NATURAL RESOURCES AND SOCIETY

1. Make the following curricular changes to the Major in Natural Resource Conservation (B.S.Nat.Resc.Consv.):

Required Course work includes the university requirements (see regulation J-3) and:

- NRS 125 Introduction to Conservation and Natural Resources 3 cr
- NRS 235/FOR 235 Society and Natural Resources 3 cr
- NRS 310 Social Science Methods 4 cr
- NRS 383 Natural Resource and Ecosystem Service Economics 3 cr
- NRS 387 Environmental Communication Skills 3 cr
- ECON 202 Principles of Microeconomics 3 cr
- FOR 375 Introduction to Spatial Analysis for Natural Resource Management 3 cr
- NR 101 Exploring Natural Resources 2 cr
- STAT 251 Statistical Methods 3 cr
- FOR 221/REM 221 Ecology 3 cr

NRS 125 is to be taken simultaneously with NR 101.

One writing course, such as (3 cr):
- ENGL 207 Persuasive Writing 3 cr
- ENGL 208 Personal & Exploratory Writing 3 cr
- ENGL 313 Business Writing 3 cr
- ENGL 316 Environmental Writing 3 cr
- ENGL 317 Technical Writing 3 cr

Ecology and Environment (3 cr):
- FOR 221/REM 221 Ecology 3 cr

One of the following (3-4 cr):
- MATH 143 Pre-calculus Algebra and Analytic Geometry 3 cr
- MATH 160 Survey of Calculus 4 cr
- MATH 170 Analytic Geometry and Calculus I 4 cr

And one of the following emphases:

A. Conservation Planning and Management Emphasis

Students must attend one or two-week long field studies course during summer session. Special fees are required for this and a few other courses. To graduate a student must earn an average GPA 2.30 or higher in all NRS courses.

- NRS 304 Conservation Social Sciences Field Studies 3 cr
- NRS 310 Social Science Methods 4 cr
- NRS 364/POLS 364 Politics of the Environment 3 cr
- NRS 383 Natural Resource and Ecosystem Service Economics 3 cr
- NRS 385 Conservation Management and Planning I 4 cr
- NRS 311 Public Involvement in Natural Resource Management 3 cr
- NRS 462/POLS 462 Natural Resource Policy 3 cr
- NRS 475 Conservation Management and Planning II 4 cr
- NRS 486 Public Involvement in Natural Resource Management 3 cr
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRS 411</td>
<td>Environmental Project Management and Decision Making</td>
<td>4 cr</td>
</tr>
<tr>
<td>NRS 498</td>
<td>Internship</td>
<td>1-16 cr</td>
</tr>
<tr>
<td>PSYC 101</td>
<td>Introduction to Psychology</td>
<td>3 cr</td>
</tr>
<tr>
<td>SOC 101</td>
<td>Introduction to Sociology</td>
<td>3 cr</td>
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**One of the following (4 cr):**

- BIOL 102 Biology and Society 3 cr
- AND
- BIOL 102L Biology and Society Lab 1 cr
- BIOL 115 Cells & the Evolution of Life 3 cr
- AND
- BIOL 115L Cells and the Evolution of Life Laboratory 1 cr

**One of the following (2-4 cr):**

- COMM 101 Fundamentals Public Speaking 2 cr
- OR
- One semester of a foreign language course 3-4 cr

**One of the following (3 cr):**

- ENGL 207 Persuasive Writing 3 cr
- ENGL 208 Personal & Exploratory Writing 3 cr

**One of the following (3 cr):**

- ENGL 313 Business Writing 3 cr
- ENGL 316 Environmental Writing 3 cr
- ENGL 317 Technical Writing 3 cr
- ENGL 322 Environmental Literature and Culture 3 cr

**One of the following (3 cr):**

- ENVS 225 International Environmental Issues 3 cr
- IS 322 International Environmental Organizations 3 cr

**One of the following (3 cr):**

- AGEC 477 Law Ethics and the Environment 3 cr
- ENVS 479 Intro to Environmental Regulations 3 cr
- NRS 386 Social-Ecological Systems 3 cr

**One of the following (3 cr):**

- POLS 101 Introduction to Political Science and American Government 3 cr
- POLS 275 American State and Local Government 3 cr

**One of the following (4 cr):**

- CHEM 101 Introduction to Chemistry I 4 cr
- CHEM 111 Principles of Chemistry I 4 cr
- GEOL 101 Physical Geology 3 cr
- AND
- GEOL 101L Physical Geology Lab 1 cr

**One of the following (36-78 cr):**

- BIOL 314 Ecology and Population Biology 4 cr
- FOR 326 Fire Ecology and Management 3 cr
- NRS 472/ FOR 472 Remote Sensing of the Environment 4 cr
- REM 340 Ethnobotany 3 cr
- REM 440 Wildland Restoration Ecology 3 cr
- REM 429 Landscape Ecology 3 cr
REM 459 Rangeland Ecology
AND
REM 460 Integrating GIS and Field Studies in Rangelands

WLF 314 Ecology of Terrestrial Vertebrates 3 cr
WLF 440 Conservation Biology 3 cr

**Contract Courses (12-18 cr)**

Students must submit a contract for a minimum of 12 credits, completed through prior consultation and approval from the faculty advisor. Courses taken to fulfill major requirements above cannot be double counted for contract courses. All contract courses must be upper division (University of Idaho 3xx, 4xx, or 5xx level courses).

Students may fulfill their contract requirement by completing a University approved minor, certificate, or approved study abroad experience. Students are encouraged to make choices that strengthen their expertise and demonstrate proficiency in an area of professional interest. See the University of Idaho General Catalog for a list of approved minors and certificates (http://www.uidaho.edu/registrar/classes/catalogs).

Two of the following (6 cr):
- NRS 490 Wilderness and Protected Area Management 3 cr
- NRS 493/LAS 493 International Land Preservation and Conservation Systems 3 cr
- LARC 480 The Resilient Landscape 3 cr
- WLF 440 Conservation Biology 3 cr

Two of the following (6 cr):
- ANTH 100 Introduction to Anthropology 3 cr
- PSYC 101 Introduction to Psychology 3 cr
- SOC 101 Introduction to Sociology 3 cr

12 credits from the following,
(If not chosen above) in at least 2 disciplines with at least 2 courses in one discipline:
- AGEC 477 Law, Ethics and the Environment 3 cr
- ANTH 428 Social and Political Organization 3 cr
- BUS 321 Marketing 3 cr
- COMM 410 Conflict Management 3 cr
- NRS 462/POLS 462 Natural Resource Policy 3 cr
- NRS 487 Environmental Education 3 cr
- NRS 490 Wilderness and Protected Area Management 3 cr
- NRS 493/LAS 493 International Land Preservation and Conservation Systems 3 cr
- NRS 496 Monitoring Impacts in Protected Areas and Wilderness 3 cr
- NRS 498 Internship 1-16 cr
- GEOG 313 Global Climate Change 3 cr
- GEOG 360 Population Dynamics and Distribution 3-4 cr - Max 4 cr
- GEOG 455 Societal Resilience and Adaptation to Climate Change 3 cr
- HIST 329 Idaho and the Pacific Northwest 3 cr
- HIST 424 American Environmental History 3 cr
- JAMM 350 Public Relations Writing and Production 3 cr
- JAMM 444 Mass Media and Public Opinion 3 cr
- PHIL 452 Environmental Philosophy 3 cr
- POLS 451 Public Administration 3 cr
- POLS 453 Public Management Techniques 3 cr
- POLS 454 Public Organization Theory 3 cr
- POLS 473 Sustainable Community Development Planning 3 cr
- POLS 480 Politics of Development 3 cr
PSYC 320 Introduction to Social Psychology 3 cr
PSYC 325 Cognitive Psychology 3 cr
SOC 313 Collective Behavior 3 cr
SOC 343 Power, Politics, and Society 3 cr

Courses to total 120 credits for this degree

B. Conservation Science Emphasis

To graduate a student must earn an average GPA of 2.00 or higher in all courses taught in the College of Natural Resources and complete an approved professional work experience in natural resources.

NRS 310 Social Science Methods 4 cr

One writing course, such as (3 cr):
ENGL 207 Persuasive Writing 3 cr
ENGL 208 Personal & Exploratory Writing 3 cr
ENGL 313 Business Writing 3 cr
ENGL 316 Environmental Writing 3 cr
ENGL 317 Technical Writing 3 cr

One of the following (3-4 cr):
NRS 385 Conservation Management and Planning I 4 cr
NRS 475 Conservation Management and Planning II 4 cr
NRS 411 Environmental Project Management and Decision Making 4 cr
NRS 490 Wilderness and Protected Area Management 3 cr

One of the following (3-4 cr):
NRS 364/POLS 364 Politics of the Environment 3 cr
NRS 462/POLS 462 Natural Resource Policy 3 cr

One of the following (4 cr):
CHEM 101 Introduction to Chemistry I 4 cr
CHEM 111 Principles of Chemistry I 4 cr

One of the following (4 cr):
BIOL 114 Organisms and Environments 4 cr
BIOL 115 Cells & the Evolution of Life 3 cr
AND
BIOL 115L Cells and the Evolution of Life Laboratory 1 cr

Natural Resource Science Restricted Electives (33 cr)
At least 15 cr from the following groups must be at the 400-level:

Fishery Science (6 cr):
FISH 314 Fish Ecology 3 cr
FISH 315 Fish Ecology Lab 1 cr
FISH 415 Limnology 4 cr
FISH 418 Fisheries Management 4 cr
FISH 422 Concepts in Aquaculture 4 cr
FISH 424 Fish Health Management 4 cr
FISH 430 Riparian Ecology and Management 3 cr

Fire Ecology and Management (2-3 cr):
FOR 326 Fire Ecology and Management 3 cr
FOR 433 Fire and Fuel Modeling 2 cr
FOR 450 Fire Behavior 2 cr
FOR 454 Air Quality, Pollution, and Smoke 3 cr

Forestry (6 cr):
FOR 273 Forestry Sampling Methods 2 cr
FOR 320 Dendrology 4 cr
FOR 324 Forest Regeneration 3 cr
FOR 330 Forest Soil and Canopy Processes 4 cr
FOR 424 Silviculture Principles and Practices 4 cr
FOR 425 Forest and Soil Nutrient Cycling 3 cr
FOR 430 Forest Operations 3 cr
FOR 431 Low Volume Forest Roads 2 cr
FOR 436 Cable Systems 2 cr
FOR 462 Watershed Science and Management 3 cr
FOR 468 Forest and Plant Pathology 2 cr
FOR 472/REMNRS 472/FOR 472 Remote Sensing of the Environment 4 cr

Renewable Materials (6 cr):
RMAT 321 Properties of Renewable Materials 3 cr
RMAT 436 Biocomposites 3 cr
RMAT 438 Introduction to Lignocellulosic Chemistry 1 cr
RMAT 444 Primary Products Manufacturing 3 cr
RMAT 450 Biomaterials Deterioration and Protection 2 cr
RMAT 491 Biomaterial Product and Process Development Lab 2 cr
RMAT 495 Product Development and Brand Management 3 cr

Rangeland Ecology and Management (6 cr):
REM 341 Systematic Botany 3 cr
REM 410 Principles of Vegetation Measurement 2 cr
REM 411 Wildland Habitat Ecology and Assessment 2 cr
REM 440 Wildland Restoration Ecology 3 cr
REM 452 Western Wildland Landscapes 2 cr
REM 456 Integrated Rangeland Management 3 cr
REM 459 Rangeland Ecology 2 cr
REM 460 Integrating GIS and Field Studies in Rangelands 2 cr
REM 472 Remote Sensing of the Environment 4 cr

Wildlife Science (6 cr):
WLF 314 Ecology of Terrestrial Vertebrates 3 cr
WLF 315 Techniques Laboratory 2 cr
WLF 440 Conservation Biology 3 cr
WLF 448 Fish and Wildlife Population Ecology 4 cr
WLF 482 Ornithology 4 cr
WLF 492 Wildlife Management 4 cr

Courses to total 120 credits for this degree

Available via distance: 50% or more of curricular requirements cannot be completed via distance

Geographical Area: Moscow

Rationale: This suite of curriculum changes are necessary because of a recent shift in the faculty staffing of the NRS department. For some time the NRC curriculum has included courses that cannot be taught by faculty due to retirements and attrition. This curriculum reflects the changing of NRS faculty expertise.
The curriculum will be assessed using student performance in several indicator courses. These courses are NRS 310, NRS 387, NRS 390, NRS 475, and NRS 486. Each of these courses either currently have indicator assignments as part of their design and delivery, or will be revised to include indicator assignments. The results of the assessment will be reported through the annual UI assessment cycle.