REQUIREMENTS FOR CATALOGUE EDITIONS STARTING 2012

RUBENSTEIN SCHOOL OF ENVIRONMENT AND NATURAL RESOURCES
UNIVERSITY OF VERMONT

PROGRAM: Natural Resources Curriculum
OPTION: Integrated Natural Resources

Approved by the Natural Resources Curriculum Faculty Spring 2012

Catalogue Description: Integrated Natural Resources (INR) is a self-designed major. For students who have strong interests in natural resources and the environment, clear academic direction, and the motivation to develop a well-focused, personally meaningful course of study, INR is the right choice. Working closely with a faculty advisor, the student builds on a solid foundation of natural resources courses to create an individualized program that combines course work from disciplines within and outside the School. A total of 120 credits are required for the degree. Required courses (minimum 9 credits): Students elect from a list of approved courses at least one course in each of three areas – biology/ecology; natural resources, social sciences and communications; and quantitative and analytical methods. These courses are in addition to those taken to fulfill RSENR general education requirements. Any course substitution request should be approved prior to the end of the add/drop period for the semester in which the student enrolls in the substitute course.

Degree Requirements:

All students who enroll in the Natural Resources Curriculum must meet the following requirements for graduation:
1. Completion of the RSENR core curriculum courses.
2. Completion of the RSENR general education course requirements.
3. Completion of a minimum of 120 semester hours of courses with a cumulative grade-point average of 2.0 or above.

Option requirements for Integrated Natural Resources:

Required courses (minimum of 9 credits):

Students elect at least one course in each of three areas from a list of approved courses (see next page). The areas are:

1. Biology/ecology
2. NR social sciences & communications
3. Quantitative and analytical methods

Individualized Program of Study: The student develops an individualized program of study that establishes objectives and defines 39 credits of course selection for the last four semesters. Courses must be consistent with objectives established in the program of study. At least 24 credits must have an ENVS, ENSC, FOR, NR, RM or WFB prefix. Up to 6 credits may be below the 100 level. With careful selection of courses, students have developed such concentrations as Environmental Education, Sustainability and Resource Management, Energy and Environmental Management, Environment and Human Health, Spatial Analyses of Natural Resources.

All programs of study must be endorsed by the advisor, and then approved by the faculty. If not approved, the student may not continue in the INR option and must seek another major. The program of study is to be completed by the end of the sophomore year (60 credits). Transfer students with more than 60 credits must have a program of study approved as part of the transfer application. It is expected that these students will be active in the program for at least two years (four semesters) after transferring into the INR option.

Advising Tracks: To assist students in designing an Individualized Program of Study within the Integrated Natural Resources option, faculty advisors have identified clusters of courses that are particularly appropriate for various areas of emphasis. These suggestions are intended to facilitate the planning process and to help the student prepare a Program of Study that will be readily approved by the faculty review committee. These can be obtained from Marcie Newland, the Program Administrative Support Person in Room 304 Aiken.
INTEGRATED NATURAL RESOURCES OPTION
Courses That Can Fulfill “Required Courses” Requirement

These courses are IN ADDITION TO the RSENR Core and General Education course work and may not be double counted for these purposes.

1. **Biology/ecology**
   Courses that may be used to meet the requirements in this area include courses such as:
   - BIOL 1 or 2 Principles of Biology
   - BCOR 11 or 12 Exploring Biology
   - BOT 4 Introduction to Botany
   - FOR 21 Dendrology
   - FOR 235 Forest Ecosystem Health
   - NR 260 Wetlands Ecology
   - NR 280 Stream Ecology
   - WFB 130 Ichthyology
   - WFB 232 Ichthyology
   - WFB 279 Marine Ecology

   See Resource Ecology Option Electives for other possible courses.

2. **Natural resources social sciences and communications**
   Courses that may be used to meet the requirements in this area include courses such as:
   - CDAE 61 Principles of Community Development
   - CDAE 002 World Food, Population, & Development
   - ENVS 001 Introduction to Environmental Studies
   - ENVS 002 International Environmental Studies
   - ENVS 293 Environmental Law
   - ENVS 294 Environmental Education
   - NR 141 Ecological Economics
   - NR 153 Introduction to Environmental Policy
   - NR 235 Legal Aspects of Environmental Planning
   - NR 254 Advanced Natural Resource Policy
   - NR 262 International Problems in Natural Resources
   - NR 275 Natural Resource Planning
   - RM 235 Outdoor Recreation Planning
   - RM 255 Environmental Interpretation

   See Resource Planning Content Option Electives for other courses.

3. **Quantitative and analytical methods**
   Courses that may be used to meet the requirements in this area include courses such as:
   - CDAE 101 Computer Aided Drafting and Design
   - CS 16 Programming in MATLAB Engineers & Science
   - CS 21 Computer Programming I
   - NR 25 Measurements and Mapping
   - NR 140 Applied Environmental Statistics (may not double count for Gen Ed requirement)
   - NR 143 Introduction to Geographic Information Systems
   - GEOG 081 Geotechniques
   - GEOG 184 Geographic Info: Concepts and Applications
   - NR/FOR 146 Remote Sensing of Natural Resources

   Other statistics/math courses in addition to General Education requirements

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