/njh

Enclosures

c: F. W. Simmons
J. D. Brawn
R. G. Darmody

UNIVERSITY OF ILLINOIS
AT URBANA - CHAMPAIGN

College of Agricultural, Consumer
and Environmental Sciences

Academic Programs
128 Mumford Hall, MC-710
1301 West Gregory Drive
Urbana, IL 61801



June 12, 2012

Kristi Kuntz, Assistant Provost
Office of the Provost, Second Floor
Swanlund Administration Building
Campus MC-304

Dear Kristi:

Please find enclosed four proposals from the College of ACES to make minor changes within the following curricula in the Department of Natural Resources and Environmental Sciences:

- **Revision of the Concentration in *Resource Conservation and Restoration Ecology***
- **Revision of the Concentration in *Global Change and Landscape Dynamics***
- **Revision of the Concentration in *Fish and Wildlife Conservation***
- **Revision of the Concentration in *Human Dimensions of the Environment***

They have all been reviewed and approved by the ACES C&C Committee, and now I am forwarding them to you for campus-level review.

Thank you for your consideration of these proposals. Please feel free to contact me should you have any questions.

Sincerely,

F. William Simmons
Assistant Dean, College of ACES

FWS/rhc

cc: J. D. Brawn
R. G. Darmody
NRES C&C File