

UNIVERSITY OF WASHINGTON

OFFICE OF THE PRESIDENT

Mark A. Emmert, President

July 13, 2007

Dean B. Bruce Bare College of Forest Resources Box 352100

Dear Bruce:

Based upon the recommendations of the Faculty Council on Academic Standards, the Faculty Council on Tri-Campus Policy has recommended approval of an option in Sustainable Forest Management within the existing major in Environmental Science and Resource Management. A copy of the proposal is attached.

I am writing to inform you that the College of Forest Resources is authorized to offer this option beginning autumn quarter 2007 and thereafter.

The new requirements should be incorporated in printed statements and in individual department websites as soon as possible. The *General Catalog* website will be updated accordingly by the Registrar's Office.

Sincerely yours,

Mark A. Emmert

President

Enclosure

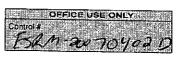
cc: Michelle Trudeau (with enclosure)

Mr. Robert Corbett (with enclosure)

Dr. Deborah H. Wiegand (with enclosure)

Todd Mildon, J.D. (with enclosure ESRM-20070402B)





After college/school review, send a signed original and 8 copies to FCAS, Box 355850.

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Forest F	Resources	Department or Unit		Date 2 Apr	200
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Changes to Existing					
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Revised Requ	uirements for the Option in	Landsc Ecol & Cn within th	e major in Environmental S	cience & Res M	1amt
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Other Changes					
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roposed Effective Date:					
Quarter: 🜠	Autumn Winter	Spring Summer Ye	ear: 20_ ⁰⁷		
ontact Person		Contact's Phone	Contact's Email		
Michelle Trudeau		206_ 616 _ 1533	michtru@u.washington	edu	

EXPLANATION OF AND RATIONALE FOR PROPOSED CHANGE

For new programs, please include any relevant supporting documentation such as student learning outcomes, projected enrollments, letters of support and departmental handouts. (Use additional pages if necessary).

michtru@u.washington.edu

Students with an interest in the conservation and management of ecological systems at multiple spatial scales may be interested in taking the Landscape Ecology and Conservation option. Landscape ecology is an integrated approach to studying the interaction of physical, biological, and social processes on ecological systems at a wide range of spatial scales. The Landscape Ecology and Conservation option focuses on applied aspects of landscape ecology that create, sustain, and alter biological diversity and integrity. Many of the major drivers of ecological change operate at relatively coarse spatials scales. Climate change, land-use practices, invasive species, emerging diseases and pathogens, and pollution operate at local, regional, and global scales to affect ecological systems. The option offers students postgraduate opportunities in conservation, land-use planning, natural resource management, and ecological research. Some examples of the types of groups that have interests in landscape ecology include Environmental NGO's (e.g., The Nature Conservancy, The World Wildlife Fund), local land trusts, timber and mining companies, state wildlife and natural resource agencies, the US Forest Service, the US Fish and Wildlife Service, the US Bureau of Land Management, The US Environmental Protection Agency, environmental consulting firms, and county planning offices. The option will also prepare students for graduate work in ecology, conservation biology, natural resources, and land-use planning.

New option.	sections/paragraphs t	hat would be changed if you	0000
Catalogue Copy as currently written. or otherwise highlight any deletions. New option.			equest is approved. Please c
ROPOSED CATALOG COPY			
	exact wording as you wish to		
requirements of ESRM will remain the	th a separate, expanded version (shown in the printed catalog	g. Please underline or other
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st be at the 400 to	or 400-level courses from with:		
stricted Electives (35 credits): 300- o st be at the 400 level. To receive th source Management (32 credits mini ; ESRM 465; ESRM 470.	ie Landscape Ecology and Con	servation Option in Fourier	ources. 15 of the 35 credit
source Management (32 credits mini; ESRM 465; ESRM 470.	must complete:	ESRM 350; ESRM 425; E	imental Science and SRM 420, Ed
e also attached option proposal from	our curriculum committee)		
ATURES (required)			
Program Director			
-			Date
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Jan Bucley			Date
5. B we Bace Committee + 10 (1)	1 4		Pate 4/4/07
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ESRM Option Proposal in Landscape Ecology and Conservation

1. Proposed Option Title

Landscape Ecology and Conservation

2. Brief rationale for the option

Students with an interest in the conservation and management of ecological systems at multiple spatial scales may be interested in taking the Landscape Ecology and Conservation option. Landscape ecology is an integrated approach to studying the interaction of physical, biological, and social processes on ecological systems at a wide range of spatial scales. The Landscape Ecology and Conservation option focuses on applied aspects of landscape ecology that create, sustain, and alter biological diversity and integrity. Many of the major drivers of ecological change operate at relatively coarse spatial scales. Climate change, land-use practices, invasive species, emerging diseases and pathogens, and pollution operate at local, regional, and global scales to affect ecological systems. The option offers students postgraduate opportunities in conservation, land-use planning, natural resource management, and ecological research. Some examples of the types of groups that have interests in landscape ecology include Environmental NGO's (e.g., The Nature Conservancy, The World Wildlife Fund), local land trusts, timber and mining companies, state wildlife and natural resource agencies, the US Forest Service, the US Fish and Wildlife Service, the US Bureau of Land Management, The US Environmental Protection Agency, environmental consulting firms, and county planning offices. The option will also prepare students for graduate work in ecology, conservation biology, natural resources,

3. Faculty Lead/Advisor

Josh Lawler

4. Affiliated Faculty and roles of each

All affiliated faculty will contribute to the option through teaching of the required and or elective courses listed below. In addition, each member will potentially serve as an advisor to students wishing to complete senior theses. Each year two or more faculty will also organize and conduct the capstone seminar course (see capstone description below). Jon Bakker

Restoration Ecology, Disturbance Ecology Gordon Bradley Land-use Planning, Conservation Planning Jerry Franklin Landscape Ecology, Forest Management, Forest Ecology John Marzluff Landscape Ecology, Animal Behavior, Wildlife Ecology Monika Moskal Remote Sensing, Physical Geography, Spatial Analysis David Peterson Fire Ecology, Climate Change, Mountain Ecology Christian Torgersen Landscape Ecology, Aquatic Ecology, Remote Sensing Kristiina Vogt Ecosystem management, Conservation

5. Specific ESRM courses required for the option. Required courses (32 credits)

ESRM 350 Wildlife Biology and Conservation (5)

ESRM 425 Ecosystem Management (5)

ESRM 427 Integrated Management of Forest Landscapes in a Changing World (3)

ESRM 430 Aerial Photos/Remote Sensing Natural Resources (3)

ESRM 441 Landscape Ecology (5)

ESRM 459 Wildlife Conservation in NW Ecosystems (3)

ESRM 465 Economics of Conservation (3)

ESRM 470 Natural Resource Policy and Planning (5)

Additional Suggested Electives

BIOL 356 Foundations in Ecology (3)

BIOL 470 Biogeography (4)

BIOL 472 Community Ecology (4)

BIOL 476 Conservation Biology (5)

ESRM 315 Natural Resource Issues: Old-Growth and Forest Management (5)

ESRM 328 Forestry-Fisheries Interactions (4)

ESRM 415 Biology, Ecology, and Management of Plant Invasions (5)

ESRM 420 Wildland Fire Management (5)

ESRM 426 Wildland Hydrology (4)

ESRM 450 Wildlife Ecology and Conservation (5)

GEOG 205 Introduction to the Physical Sciences and the Environment (5)

HSTAA 221 Environmental History of the U.S.

PHIL 243 Introduction to Environmental Ethics (5)

PHIL 417 Advanced Topics in Environmental Philosophy (5)

QSCI 210 Introduction to Environmental Modeling (5)

6. Identify when each required course will be taught and by whom.

Instructors and Terms

ESRM 350 Manuwal, W
ESRM 425 Franklin, A
ESRM 450 Manual, W
ESRM 450 Manual, W
ESRM 450 Manual, W
ESRM 450 Manual, W

ESRM 425 Franklin, A
ESRM 427 Franklin, Sp
ESRM 430 Moskal and Schreuder, Sp
ESRM 430 Moskal and Schreuder, Sp
ESRM 459 Marzluff, Manuwal, Moskal, Sp
ESRM 465 Perez-Garcia, Sp
ESRM 470 Bradley and Ryan, A

7. Describe how the required capstone experience will be designed and administered.

The capstone experience will consist of two options. The first option is to complete a senior thesis on a topic mutually agreed upon by the student and a chosen faculty thesis advisor. The thesis option allows a student to take an in-depth look at a specific aspect of landscape ecology, conservation, or management. The second option will be a special seminar course in which students develop a conservation plan for a region or a specific piece of land. In conjunction with a state agency, land-trust, NGO, or a private landowner, the affiliated faculty will select an area in which students will develop a conservation or management plan. The planning process may include any of the following steps depending on the goals and the scope of the project.

Collecting spatial data
Processing spatial data
Surveying stakeholders
Taking a biological inventory
Identifying conservation targets

Developing a database Spatial analyses Optimization analyses Develop alternative management plans Impact assessments

College of Forest Resources March 26, 2007 Faculty Meeting ESRM Option Proposal in Restoration Ecology and Environmental Horticulture

Risk assessments Population modeling

Cost estimation

The seminar will involve group discussions, field trips, and computer-lab sessions. The nature of the seminar will vary from year to year depending on the specific project undertaken. For example, a regional planning project might involve more discussion and lab time and the development of a site-specific forest management plan might involve several field trips and meetings with local stakeholders. Each year, two or more affiliated faculty will be responsible for developing and executing the capstone seminar. This responsibility will rotate through the affiliated faculty. All affiliated faculty will potentially serve as thesis advisors for students selecting the thesis option.

8. Suggested review and evaluation criteria for the option

The review and evaluation of the option will involve student surveys, faculty evaluations, and an annual meeting of the affiliated faculty. The surveys and evaluations will be used to gage the utility of the required and suggested courses, the value of the capstone experience, and to gather any useful suggestions for making changes in the option. As the option matures, the annual meeting and evaluation will be reduced to a biannual meeting.

Environmental Science and Resource Management

Option in Landscape Ecology and Conservation (ESRM-20070402D)

Tri-Campus Review Comments:

Comment by David Fluharty made 4/23/2007 10:33:27 PM

This seems like a very postive direction for Forest Sciences. It would help to know what this programs displaces. The course sequencing is not spelled out but that allows flexibility.

While it may not be essential for the evaluation, it would be useful to know what employment track this degree would position students to follow and how this degree would feed into further academic studies should they be indicated.

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Last of 7 messages
Date: Fri, 13 Jul 2007 11:15:43 -0700
From: Marcia Killien <killien@u.washington.edu>
To: uwcr@u.washington.edu
Cc: Robert Corbett <rcorbett@u.washington.edu>,
    Marcia Killien <killien@u.washington.edu>
Subject: FCTCP reviews for ESRM-20070402B/C/D - 2nd Attempt: FCTCP review
A subcommittee of FCTCP has reviewed these additional responses to comments on
the proposals for 1) ESRM-20070402B/C/D (new options in
Sustainable Forest Management, Wildlife Conservation, and Landscape Ecology and
Conservation) within the College of Forest Resources major in Environmental
Science and Resource Management. Thank you for forwarding them to us; we concur
that the proposals are now ready to be forwarded to the President's office for
approval.
---- Original Message ---- From: <uwcr@u.washington.edu>
To: <Killien@u.washington.edu>
Sent: Tuesday, July 10, 2007 2:10 PM
Subject: FCTCP reviews for ESRM-20070402B/C/D - 2nd Attempt
> Marcia,
>
> Please have FCTCP review the attached 1503's, comments, responses, checklists,
> other supporting documentation for 1) ESRM-20070402B/C/D (new options in
> Sustainable Forest Management, Wildlife Conservation, and Landscape Ecology
> and Conservation) within the College of Forest Resources major in
> Environmental Science and Resource Management.
> The College of Forest Resources has supplied responses per your request.
> Please let me know if you have any further questions.
>
> Jennifer
> UW Curriculum Office, Box 355850
                                   (206) 543-5938
> http://depts.washington.edu/uwcr/
> New Course and Course Change forms are available on the Curriculum Office
> web site. Download them to your IBM computer and you can fill them out in
> Microsoft Word.
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UNIVERSITY CAMPUSES UNDERGRADUATE PROGRAM REVIEW PROCEDURES** CHECKLIST

Title of Proposal: Undergraduate option in Landscape Ecology and Conservation (ESRM-20070402D) Proposed by (unit name): Forest Resources Originating Campus: X UW, Seattle UW, Bothell UW, Tacoma I. Phase I. Developed Proposal Review (to be completed by Originating Campus' Academic Program Review body) A. Review Completed by: FCAS Chaired by: George Dillon 04/13/07 Date proposal received by originating campus's review body 04/13/07 Date proposal sent to University Registrar 04/16/07 Date proposal posted & email sent to standard notification list 06/08/07 Date of originating campus's curriculum body approval (Note: this date must be 15 business days or more following date of posting) B. ___1 Number of comments received. Attach the comments and a summary of the consideration and responses thereof: (1-2 paragraphs) II. Phase II. Final Proposal Review (to be completed by FCTCP) A. Review Completed by: __x_ FCTCP subcommittee FCTCP full council Chaired by: M. Killien 6/15/07 Date request for review received from University Registrar 7/9/07 Date of FCTCP report

B. Review

	YES NO
	_x Was notice of proposal posted on UW Website for 15 business days? _x Was notice of proposal sent to standard mailing list 15 business days in advance of academic program review? _x Were comments received by academic program review body? x Was response to comments appropriate? (explain, if necessary) _x Was final proposal reviewed by FCTCP within 14 days of receipt? x Was there adherence to the University Campuses Undergraduate Program Review Process? (explain, if necessary)
	Summary:
	FCTCP notes that the comments made by Professor Fluharty were not addressed; we would benefit from understanding FCAS's criteria for deciding that comments are "not germaine or answered in the original form". We note that typically FCAS or originating units request that the originating unit point out specifically where the issues were addressed in the original proposal or provide some rationale, and wonder why a different procedure followed in these proposals. We recommend that the originating unit be asked to provide a response to the comments and that those comments be forwarded with the proposal for final approval.
	C. Recommendation
	Forward for final approval Forward to Provost because of University issues (Explain)x_ Return to campus council because of insufficient review (Explain).
Ēr	ndorsed by Faculty Senate Executive Committee, 1/10/05, modified 1/31/06; These procedures apply to

^{**}Er new undergraduate degrees, majors, minors (and certificates) and substantive changes to same