College of Natural Resources

Proposed Catalog Changes

Effective Term (unless otherwise noted) = Summer 2016

NATURAL RESOURCES AND SOCIETY

1. Reactivate and Change the following course

   CSSNRS 565 Advanced Instructional Strategies in Environmental Education Science Communication (3 cr)
   Expand on student knowledge of the components of lesson planning (thematic statements, goals, performance objectives, assessment, and state standards) and take lesson planning to a more sophisticated level, to introduce forms of authentic assessment, to increase student familiarity of the variety and quality of Env. Ed. curricula, and to explore various theories on learning and student development, to understand how they relate to lesson planning and teaching students.

   Examines the flow of scientific information between experts and non-experts, with emphasis on educational settings. Project-based and includes practice in digital storytelling, documentary film, blogs, podcasts, public talks, and field experiences. McCall Field Campus. (Spring Only)

   Available via distance: No
   Geographical Area Availability: McCall Field Campus
   Rationale: This course is dormant and the department wants to reactivate it, with a new focus.

   Science communication was originally included as a component of Advanced Field Ecology Course Design (CSS566) which is being dropped. Over time, the course design aspect of this class has diminished while the science communication component has become more prominent. We plan to break the course into two components – a natural history / winter ecology component and a science communication component. The ecology components will be moved to CSS 564, proposed to be renamed to NRS 564 Place-based Ecology II.

   These changes do not require additional work for faculty or staff.

2. Change the name of the Minor in Conservation Social Sciences

   Conservation Social Sciences Minor Natural Resource Conservation Minor
   Note: This minor may not be earned by students in an existing degree program in the Department of Natural Resources and Society.

   One of the following (3 cr):
   CSS 235 Society and Natural Resources (3 cr)
   or For 235
   CSS 287 Foundations of Conservation Leadership and Management (3 cr)

   One of the following (3 cr):
   CSS 364 Politics of the Environment (3 cr)
   CSS 462 Natural Resource Policy (3 cr)

   Electives from the following (12 cr)
   CSS 383 Natural Resource and Ecosystem Service Economics (3 cr)
   CSS 385 Conservation Management and Planning I (4 cr)
   CSS 387 Environmental Communication Skills (3 cr)
CSS 475  Conservation Management and Planning II (4 cr)
CSS 486  Public Involvement in Natural Resource Management (3 cr)

Courses to total 18 credits for this minor

Financial Impact: None

Rationale: This is a request for a name change for an existing minor: Conservation Social Sciences that was created for students outside the department. It was created when the department, and the degree, were titled "Conservation Social Sciences".

We desire to bring the minor inline with the change of the degree to Natural Resource Conservation, and the department to Natural Resources and Society.

The change in the content adapts to changes in the course offerings and better meets employer and stakeholder needs thus making our students more employable. Simplifies the structure of the minor from four bins to three.

3. Discontinue the undergraduate Fire Ecology and Management Certificate

Fire Ecology, Management and Technology Undergraduate and Graduate Academic Certificate

Note: A grade of 'B' or higher is required in all coursework for this academic certificate.

Fire Ecology Course Group (3 cr):
For 326  Fire Ecology and Management (3 cr)
For 426  Global Fire Ecology and Management (3 cr)
For 526  Fire Ecology (3 cr)

Ecology Course Group (2-4 cr):
For 330  Forest Soil and Canopy Processes (4 cr)
For 531  Invasion Biology (3 cr)
REM 429  Landscape Ecology (3 cr)
REM 440  Wildland Restoration Ecology (3 cr)
REM 459  Rangeland Ecology (2 cr)
REM 460  Integrating GIS and Field Studies in Rangelands (2 cr)

Fuels and Fuels Management Course Group (2-3 cr):
For 427  Prescribed Burning Lab (3 cr)
For 433  Fire and Fuel Modeling (2 cr)
For 450  Fire Behavior (2 cr)
For 451  Fuels Inventory and Management (3 cr)

Applied Tools and Analysis Course Group (3 cr):
For 375  Introduction to Spatial Analysis for Natural Resource Management (3 cr)
For 435  Remote Sensing of Fire (3 cr)
or For 535
For 472  Remote Sensing of the Environment (4 cr)
or REM 472
For 570  Advanced Remote Sensing Measurement Methods (3 cr)
For 572  Spatial and Biophysical Modeling (3 cr)
Geog 475  Intermediate GIS (3 cr)
REM 407  GIS Application in Fire Ecology and Management (2 cr)

Management, Planning and Policy Course Group (2-4 cr):
CSS 490  Wilderness and Protected Area Management (3 cr)
CSS 573  Planning & Decision Making for Watershed Management (3 cr)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>For 424</td>
<td>Forest Dynamics and Management</td>
<td>4 cr</td>
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<tr>
<td>For 430</td>
<td>Forest Operations</td>
<td>3 cr</td>
</tr>
<tr>
<td>For 454</td>
<td>Air Quality, Pollution, and Smoke</td>
<td>3 cr</td>
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<tr>
<td>For 462</td>
<td>Watershed Science and Management</td>
<td>3 cr</td>
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<tr>
<td>For 484</td>
<td>Forest Policy and Administration</td>
<td>2 cr</td>
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<tr>
<td>For 529</td>
<td>Forest Ecosystem Analysis</td>
<td>3 cr</td>
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<tr>
<td>For 585</td>
<td>Natural Resources Policy Analysis</td>
<td>2 cr</td>
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<tr>
<td>REM 456</td>
<td>Integrated Rangeland Management</td>
<td>3 cr</td>
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<tr>
<td>WLF 492</td>
<td>Wildlife Management</td>
<td>4 cr</td>
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Electives to total 15 for the certificate

**Financial Impact:** None

**Rationale:** Following a program and curricular review by an employer’s summit and other stakeholder meetings, the faculty decided to remove the undergraduate certificate in Fire Ecology, Management, and Technology because (1) an 18 cr minor in Fire Ecology and Management exists and (2) a graduate certificate of the same name already exists. These changes will not change faculty workload.