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## Proposal to the Senate Educational Policy Committee

**PROPOSAL TITLE:** Revision of NRES (Department of Natural Resources and Environmental Sciences) Concentration Requirements: Resource Conservation and Restoration Ecology Concentration

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

**BRIEF DESCRIPTION:** This is a minor change to the existing NRES concentration. It involves eliminating courses from the requirements that are no longer taught due to retirements, and adding courses taught by a newly hired faculty member, the overall credits required do not change, nor do the core requirements, 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**

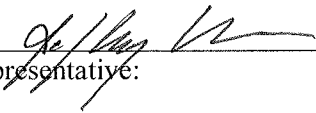
**DESIRED EFFECTIVE DATE:** Fall 2012

### **STATEMENT FOR PROGRAMS OF STUDY CATALOG:**

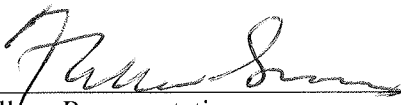
The titles of the major and minor and concentrations in NRES will not change.

**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

<b>Hrs</b>	<b>Composition I and Speech</b>
	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
<b>Hrs</b>	<b>Advanced Composition</b>
3-4	Select from campus approved list
<b>Hrs</b>	<b>Cultural Studies</b>
6	Select one course from Western culture and one from non-Western/U.S. minority culture from campus approved list.
<b>Hrs</b>	<b>Foreign Language: Coursework at or above the third level is required for graduation.</b>
<b>Hrs</b>	<b>Quantitative Reasoning I</b>
4-5	Select one course from: MATH 220 - Calculus MATH 221 - Calculus I MATH 234 - Calculus for Business, I
<b>Hrs</b>	<b>Quantitative Reasoning II</b>
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
<b>Hrs</b>	<b>Natural Sciences and Technology</b>
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
<b>Hrs</b>	<b>Humanities and the Arts</b>
6	Select from campus approved list.
<b>Hrs</b>	<b>Social and Behavioral Sciences</b>
3-4	ACE 100 - Agr Cons and Resource Econ or ECON 102 - Microeconomic Principles
3	Select from campus approved list.
<b>Hrs</b>	<b>ACES Required</b>
2	ACES 101 - Contemporary Issues in ACES
48-58	Concentration prescribed courses. See specific requirements for each concentration listed below.
<b>126</b>	<b>Total</b>

### Proposed Prescribed Courses and General Education

<b>Hrs</b>	<b>Composition I and Speech</b>
	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
<b>Hrs</b>	<b>Advanced Composition</b>
3-4	Select from campus approved list
<b>Hrs</b>	<b>Cultural Studies</b>
6	Select one course from Western culture and one from non-Western/U.S. minority culture from campus approved list.
	<b>Foreign Language: Coursework at or above the third level is required for graduation.</b>
<b>Hrs</b>	<b>Quantitative Reasoning I</b>
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
<b>Hrs</b>	<b>Quantitative Reasoning II</b>
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
<b>Hrs</b>	<b>Natural Sciences and Technology</b>
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
<b>Hrs</b>	<b>Humanities and the Arts</b>
6	Select from campus approved list.
<b>Hrs</b>	<b>Social and Behavioral Sciences</b>
3-4	ACE 100 - Agr Cons and Resource Econ <i>or</i> ECON 102 - Microeconomic Principles
3	Select from campus approved list.
<b>Hrs</b>	<b>ACES Required</b>
2	ACES 101 - Contemporary Issues in ACES
44-56	NRES prescribed courses. See specific requirements for NRES and each concentration listed below.
<b>126</b>	<b>Total</b>

**Current NRES Core Requirements**

<b>Hrs</b>	<b>Natural Resources and Environmental Sciences Required</b>
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**

<b>Hrs</b>	<b>Natural Resources and Environmental Sciences Required</b>
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
<b>Two Repeatable Field Methods Courses selected from:</b>	
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.

**Resource Conservation and Restoration Ecology  
Current Requirements**

Hrs	Resource Conservation & Restoration Ecology Concentration Required
3	NRES 420-Restoration Ecology
3-4	NRES 421-Quantitative Methods in NRES or NRES 440-Applied Statistical Methods I

Hrs	One Specialization course selected from						
3	<table border="0"> <tr> <td>CPSC 226-Introduction to Weed Science</td> <td>NRES 280-Forest and Landscape Insects</td> </tr> <tr> <td>PLPA 204-Introductory Plant Pathology</td> <td>NRES 313-Silviculture</td> </tr> <tr> <td>NRES 270-Applied Entomology</td> <td></td> </tr> </table>	CPSC 226-Introduction to Weed Science	NRES 280-Forest and Landscape Insects	PLPA 204-Introductory Plant Pathology	NRES 313-Silviculture	NRES 270-Applied Entomology	
CPSC 226-Introduction to Weed Science	NRES 280-Forest and Landscape Insects						
PLPA 204-Introductory Plant Pathology	NRES 313-Silviculture						
NRES 270-Applied Entomology							

Hrs	One Watershed Science course selected from						
3-4	<table border="0"> <tr> <td>NRES 351-Environmental Chemistry</td> <td>NRES 406-Fluvial Geomorphology</td> </tr> <tr> <td>NRES 401-Watershed Hydrology</td> <td>NRES 489-Physics of Plant Environments</td> </tr> <tr> <td>NRES 403-Watersheds and Water Quality</td> <td></td> </tr> </table>	NRES 351-Environmental Chemistry	NRES 406-Fluvial Geomorphology	NRES 401-Watershed Hydrology	NRES 489-Physics of Plant Environments	NRES 403-Watersheds and Water Quality	
NRES 351-Environmental Chemistry	NRES 406-Fluvial Geomorphology						
NRES 401-Watershed Hydrology	NRES 489-Physics of Plant Environments						
NRES 403-Watersheds and Water Quality							

Hrs	One Plant Classification/Identification course selected from				
3-5	<table border="0"> <tr> <td>NRES 302-Dendrology</td> <td>IB 335-Systematics of Plants</td> </tr> <tr> <td>NRES 415-Native Plant ID and Floristics</td> <td>IB 470-Field Botany</td> </tr> </table>	NRES 302-Dendrology	IB 335-Systematics of Plants	NRES 415-Native Plant ID and Floristics	IB 470-Field Botany
NRES 302-Dendrology	IB 335-Systematics of Plants				
NRES 415-Native Plant ID and Floristics	IB 470-Field Botany				

Hrs	One Soil Science course selected from						
3	<table border="0"> <tr> <td>NRES 471-Pedology</td> <td>NRES 487-Soil Chemistry</td> </tr> <tr> <td>NRES 474-Soil and Water Conservation</td> <td>NRES 488-Soil Fertility and Fertilizers</td> </tr> <tr> <td>NRES 475-Soil Microbiology</td> <td></td> </tr> </table>	NRES 471-Pedology	NRES 487-Soil Chemistry	NRES 474-Soil and Water Conservation	NRES 488-Soil Fertility and Fertilizers	NRES 475-Soil Microbiology	
NRES 471-Pedology	NRES 487-Soil Chemistry						
NRES 474-Soil and Water Conservation	NRES 488-Soil Fertility and Fertilizers						
NRES 475-Soil Microbiology							

Hrs	One Ecology course selected from								
3-4	<table border="0"> <tr> <td>NRES 419-Env and Plant Ecosystems</td> <td>NRES 465-Landscape Ecology</td> </tr> <tr> <td>NRES 429-Aquatic Ecosystem Conservation</td> <td>IB 446-Tropical Ecology</td> </tr> <tr> <td>NRES 452-Community Ecology</td> <td>CPSC 437-Principles of Agroecology</td> </tr> <tr> <td>NRES 462-Ecosystem Ecology</td> <td></td> </tr> </table>	NRES 419-Env and Plant Ecosystems	NRES 465-Landscape Ecology	NRES 429-Aquatic Ecosystem Conservation	IB 446-Tropical Ecology	NRES 452-Community Ecology	CPSC 437-Principles of Agroecology	NRES 462-Ecosystem Ecology	
NRES 419-Env and Plant Ecosystems	NRES 465-Landscape Ecology								
NRES 429-Aquatic Ecosystem Conservation	IB 446-Tropical Ecology								
NRES 452-Community Ecology	CPSC 437-Principles of Agroecology								
NRES 462-Ecosystem Ecology									

Hrs	Two Management Practices, Measurement, & Evaluations courses selected from						
3-4	<table border="0"> <tr> <td>NRES 211-Forest Ecology Field Studies</td> <td>NRES 276-Introduction to Field Pedology</td> </tr> <tr> <td>NRES 215-Forest Resource Mgmt Practicum</td> <td>NRES 285-Natural Resource Field Experience</td> </tr> <tr> <td>NRES 221-NRES Field Sampling</td> <td></td> </tr> </table>	NRES 211-Forest Ecology Field Studies	NRES 276-Introduction to Field Pedology	NRES 215-Forest Resource Mgmt Practicum	NRES 285-Natural Resource Field Experience	NRES 221-NRES Field Sampling	
NRES 211-Forest Ecology Field Studies	NRES 276-Introduction to Field Pedology						
NRES 215-Forest Resource Mgmt Practicum	NRES 285-Natural Resource Field Experience						
NRES 221-NRES Field Sampling							

**Resource Conservation and Restoration Ecology  
Proposed Requirements**

Hrs	Resource Conservation & Restoration Ecology Concentration Required
6	NRES 419 - Env and Plant Ecosystems <i>and</i> NRES 420 - Restoration Ecology
3-4	NRES 421 - Quantitative Methods in NRES <i>or</i> NRES 440 - Applied Statistical Methods I

Hrs	One Watershed Science course selected from:
3-4	NRES 401 - Watershed Hydrology NRES 403 - Watersheds and Water Quality NRES 406 - Fluvial Geomorphology NRES 429 - Aquatic Ecosystem Conservation NRES 490 - Surface Water System Chemistry

Hrs	One Plant Classification/Identification course selected from:
3-5	NRES 415 - Native Plant ID and Floristics <i>or</i> IB 335 - Systematics of Plants <i>or</i> IB 470 - Field Botany

Hrs	One Soil and Environmental Science course selected from:
3	NRES 351 - Environmental Chemistry NRES 471 - Pedology NRES 474 - Soil and Water Conservation NRES 475 - Environmental Microbiology NRES 487 - Soil Chemistry NRES 488 - Soil Fertility and Fertilizers NRES 489 - Physics of Plant Environments

Hrs	One Ecology course selected from:
3-4	NRES 438 - Soil Nutrient Cycling NRES 452 - Community Ecology NRES 462 - Ecosystem Ecology NRES 465 - Landscape Ecology CPSC 437 - Principles of Agroecology IB 439 - Biogeography

Changes to the Resource Conservation and Restoration Ecology Concentration: Minor changes to requirements, NRES 419 moved from a chose one from six to a required class. The two Management Practices, Measurement, & Evaluations courses moved to NRES core to remove redundancy within concentrations.

UNIVERSITY OF ILLINOIS  
AT URBANA-CHAMPAIGN

EP.13.03

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 Resource Conservation and Restoration Ecology 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,

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



## Senate Educational Policy Committee Proposal Check Sheet

**PROPOSAL TITLE:** Revision of NRES (Department of Natural Resources and Environmental Sciences) Concentration Requirements: Resource Conservation and Restoration Ecology 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: **Resource Conservation and Restoration Ecology**

**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: \_\_\_\_\_