

**REQUIREMENTS FOR CATALOGUE EDITIONS STARTING 2017**  
**RUBENSTEIN SCHOOL OF ENVIRONMENT & NATURAL RESOURCES**  
**UNIVERSITY OF VERMONT**

**Approved by the Natural Resources Curriculum Faculty Spring 2017**

**PROGRAM: Natural Resources Curriculum**

**Mission:** Provide an academic foundation & framework that allows students to define & pursue planned & emergent interests according to their personal & professional goals. Our breadth of educational opportunities engages students in building a knowledge & skill set with a concentration in ecological dimensions (Resource Ecology), or social science dimensions (Resource Planning), or an integration of the two dimensions (Integrated Natural Resources) of environment & natural resources.

**OPTION: Resource Planning**

**Learning Outcomes.** Students in Resource Planning will

- Identify & explain conceptual frameworks from the social sciences & ethics as they apply to interpreting human interactions with environment & natural resources
- Identify & describe key processes, structures & functions occurring in a given social-environmental context
- Analyze collective human processes related to the environment/natural resources in depth & at varied scales (e.g. individual, community, institutional, global) using conceptual frameworks from at least one area of the social sciences
- Draw on & synthesize multiple lenses from social science perspectives to interpret & assess a chosen social-environmental context
- Demonstrate skills for gathering & using data appropriate to their chosen area of study, for example, integrating data into persuasive arguments, data gathering & quantitative or qualitative analysis to characterize human interactions with the environment, data mapping for land use design, educational & interpretative tools for outreach

**Catalogue Description:** The Resource Planning curriculum provides fundamental understandings of interactions among individuals, communities, & society with nature, resources, & the environment. It allows students to select courses around individual interests such as natural resource planning & community, policy & economic dimensions of resource planning, or international dimensions of resource planning. A total of 120 credits are required for the degree. Option distribution requirements: PSYS 1 or PSYS 104 or PSYS 130 or PSYS 161; CDAE 2 or ENVS 2; POLS 21 or 41 or 51; SOC 1 or 11; PHIL 010(Ethics) or CDAE 208 or ENVS 178; ANTH 21 or GEOG 50; EC 11 or EC 12 or CDAE 61. 27 additional credits in Option Electives to be chosen from approved list in consultation with student's academic advisor. **Any course substitution request must be approved prior to the end of the add/drop period for the semester in which the student enrolls in the 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.
4. Completion of option requirements for Resource Planning, Resource Ecology, or Integrated Natural Resources.

**Option Distribution Requirements (21-22 credits)**

Credits	Course #	Course Name
3	PSYS 001 <b>or</b> PSYS 104 <b>or</b> PSYS 130 <b>or</b> PSYS 161	General Psychology or Learning, Cognition & Behavior or Social Psychology or Developmental Psychology: Childhood
3 4	CDAE 002 <b>or</b> ENVS 002	World Food, Population, & Development or International Environmental Studies
3	POLS 021 <b>or</b> POLS 041 <b>or</b> POLS 051	American Political System or Intro to Political Theory or Intro International Relations
3	SOC 001 <b>or</b> SOC 011	Introduction to Sociology or Social Problems
3	PHIL 010 <b>or</b> ENVS 178 <b>or</b> CDAE 208/ ANSC 230	Intro to Philosophy: Ethics or Ethics of Eating or Environmental Ethics or Agricultural Policy and Ethics
3	ANTH 021 <b>or</b> GEOG 050	Cultural Anthropology or World Regional Geography
3	ECON 011 <b>or</b> ECON 012 <b>or</b> CDAE 061	Principles of Macroeconomics or Principles of Microeconomics or Principles of Community Development

See next page for Option Electives

**RESOURCE PLANNING OPTION - Approved Option Elective Courses**  
**Take at least 27 credits overall (21 content credits and 6 tools credits)**  
**Courses taken for Option Electives may not be double-counted for distribution requirements**

**Resource Planning – Content Courses (take at least 21 credits)**

*Offered regularly*

ASCI 171/272	Zoos, Exotics, Endangered Species	GEOG 175	Urban Geography
CDAE 102	Sustainable Community Development	HP/HST 201	History on the Land
CDAE 171	Community & Int'l Econ Transform	HP 205	Historic Preservation Law
CDAE 186	Sustain Development Small Island States	NR 102	Water as a Natural Resource
CDAE 208/ASCI 230	Agricultural Policy and Ethics <sup>1</sup>	NR/ENVS 141	Ecological Economics
CDAE 218/SOC 207	Community Organization & Development	NR 153	Introduction to Environmental Policy
CDAE 237	Economics of Sustainability	NR 235	Legal Aspects of Enviro Planning <sup>2</sup>
CDAE 251	Contemp Policy Issues: Comm Devel	NR 254	Adv Natural Resource Policy
EC 133	Economics of Environmental Policy	NR 264	C Ross Env Public Serv Prac <sup>2</sup>
ENVS 154	Traditional Ecological Knowledge	PRT 50	Tourism Planning
ENVS 179	Ecofeminism	PRT 149	Wilderness Educ & Leadership <sup>2</sup>
ENVS 180	Radical Environmentalism	PRT 230	Ecotourism
ENVS 181	Environmental Justice	PRT 235	Outdoor Recreation Planning
ENVS 182	Religion and Ecology	PRT 240	Park and Wilderness Management
ENVS 183	Env Impacts of Consumerism	PRT 255	Environmental Interpretation <sup>2</sup>
ENVS 293	Environmental Law	POLS 130	US Environmental Politics
ENVS 294	Environmental Education <sup>2</sup>	POLS 159	Int'l Environmental Governance
ENVS/HST 167	Global Environmental History	POLS 180	Comparative Envir Pol
ENVS/HST 267	Environmental History Seminar	SOC 121	Sociology of Disasters
GEOG173/ENVS143	Political Ecology	SOC 160	Our Consuming Society

*Courses in catalog but not offered regularly*

ANTH 179	Environmental Anthropology	GEOG 178/GSWS179	Gender, Space & Environment
ENVS 153	Ethnobotany	NR 262	International Problems in NR Mgmt
ENVS 178	Environmental Ethics <sup>1</sup>	NR 265	Environment & Human Behavior
ENVS 184	Sustainable Transportation Planning	NR 275	Natural Resource Planning
ENVS 292	Environmental Conflict Resolution	NR 277	Land Use Policy & Economics
FOR 152	Forest Resource Values	SOC 102	Population, Environment, & Society
GEOG 154	Geography of Development	SOC 203	Adv Enviro Sociology
GEOG 174	Rural Geography	WFB 175	Wildlife and Society

**Resource Planning – Tools Courses (take at least 6 credits)**

*Offered regularly*

BSAD 040	Info Tech & Mgmt (BSAD maj/min)	NR 264	C Ross Env Public Serv Prac <sup>2</sup>
BSAD 141	Mgmt Info Systems (BSAD maj/min)	NR 288	Ecological Design
CDAE 273	Project Development & Planning	PRT 149	Wilderness Educ & Leadership <sup>2</sup>
ENVS 187	Campus Sustainability	PRT 255	Environmental Interpretation <sup>2</sup>
ENVS 294	Environmental Education <sup>2</sup>	PSS/CDAE/NR/ENVS 137	Landscape Design Fundmntls
GEOG 081	Geotechniques	PSS/CDAE/NR/ENVS 238	Ecological Landscape Design
GEOG 184	Geog Info: Concepts & Apps	POLS 181/SOC 100	Fundamentals of Soc Res
NR 143	Intro to Geographic Info Systems	SPCH 031	Argument & Decision
NR/FOR 146	Remote Sensing of Natural Resources	SPCH 051	Persuasion
NR 235	Legal Aspects of Enviro Planning <sup>2</sup>	SPCH 071	Fundamentals of Debate
NR 242	Adv Geospatial Techniques	SPCH 072	Citizen Advocacy & Debate
NR 243	GIS Practicum	STAT 233	Survey Sampling
NR 245	Integrating GIS & Statistics		6 credits of modern foreign language

*Courses in catalog but not offered regularly*

ANTH 290	Methods of Ethnographic Fieldwork	SOC 275	Methods of Data Analysis in Soc Res
NR 25	NR Measurements & Mapping		

<sup>1</sup>These courses may be counted as either distribution requirement or content courses but may not be double-counted.

<sup>2</sup>These courses may be counted as either content or tools courses but may not be double-counted.

**Up to 6 credits of Internship/Independent Study may be requested for approval from NRC program faculty for credit in either category. Submit substitution request in consultation with your advisor and then to Clare Ginger, 308F Aiken.**

**Up to 3 credits of NR 299 Honors may be requested for approval from NRC program faculty for credit in either category. Submit substitution request in consultation with your advisor and then to Clare Ginger, Aiken 308F.**

## **Thematic Directions for the Resource Planning Option in the Natural Resources Curriculum**

Spring 2017

The following are example themes of courses to use in directing students in selecting courses. Students are not required to take these sets of courses. Rather, the themes illustrate ways to group classes to meet areas of interest.

Other courses may be added to any of these themes and other themes may be developed, depending on a student's educational objectives. Alternatively, a student might choose a set of courses from across themes to meet a broader set of educational objectives.

### *Policy and Economic Dimensions of Resource Planning*

NR 153	Introduction to Environmental Policy
NR 141	Ecological Economics
NR 254	Advanced Natural Resource Policy
NR 235	Legal Aspects of Environmental Planning
NR 264	C Ross Env Public Service Practicum
ENVS 293	Environmental Law
CDAE 237	Economics of Sustainability
ECON 133	Economics of Environmental Policy
POLS 130	US Environmental Politics

Tools for this cluster might include argument/persuasion, survey methods, statistical analysis.

### *International Dimensions of Resource Planning*

PRT 230	Ecotourism
WFB 175	Wildlife & Society
ENVS 143/GEOG 173	Political Ecology
ENVS 154	Traditional Ecological Knowledge
ENVS/HST 167	Global Environmental History
ANTH 179	Environmental Anthropology
CDAE 171	Community&Int'l Econ Transform
POLS 159	Int'l Environmental Governance
Courses from a study abroad program	

Tools for this cluster might include foreign language, communications, GIS, environmental education.

### *Natural Resource Planning and Community*

NR 235	Legal Aspects of Environmental Planning
NR 275	Natural Resource Planning
PRT 50	Tourism Planning
PRT 235	Outdoor Recreation Planning
PRT 255	Environmental Interpretation
ENVS 184	Sustainable Transportation Planning
CDAE 102	Sustainable Community Development
GEOG 175	Urban Geography
SOC 121	Sociology of Disasters

Tools for this cluster might include GIS, communications, design tools, survey methods, environmental education.

### **Overall Credit Breakdown for Option in Resource Planning**

RSENR General Education:	23-25 credit hours (includes a 3-credit D1 or D2 course in addition to NR 6 & 207)
RSENR Core Curriculum:	23 credit hours (includes NR 6 & NR 207 as D1 credit)

Option Distribution:	21-22 credit hours
Option Electives:	27 credit hours (21 content/6 tools)

Free Electives: 23-26 credit hours

TOTAL: 120 credit hours