



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 Landscape Ecology and Conservation 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,

A handwritten signature in black ink, appearing to read "Mark".

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-20070402D)



UNIVERSITY OF WASHINGTON
**CREATING AND CHANGING UNDERGRADUATE
 ACADEMIC PROGRAMS**

OFFICE USE ONLY
 Control # ESM-20070402 B

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

APR 5 2007

For information about when and how to use this form: <http://depts.washington.edu/uwcr/1503instructions.pdf>

College Forest Resources	Department or Unit n/a	Date 4/2/07
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New Programs

Leading to a Bachelor of _____ in _____ degree.

Leading to a Bachelor of _____ degree with a major in _____.

Leading to a _____ Option within the existing major in _____.

Leading to a minor in _____.

Changes to Existing Programs

New Admission Requirements for the Major in _____ within the Bachelor of _____.

Revised Admission Requirements for the Major in _____ within the Bachelor of _____.

Revised Program Requirements for the Major in _____ within the Bachelor of _____.

Revised Requirements for the Option in Sust Forest Mgmt within the major in Environmental Science & Res Mgmt.

Revised Requirements for the Minor in _____.

Other Changes

Change name of program from _____ to _____.

New or Revised Continuation Policy for _____.

Eliminate program in _____.

Proposed Effective Date:

Quarter: Autumn Winter Spring Summer **Year:** 20 07

Contact Person Michelle Trudeau	Contact's Phone 206 — 616 — 1533	Contact's Email michtru@u.washington.edu
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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).

This option will provide students with the skills necessary to begin careers upon graduation in many environmental science fields, particularly those that are forestry related. Whether managing small, family-owned timberlands, larger corporate or other private lands, or public forestlands, students can acquire the knowledge, skills, and abilities to understand the ecology and biology of forest systems, to manage for environmental services, to conserve and manage habitat, to treat forest fuels, to achieve sustainable harvest, to market and sell forest products, to measure and assess natural resources, and to understand how social, economic, and ecologic forces impact the administration of forests and their resources.

The precursor degree to this option was the Society of American Foresters (SAF) - accredited undergraduate degree in Forest Management. With the movement of the accredited degree to the MFR level, this undergraduate option is also designed to prepare students for entry into the Professional Master's program as well as to prepare them for entry level positions offered by various forest products corporations and management organizations in the private or public sector.

CATALOG COPY

Catalogue Copy as currently written. Include only sections/paragraphs that would be changed if you request is approved. Please cross out or otherwise highlight any deletions.

New Option.

PROPOSED CATALOG COPY

Reflecting requested changes (Include exact wording as you wish it to be shown in the printed catalog. Please underline or otherwise highlight any additions. If needed, attach a separate, expanded version of the changes that might appear in department publications)

All requirements of ESRM will remain the same except:

Restricted Electives (35 credits): 300- or 400-level courses from within the College of Forest Resources. 15 of the 35 credits must be at the 400 level. To receive the Sustainable Forest Management Option in Environmental Science and Resource Management (35 credits) students must complete: ESRM 368; ESRM 461; ESRM 323; ESRM 470; ESRM 430 or CFR 550; ESRM 311 or ESRM 328 or ESRM 350 or ESRM 409 or ESRM 410 or ESRM 425 or ESRM 426 or ESRM 428; ESRM 315 or ESRM 381 or ESRM 420 or ESRM 435 or ESRM 444 or ESRM 455 or ESRM 468; ESRM 320 or ESRM 321 or ESRM 400 or ESRM 403 or ESRM 427 or ESRM 465.

(See also attached option proposal from our curriculum committee.)

SIGNATURES (required)

Chair/Program Director <i>Graham Bonville</i>	Date <i>4/4/07</i>
Dean <i>B. Bruce Bue</i>	Date <i>4/4/07</i>
College Committee <i>Stephen D. West</i>	Date <i>3 April 2007</i>
Faculty Council on Academic Standards <i>George DeLoraine</i> <i>George DeLoraine</i>	Date <i>4/13/07</i>

UoW 1503 (12/05) REVERSE

CAMPUS

6-8-07



ESRM Option Proposal in Sustainable Forest Management

1. Proposed Option Title

Sustainable Forest Management (SFM)

2. Brief rationale for the option

This option will provide students with the skills necessary to begin careers upon graduation in many environmental science fields, particularly those that are forestry related. Whether managing small, family-owned timberlands, larger corporate or other private lands, or public forestlands, students can acquire the knowledge, skills, and abilities to understand the ecology and biology of forest systems, to manage for environmental services, to conserve and manage habitat, to treat forest fuels, to achieve sustainable harvest, to market and sell forest products, to measure and assess natural resources, and to understand how social, economic, and ecologic forces impact the administration of forests and their resources.

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3. Faculty Lead/Advisor

Eric Turnblom

4. Affiliated Faculty and roles of each

Gordon Bradley – Forest Land Use Planning

Frank Greulich – Management Science

Ivan Eastin – Forest Products Marketing

John Perez-Garcia – Forest Economics

Monika Moskal – Precision Forestry and Remote Sensing

Rob Harrison – Soil Science

Darlene Zabowski – Soil Science

Jerry Franklin – Forest Ecosystems

Peter Schiess – Forest Engineering

David Ford – Ecology and Silviculture

Greg Ettl – Ecology and Silviculture

Eric Turnblom – Mensuration and Silviculture

5. Specific ESRM courses required for the option.

Students electing the SFM option are required to take a basic soils course. This requirement can be met either by taking ESRM 210 as their choice among the five alternatives in satisfying their Natural World credits in the ESRM Disciplinary-based core, or by taking ESRM 311 (listed under the Forest Ecology and Biology electives category). The SFM option further consists of a limited set of required courses comprised of one from each of the four professional areas identified in Standard II of the SAF Accreditation Standards. In addition to the 19 credits of these four required courses, students must complete at least one other course (courses with

asterisk [*] strongly recommended) in each professional area and complete a total of 35 credits from the list. Finally, students are strongly encouraged to avail themselves of the many paid summer internship opportunities, for which credit can also be earned (ESRM 399), working with various forestry and forest products corporations and management organizations such as Green Diamond Resource Company, Longview Fibre Company, Washington Department of Natural Resources, the U.S. Forest Service, Bureau of Land Management, and other environmental and non-governmental agencies.

Forest Resources Measurement (* = strongly recommended course)

Required: **ESRM 368 (4) Forest Resources Measurements**

Other Courses: ESRM 430 (3) Aerial Photos/Remote Sensing *
ESRM 550 (3) Geospatial Tools for Precision Forestry

Forest Ecology and Biology (* = strongly recommended course)

Required: **ESRM 323 (5) Practical Silviculture**

Other Courses: ESRM 311 (3) Soils and Land Use (one of ESRM 210 or 311 required)
ESRM 328 (4) Forestry-Fisheries Interactions
ESRM 350 (5) Wildlife Biology and Conservation
ESRM 409 (5) Soil Ecology
ESRM 410 (5) Forest Soils and Site Productivity
ESRM 425 (5) Ecosystem Management
ESRM 426 (4) Wildland Hydrology *
ESRM 428 (5) Principles of Silviculture and their Application

Forest Resources Management (* = strongly recommended course)

Required: **ESRM 461 (5) Forest Management and Economics**

Other Courses: ESRM 315 (5) Old Growth and Forest Management
ESRM 381 (3) Management of Wildland Recreation and Amenities
ESRM 420 (5) Wildland Fire Management
ESRM 435 (3) Forest Entomology
ESRM 444 (5) Forest Ecosystems Protection: Insects and Diseases
ESRM 455 (1) Wildlife Seminar
ESRM 468 (5) Forest Operations *

Forest Resources Policy, Economics, and Administration (* = strongly recommended course)

Required: **ESRM 470 (5) Natural Resource Policy and Planning**

Other Courses: ESRM 320 (5) Marketing and Human Resources
ESRM 321 (5) Finance and Accounting
ESRM 400 (3) Natural Resource Conflict Management *
ESRM 403 (3) Forest and Economic Development
ESRM 427 (3) Integrated Management of Forest Landscapes
ESRM 465 (3) Economics of Conservation

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

ESRM 368 – W – Turnblom
ESRM 323 – Sp – Turnblom
ESRM 461 – W – Greulich
ESRM 470 – A – Bradley, Ryan

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

The capstone will be designed to give student teams experience in developing a forest management plan to meet a particular set of objectives on a particular forestland parcel. The objectives will be assigned by faculty to each team, not team or student generated, and will be multifaceted, encompassing the many aspects of modern forest and ecosystem management including managing for environmental services, accelerating structural development in stands, treating fuels, minimizing runoff, maximizing timber growth, marketing potential products or product mixtures, etc., and will involve optimizing some combination of these. Logical choices for forestland parcels to be used are Pack Forest, Lee Memorial Forest, or perhaps the Thompson Research Site, or ONRC and surrounding area. It is foreseen that expansion to other sites will be feasible, even desirable, as time goes on. Opportunities for the involvement of other CFR stakeholders will be pursued as well, for example, working with Washington DNR, Green Diamond Resources Co., Campbell Group, Longview Fiber, etc.

The capstone experience will be administered by five of the SFM affiliated faculty members, one serving as lead or coordinator of the capstone projects / activities, the remaining four providing resources and expertise to students when desired or required as the project activities unfold or evolve. Capstone team membership will represent expertise from all four aforementioned SAF professional subject matter categories.

Given the scope of the capstone project, its integrative nature, travel time to / from the project site, and scheduling group meetings, it will be conducted over the winter and spring quarters of the senior year. For example, two credits in winter quarter may be used for introduction, preparation, planning, reviewing forest practices, and gathering of auxiliary data, followed by eight credits in spring for collecting additional measurements, examining alternative silvicultural treatments, regimes, systems, and their implementation through operations, and the execution and writing of the management plan report itself. The capstone course should have a designated time in the course schedule of four hours in a single block and the meeting place should have tables, computers, printers, and other standard office supplies to provide for the unification of space, time, and action – a truly integrated learning and teaching environment.

8. Suggested review and evaluation criteria for the option

We intend to review the option on a three-year timetable, evaluating growth over each period and using an exit evaluation at the conclusion of the capstone project to judge quality of the program. We intend to have at least 10 students per upper division class (ideally 10 juniors and 10 seniors) as a minimum to continue the option after the third review period.

Environmental Science and Resource Management

Option in Sustainable Forest Management (ESRM-20070402B)

Tri-Campus Review Comments:

Comment by David Fluharty made 4/23/2007 10:48:49 PM

I do not see any mention of where students would be provided an understanding of sustainable forest management policy. Without knowing the relevant laws and processes at state and national levels, student will not be able to function fully.

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 Sustainable Forest
Management (ESRM-20070402B)

Proposed by (unit name): Forest Resources

Originating Campus:

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:

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

- Was notice of proposal posted on UW Website for 15 business days?
 Was notice of proposal sent to standard mailing list 15 business days in advance of academic program review?
 Were comments received by academic program review body?
 Was response to comments appropriate? (explain, if necessary)
 Was final proposal reviewed by FCTCP within 14 days of receipt?
 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 germane 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)
 Return to campus council because of insufficient review (Explain).

**Endorsed by Faculty Senate Executive Committee, 1/10/05, modified 1/31/06; These procedures apply to new undergraduate degrees, majors, minors (and certificates) and substantive changes to same