



UNIVERSITY OF WASHINGTON

OFFICE OF THE PRESIDENT

Mark A. Emmert, President

April 20, 2007

Dean B. Bruce Bare
College of Forest Resources
Box 352100

Dear Bruce:

Based on the recommendation of its Subcommittee on Admissions and Programs, the Faculty Council on Academic Standards has recommended approval of the revised requirements for the Bachelor of Science in Forest Resources degree in Environmental Science and Resource Management. A copy of the change is attached.

I am writing to inform you that the College of Forest Resources is authorized to specify these requirements beginning autumn quarter 2007.

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-20070402A)



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

OFFICE USE ONLY
 Control #
ESRM-20070402A

APR 5 2007

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

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 |
|-----------------------------|---------------------------|----------------|

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 Env Sci Res Mgt within the Bachelor of Science in Forest Res.

Revised Requirements for the Option in _____ within the major in _____.

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 |
|------------------------------------|-------------------------------------|---|

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).

The College faculty voted to revise the ESRM curriculum as outlined here in response to student exit surveys, focus groups, and faculty discussions about the quality of the program and desired learning outcomes.

First of all, the core courses, ESRM 301, 302 and 303 were set across the gradient from urban to wildland, which was pedagogically and theoretically challenging. So, our new core (ESRM 200 and 201) is disciplinary based, with one course on ecology and one on social science/policy. We also added another core course, ESRM 300, which focuses further on sustainability while helping students developing academic and career plans. Next, we felt that students would benefit from a capstone experience, which we kept flexible for our different areas of study. It includes a thesis option. Some other changes are: adding an economics course (a key element of sustainability); adding a COM 202 course alternative (due to difficulties registering for the COM 220 course); and adding other environmentally-related course options to the ESRM 210 requirement. Lastly, on a separate form, we are proposing four new options within the major that reflect the College's areas of expertise. There has been a good amount of student demand in the previous 'pathway' areas, so having transcripted options was the next logical step. The new options will not be required, so a student can still design 35 credits of their major to fit their specific interests.

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.

General Education Requirements (~~65~~-66 credits)

Written Communication (12 credits): 5 credits English composition (ENGL 131 preferred); minimum 7 additional credits of writing-intensive coursework to include T C 231; ~~and T C 333 (or equivalent)~~.

Quantitative and Symbolic Reasoning (20 credits): Q SCI 291, Q SCI 292, Q SCI 381; ESRM 250.

Natural World (~~23-24~~ credits): BIOL 161 and BIOL 162, or BIOL 180 and BIOL 200; CHEM 120 and CHEM 220, or CHEM 142 and CHEM 152; ESC 210 ~~or ESS 311~~.

Visual, Literary, & Performing Arts (VLPA) (10 credits): COM 220; 5 additional credits from the University VLPA list.

Individuals & Societies (I&S): 10 credits required, all of which are satisfied by core courses shown below.

Major Requirements (~~65~~ credits)

Core Courses (20 credits): ~~ESRM 301, ESRM 302, ESRM 303~~, ESRM 304.

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. ~~See College Web site for possible pathways.~~

Free electives: As needed to bring minimum total to 180 credits.

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)

General Education Requirements (~~66-67~~ credits)

Written Communication (12 credits): 5 credits English composition (ENGL 131 preferred); TC 231; and 4 additional credits, which are satisfied by core courses shown below.

Quantitative and Symbolic Reasoning (20 credits): Q SCI 291, Q SCI 292, Q SCI 381; ESRM 250.

Natural World (~~24-25~~ credits): BIOL 161 and BIOL 162, or BIOL 180 and BIOL 200; CHEM 120 and CHEM 220, or CHEM 142 and CHEM 152; ESRM 210 or ESS 210 or ESS/OCEAN 230 or ESS 201 or ATM S 211.

Visual, Literary, & Performing Arts (VLPA) (10 credits): COM 220 or COM 202; 5 additional credits from the University VLPA list.

Individuals & Societies (10 credits): ENIVR/ECON 235 or ECON 200 or 201; and 5 additional credits, which are satisfied by core courses shown below.

Major Requirements (~~62~~ credits)

Core Courses (17 credits): ESRM 200, ESRM 201, ESRM 300, ESRM 304.

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. Four Options are also available within these 35 credits.

Capstone (10 credits): ESRM 462 and 463 and 464 OR ESRM 494 and 496 OR ESRM 494 and 495.

Free electives: As needed to bring minimum total to 180 credits.

(See also attached curriculum handout for students.)

SIGNATURES (required)

| | |
|---|----------------------|
| Chair/Program Director <i>Gavan Smalley</i> | Date 4/4/07 |
| Dean <i>B. Bruce Pace</i> | Date 4/4/07 |
| College Committee <i>Stephen D. Went</i> | Date 3 April 2007 |
| Faculty Council on Academic Standards <i>Gene Zill</i> | Date 4/13/07 |

ENVIRONMENTAL SCIENCE AND RESOURCE MANAGEMENT MAJOR

BS IN FOREST RESOURCES

| COURSE | CR | TITLE and notes | EXPECTED QTR |
|--------|----|-----------------|--------------|
|--------|----|-----------------|--------------|

WRITING (8 CREDITS)

| | | | |
|---------------|-----|---|----------|
| ___ ENGL COMP | (5) | Any Composition Course _____ | A/W/Sp/S |
| ___ TC 231 | (3) | Technical Writing <i>prereq Composition</i> | A/W/Sp/S |

AREAS OF KNOWLEDGE: VLPA, I&S (15 CREDITS)

| | | | |
|--------------------|-----|--|----------|
| ___ COM 202 or 220 | (5) | Communication Theory/Public Speaking | A/W/Sp/S |
| ___ ANY VLPA | (5) | Any UW VLPA Course _____ | A/W/Sp/S |
| ___ Economics | (5) | ENVIR/ECON 235 or ECON 200 or ECON 201 | varies |

QUANTITATIVE & SYMBOLIC REASONING (20 CREDITS)

| | | | |
|---------------------------|-----|--|-----------|
| ___ QSCI 291 ¹ | (5) | Analysis for Biologists I <i>prereq Math 120</i> | A/W/S |
| ___ QSCI 292 ¹ | (5) | Analysis for Biologists II <i>prereq QSCI 291</i> | W/Sp/S |
| ___ QSCI 381 ² | (5) | Intro to Probability/Statistics <i>prereq Math 120</i> | A/W/Sp/S |
| ___ ESRM 250 | (5) | Introduction to Geographic Info. Sys. | A/W or Sp |

AREAS OF KNOWLEDGE: NW (24-25 CREDITS)

| | | | |
|---------------------------|-------|--|--------|
| ___ BIOL 161 ³ | (5) | General Biology I | A |
| ___ BIOL 162 ³ | (5) | General Biology II <i>first quarter in BIOL series</i> | W |
| ___ CHEM 120 ⁴ | (5) | Principles of Chemistry I | A/S |
| ___ CHEM 220 ⁴ | (5) | Principles of Chemistry II <i>prereq CHEM 120 or 142</i> | W |
| ___ Earth Science | (4-5) | Choose one: ESRM 210, ESS 210, ESS/OCEAN 230, ESS 201 or ATM S 211 | varies |

CORE COURSES (27 CREDITS):

| | | | |
|--------------|----------|--|----|
| ___ ESRM 200 | (5) | Society and Sustainable Environments | SP |
| ___ ESRM 201 | (5) | Sustaining Pacific NW Ecosystems | A |
| ___ ESRM 300 | (2) | Principals of Sustainability <i>prereq ESRM 200, 201</i> | W |
| ___ ESRM 304 | (5) | Environmental/Resource Assess. <i>prereq QSCI 381</i> | A |
| ___ Capstone | (10 crs) | Choose one: ESRM 494 & 495 or ESRM 494 & 496 or ESRM 462-464 | |

UPPER-LEVEL RESTRICTED ELECTIVES FROM CFR, ESRM AND PSE (35 CREDITS): (QSCI BY PETITION)

Transcripted options: Landscape Ecology and Conservation, Wildlife Conservation, Sustainable Forest Management, Restoration Ecology and Environmental Horticulture

| 400 level Courses (min. 15 credits) | Cr. | 300 or 400 level courses (max 20 crs) | Cr. |
|-------------------------------------|-----|---------------------------------------|-----|
| _____ | ___ | _____ | ___ |
| _____ | ___ | _____ | ___ |
| _____ | ___ | _____ | ___ |
| _____ | ___ | _____ | ___ |

FREE ELECTIVES (41+ TO TOTAL 180 CREDITS FOR DEGREE) Student Choice

For Advising Contact:

Office of Student and Academic Services
Anderson Hall
Room 116/130
206-543-7081
cfradv@u.washington.edu
www.cfr.washington.edu/Acad/studserv.html