

4-6-2009

## New Concentration in the Environmental Science Major: Wetland Ecology

The College at Brockport, College Senate

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The College at  
**BROCKPORT**  
STATE UNIVERSITY OF NEW YORK  
College Senate  
350 New Campus Drive  
Brockport, NY 14420-2925

RECEIVED

APR 10 2009

The College at Brockport  
Office of the President

Resolution # 21  
2008-2009  
College Senate

New Resolution:   
Supersedes Res #:

TO: Dr. John R. Halstead, College President  
FROM: The College Senate: *April 6, 2009*  
RE: → I. Formal Resolution (*Act of Determination*)  
II. Recommendation (*Urging the Fitness of*)  
III. Other, For Your Information (*Notice, Request, Report, etc.*)

COLLEGE SENATE  
SUNY College at Brockport  
APR 29 2009  
350 New Campus Drive  
Brockport, NY 14420-2925

SUBJ: ***New Concentration in the Environmental Science Major: Wetland Ecology*** (*routing #25 08-09 UC*)

Signed: *Thambaballi M. Rao* Date: *4/9/09*  
(*Thambaballi M. Rao, 2008-09 College Senate President*)

Please fill out the bottom portion and follow the distribution instructions at the end of this page.

TO: T.M. Rao, The College Senate President  
FROM: John R. Halstead, College President  
RE: → I. Decision and Action Taken on Formal Resolution (circle choice)  
a. (a) Accepted - Implementation Effective Date: *Fall 2009*  
b. Deferred for discussion with the Faculty Senate on \_\_\_/\_\_\_/\_\_\_  
c. Unacceptable for the reasons contained in the attached explanation  
II, III. Response to Recommendation or Other/FYI  
a. Received and acknowledged \_\_\_/\_\_\_/\_\_\_  
b. Comment: \_\_\_\_\_

Signed: *JRH* Date: *4/24/09*  
(*Dr. John R. Halstead, President, SUNY College at Brockport*)

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DEAN(S) COPY: Department Chair(s), Other: \_\_\_\_\_  
COLLEGE SENATE COPIES: Originator, College Senate Website, Other: \_\_\_\_\_

**DEADLINE FOR SUBMISSIONS: FEBRUARY 28**

Incomplete proposals or proposals received after the deadline may not be reviewed until next semester.

**INSTRUCTIONS:**

- Submit only complete proposals.
- Proposals must be prepared individually in Word format using committee guidelines (guidelines online).
- Fill out this cover page for each proposal (available online at [www.brockport.edu/collegesenate](http://www.brockport.edu/collegesenate)).
- Email proposal and this cover page to [senate@brockport.edu](mailto:senate@brockport.edu) and [facprez@brockport.edu](mailto:facprez@brockport.edu).
- All updates must be resubmitted to the Senate office with the original cover page including routing number.
- Questions? Call the Senate office at 395-2586 or the appropriate committee chairperson.

**1. PROPOSAL TITLE:**

Please be somewhat descriptive, for example, *Graduate Probation/Dismissal Proposal* rather than *Graduate Proposal*.

<b>New Concentration in the Environmental Science Major: Wetland Ecology</b>
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**2. BRIEF DESCRIPTION OF PROPOSAL:**

By hiring a nationally-recognized wetland ecologist with funding from the Empire Innovation Research Fund, The College at Brockport now has the critical mass of expertise to offer a concentration in Wetland Ecology in the Environmental Science major. The ESB Department aims to attract a new population of science majors to the College with this unusual program in the U.S.
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**3. ANTICIPATED DATE OF IMPLEMENTATION:**

<b>Fall 2009</b>
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Enter date this will be effective if passed by the Senate.

**4. SUBMISSION & REVISION DATES: PLEASE PUT A DATE ON ALL UPDATED DOCUMENTS TO AVOID CONFUSION.**

<i>First Submission</i>	<i>Updated on</i>	<i>Updated on</i>	<i>Updated on</i>
November 25, 2008			

RECEIVED AT SENATE OFFICE

**5. SUBMITTED BY: (contact person)**

<i>Name</i>	<i>Department</i>	<i>Phone</i>	<i>Email</i>
James M. Haynes	Env. Sci. & Biology	x-5783	jhaynes@brockport.edu

**6. COMMITTEES TO COPY: (Senate office use only)**

<b>Standing Committee</b>	<b>Forwarded To</b>	<b>Date</b>
<input type="checkbox"/> Enrollment Planning & Policies	Committee	12/04/08
<input type="checkbox"/> Faculty & Professional Staff Policies	Executive Committee To Vice Provost	3/9/09 3/13/09
<input type="checkbox"/> General Education & Curriculum Policies	Senate	3/23/09 announcement
<input type="checkbox"/> Graduate Curriculum & Policies	Senate President's Signature	4/8/09
<input type="checkbox"/> Student Policies	College President's Signature	4/9/09
<input checked="" type="checkbox"/> Undergraduate Curriculum & Policies	To Vice Provost	
	Other	

\*(ROUTING NUMBER IS A CHRONOLOGICAL NUMBER SEQUENCE FOLLOWED BY ACADEMIC YEAR AND COMMITTEE INITIALS)

2. Course and credit requirements for the new Concentration in Wetland Ecology in Environmental Science major.

<b>Change</b>	<b>Old Program Course</b>	<b>Credits</b>	<b>New Program Course</b>	<b>Credits</b>
N	ENV 202 Environmental Science	4	ENV 202 Environmental Science	4
N	ENV 204 Biology of Organisms	4	ENV 204 Biology of Organisms	4
N	ENV 303 Ecology	4	ENV 303 Ecology	4
N	ENV 452 Environ Laws & Regs	3	ENV 452 Environ Laws & Regs	3
N	ENV 492 Global Environ Issues	3	ENV 492 Global Environ Issues	3
N	CHM 205 College Chemistry I	4	CHM 205 College Chemistry I	4
N	CHM 206 College Chemistry II	4	CHM 206 College Chemistry II	4
N	CHM 303 Analytical Chemistry	4	CHM 303 Analytical Chemistry	4
N	GEL 201 Physical Geology	4	GEL 201 Physical Geology	4
N	MTH 201 Calculus I	4	MTH 201 Calculus I	4
N	<b>Core Curriculum Credits</b>	<b>38</b>	<b>Core Curriculum Credits</b>	<b>38</b>
Y	None		ENV 400 Plant Diversity	4
Y	None		ENV 446 Wetland Ecology	4
Y	None		ENV 448 Northern Wetlands	3
Y	None		ESC 412 Hydrology	4
Y	None		ESC 455 Soils Science	3
			CMH 305 Organic Chem I	4
			*One of:	
Y	None		ENV 406 Wildlife Ecology	4
Y	None		ENV 483 Aquatic Invertebrates	4
Y	None		ENV 490 Fish Tech & ID	2
			<b>Required Credits</b>	<b>24-26</b>
Y	None		ENV 405 Plant Ecology	4
Y	None		ENV 419 Limnology	3
Y	None		ENV 435 Restoration Ecology	3
Y	None		ENV 436 Water Quality Analysis	4
Y	None		ENV 437 Biostatistics	3
Y	None		ENV 439 Conservation Biology	3
Y	None		ENV 440 Herpetology	4
Y	None		ENV 488 Environ Imp Analysis	4-6
Y	None		ENV 498 Collaborative Research	1-3
Y	None		ESC 418 Watershed Science	3
Y	None		ESC 431 Environ GIS Applic	3
Y	None		GEL 460 Groundwater	4
			<b>Elective Credits</b>	<b>6-8</b>
Y	None			
Y	None		<b>Total Credits:</b>	<b>68-72</b>
			*Can take more than one to fulfill elective requirements.	

3. Brief rationale for changes.

In the fall of 2008, Dr. Douglas A. Wilcox, a nationally-recognized expert in wetland ecology, joined the faculty of the Department of Environmental Science and Biology as the Empire Innovation Professor of Wetland Science. His expertise on wetlands, combined with strong existing programs in aquatic ecology/biology and watershed science in the ESB and Earth Sciences Departments, make it possible for The College at Brockport to become one of the few institutions of higher education in the U.S. to be able to offer undergraduates professional preparation for graduate school or a career in wetland science.

This new concentration in the Environmental Science major is aimed at attracting a new population of science students to The College at Brockport. To achieve this goal, we will recruit in high schools and community colleges from Maine to Minnesota.

4. Description of new courses. **(None)**

5. Staffing Issues. **(None)**

6. Resources and facilities that may be needed to implement the program. **(None)**

7. Academic administration commentary.

a. Letter of recommendation from the chair—on behalf of the ESB Department, the chairman of ESB drafted this document. Therefore, he approves its contents, and a separate letter is not needed.

b. As a member of the Environmental Science Board, Dr. Mark R. Noll, Chairman of the Department of the Earth Sciences, approved this concentration, so a separate approval is not needed.

c. Approval from Dean Appelle, School of Letters and Sciences.

I approve the attached proposal for a concentration in Wetland Ecology.

Stuart Appelle, Dean

Letters and Sciences

Jim

The Department of Chemistry supports the new Wetlands concentration in The Department of Environmental Science and Biology and does not foresee any resource issues with possible additional enrollment in CHM 305.

Stephen Godleski  
Professor and Chair  
SUNY Brockport  
Department of Chemistry  
585-395-5595