

# Recreation Resource Management

Curriculum Guide – Effective Spring 2011

This major is for students who wish to develop careers in planning or managing the use of recreational land and water. Graduates may become directly involved in recreation resource management and play specialized supporting roles in areas such as planning and public relations. Graduates may also pursue graduate study to facilitate career advancement or develop a foundation for research and teaching.

*Note: Courses below are listed with number of credits, semester course is offered (F = offered fall only; S = offered spring only; F&S = offered fall & spring), and necessary placement exams or prerequisites for the course. “W” denotes a Writing Intensive course*

## A. Communication Skills (7 cr)

- \_\_\_\_\_ WRIT 1301 University Writing (4 cr, F&S, by placement)  
           *or* WRIT 1401 Writing and Academic Inquiry (4 cr, F&S, by placement)
- \_\_\_\_\_ COMM 1101 Introduction to Public Speaking (3 cr, F&S)

## B. Mathematical Thinking (7 cr)

- \_\_\_\_\_ MATH 1031 College Algebra & Probability (3 cr)  
           *or* MATH 1051 Precalculus I (3 cr, F&S, 3 yrs of HS math or placement exam)
- \_\_\_\_\_ ESPM 3012 Statistical Methods for Environmental Scientists and Managers (4 cr, F, 2 yrs HS math)  
           *or* STAT 3011 Introduction to Statistical Analysis (4 cr, S, 2 yrs of HS math)

## C. Physical and Biological Sciences (15 cr)

- \_\_\_\_\_ BIOL 1001 Introductory Biology I: Evolutionary & Ecological Perspectives (4 cr, F&S)  
           *or* BIOL 1009 General Biology (4 cr, F&S, HS chemistry)
- \_\_\_\_\_ BIOL 2022 General Botany (3 cr, F&S, prereq BIOL 1001 or 1009)
- \_\_\_\_\_ CHEM 1015 Intro Chemistry (3 cr, F&S) and CHEM 1017 Intro Chemistry Lab (1 cr, F&S)  
           *or* CHEM 1021 Chemical Principles I (4 cr, F&S, prereq CHEM 1015 or placement exam)
- \_\_\_\_\_ SOIL 2125 Basic Soil Science (4 cr, F&S, prereq CHEM 1015/1017 or CHEM 1021)  
           *or* SOIL 1125 The Soil Resource (4 cr, F&S)

## D. Social Sciences (11-12 cr)

- \_\_\_\_\_ ESPM 3261 Economics & Natural Resources Management (4 cr, F)
- \_\_\_\_\_ PSY 1001 Introduction to Psychology (4 cr, F&S)  
           *or* SOC 1001 Introduction to Sociology (4 cr, F&S)
- \_\_\_\_\_ PSY 3201 Introduction to Social Psychology (4 cr, F&S, prereq PSY 1001)  
           *or* SOC 3711 Principles of Social Organization (3 cr, F&S, prereq SOC 1001)  
           *or* SOC 3411W Organizations and Society (3 cr, F&S, prereq SOC 1001)  
           *or* SOC 3721 Principles of Social Psychology (3 cr, F&S, prereq SOC 1001)

## E. Liberal Education Requirements and Writing Intensive (effective Fall 2010)

	Required Credits	Required Courses in RRM that Fulfill Requirement
<b>Diversified Core</b>		
Arts/Humanities	3	-
Biological Science	4, must include lab or field experience	BIOL 1001 <i>or</i> 1009
Historical Perspective	3	-
Literature	3	-
Mathematical Thinking	3	MATH 1031 <i>or</i> 1051, ESPM 3012 <i>or</i> STAT 3011

Physical Science	4, must include lab or field experience	SOIL 2125(one of two course options), CHEM 1015/1017 <i>or</i> CHEM 1021
Social Sciences	3	ESPM 3261, SOC 1001 <i>or</i> PSY 1001
<b>Designated Themes</b>		
Civic Life & Ethics	3	COMM 1101
Diversity & Social Justice in the US	3	-
The Environment	3	SOIL 2125 <i>or</i> SOIL 1125, ESPM 3261
Global Perspectives	3	SOC 3411W (one of four course options)
Technology & Society	3	FR 3131

### The Writing Intensive requirement

In addition to the first-year writing requirement, you must complete four writing intensive courses. Two of the writing intensive courses must be taken at the upper division level, one of which must be in your major.

### F. Required Professional Core Courses (40 cr)

#### Introductory and general (1 cr)

\_\_\_\_\_ RRM 1001 Orientation and Information Systems (1 cr, F)

#### Resource Assessment (4 cr)

\_\_\_\_\_ FR 3131 Geographic Information Systems (GIS) for Natural Resources (4 cr, F&S)

#### Management of Vegetation, Wildlife, Soil, and Water Resources (13 cr)

\_\_\_\_\_ FR 1101 Dendrology: Identifying Forest Trees and Shrubs (3 cr, F)

\_\_\_\_\_ FR 3104 Forest Ecology (4 cr, F, prereq BIOL 1001 or 1009)

*or* FR 3411 Managing Forest Ecosystems: Silviculture (3, S, prereq FR 3104)

*or* ESPM 3108 Ecology of Managed Systems (3 cr)

\_\_\_\_\_ FR 3114 Hydrology and Watershed Management (3 cr, F, prereq BIOL 1001 or 1009, CHEM 1015/1017)

*or* ESPM 4061W Water Quality and Natural Resources (3 cr, S, prereq ESPM 4061 or EEB 4601 or FR 3114)

\_\_\_\_\_ FW 2001 Introduction to Fisheries, Wildlife, & Conservation Biology (3 cr, F, recommended soph)

*or* ESPM 3101 Conservation of Plant Biodiversity (3 cr, F, prereq BIOL 1001 or 1009)

*or* FW 4101 Principles of Wildlife Management (3 cr, S)

*or* FW 4102 Principles of Conservation Biology (3 cr, S)

#### Policy, Management, and Planning (22 cr)

\_\_\_\_\_ ESPM 3202W Environmental Conflict Management, Leadership and Planning (3 cr, S)

\_\_\_\_\_ ESPM 3245 Sustainable Land Use Planning and Policy (3 cr, F, all lower div RRM reqs)

\_\_\_\_\_ RRM 4232W Managing Recreational Lands (4 cr, S)

\_\_\_\_\_ RRM 5259 Visitor Behavior Analysis (3 cr, F even yrs, RRM major or ENR major)

\_\_\_\_\_ ESPM 3241W Natural Resources & Environmental Policy (3 cr, S)

\_\_\_\_\_ ESPM 4811 Environmental Interpretation (3 cr, S, jr. or sr.)

\_\_\_\_\_ RRM 3101 Park & Protected Area Tourism (3 cr)

**G. Electives (however many necessary to reach 120 credits required for graduation).**

Students may choose these credits from any discipline. The suggested choices of electives to develop effective Subject/Career Options are described below. These Subject/Career Options are not equivalent to minors.

**Subject/Career Options**

The options described below have been developed to suggest coursework to build important subject/career options. Consider the following course options and minors to complete your courses and enhance your educational experience. Course selections must be made in consultation with your faculty advisor.

Heritage Preservation Management  
International protected area management  
Outdoor Recreation Planning  
Protected Area Law and Policy  
Tourism  
Graduate Study Preparation

**Heritage Preservation Management (9-12 cr) Faculty: M. Davenport, I. Schneider**

Students with a particular interest in cultural and heritage preservation within public agencies should select courses from this list, in consultation with their advisor. Students focusing in this area could work with a variety of state, federal or international organizations to manage and plan for heritage preservation.

*Select a minimum of 3 courses from the following list:*

ANTH 3028 Historical Archeology (3 cr, F)  
ANTH 3980/5990 International Heritage Management (3 cr, F)  
ARCH 3641 Introduction to Heritage Preservation (3 cr, F)  
RRM 3201 Introduction to Travel and Tourism (3 cr, S)  
Study abroad course(s)

**International Protected Area Management (9-12 cr) Faculty: M. Davenport, I. Schneider, D. Current, K. Nelson** Students interested in international protected area management should select courses from this list, in consultation with their advisor. Career opportunities include management, administration and development positions for protected areas across the globe.

*Select a minimum of 3 courses from the following list:*

ANTH 3980/5990 International Heritage Management (3 cr)  
ARCH 3641 Introduction to Heritage Preservation (3 cr)  
ESPM 3251 Natural Resources in Sustainable International development (3 cr, F)  
GEOG 3379 Environment and Development in the Third World (3 cr, S)  
Introductory Field Training in Assessment and Biology of Forests (4 cr) (taught at Cloquet Forestry Center in August) Includes FR 2101 Identifying Forest Plants (1 cr, BIOL 1001 or BIOL 1009), FR 2102 Northern Forests Field Ecology (2 cr, BIOL 1001 or BIOL 1009), and FR 2104 Measuring Forest Resources (1 cr)  
RRM 3201 Introduction to Travel and Tourism (3 cr, S)  
RRM 3301 International Tourism (3 cr, S)  
Language course(s) and study abroad course(s)

**Outdoor Recreation Planning** (9-12 cr) *Faculty: M. Davenport, I. Schneider*

This option is for students interested in planning for outdoor recreation areas across landscape levels: county, state and federal. Career opportunities include positions as an outdoor recreation planner, regional planner, or county recreation planner.

*Select a minimum of 3 courses from the following list:*

ESPM 3271 Environmental policy, law and human behavior (3 cr, F)

GEOG 3361W Land use, landscapes and the law (3 cr, S)

GEOG 3605W Geographical perspectives on planning (4 cr, F)

LA 3002 Regional landscape planning (3 cr, S)

LA 3501 Environmental design and its biological and physical context (3 cr, S)

Introductory Field Training in Assessment and Biology of Forests (4 cr) (taught at Cloquet Forestry Center in August) Includes FR 2101 Identifying Forest Plants (1 cr, BIOL 1001 or BIOL 1009), FR 2102 Northern Forests Field Ecology (2 cr, BIOL 1001 or BIOL 1009), and FR 2104 Measuring Forest Resources (1 cr)

Study abroad course(s)

**Protected Area Law & Policy** (9-12 cr) *Faculty: M. Davenport, I. Schneider, D. Becker*

This option is designed for students interested in the understanding how, where and why policy evolves and influences protected area management. Career opportunities include policy development, policy analysis, and protected area administration.

*Select a minimum of 3 courses from the following list:*

ESPM 3271 Environmental policy, law and human behavior (3 cr, F)

GEOG 3361W Land use, landscapes and the law (3 cr, S)

ESPM 4242 Natural resource and environmental policy analysis (3 cr, F)

ESPM 4256 Natural resource law and management of public lands and waters (3 cr, S)

Study abroad course(s)

**Resource-Based Tourism** (9-12 cr) *Faculty: I. Schneider, W. Gartner*

This option is designed for students interested in tourism. Career opportunities include managing, administration, promotion, and development of tourism attractions and destinations.

*Select a minimum of 3 courses from the following list:*

ARCH 3641 Introduction to Heritage Preservation (3 cr, F)

ESPM 3271 Environmental policy, law and human behavior (3 cr, F)

MKTG 3001 Principles of Marketing (3 cr, F&S, prereq ECON 1101)

MGMT 3001 Fundamentals of Management (3 cr, F&S)

MKTG 3040 Buyer Behavior (4 cr, F&S, prereq MKTG 3001 and 3010)

MKTG 4050 Integrated Marketing Communications (4 cr, F&S, prereq MKTG 3001 and 3010)

MKTG 4060 Marketing and Distribution Channels (4 cr, F&S, prereq MKTG 3001 and 3010)

RRM 3201 Introduction to Travel and Tourism (3 cr, S)

RRM 3301 International Tourism (3 cr, S)

Study abroad course(s)

**Graduate Study Option** (9+ cr) *Faculty: All*

This option is intended to strengthen the student's undergraduate core to better prepare for graduate school. Specific electives will vary depending on anticipated area of graduate study and to emphasize undergraduate classes that are prerequisites for classes likely to be needed in graduate school. Students are encouraged to talk with faculty in their area of interest. Math, science and basic courses also help students prepare for the Graduate Record Exam (GRE). The GRE is required for entrance into graduate programs at many universities. Both GRE scores and a student's undergraduate program of classes are also important factors in admissions and obtaining assistantships and/or fellowships that support graduate study.

## **Additional Enrichment Opportunities**

### **Minors & Certificates**

Minors and certificates are an excellent way to further focus your studies in a related area of interest. The following are minors and certificates typically of interest to students in natural resources.

- Environmental Sciences, Policy & Management (16 cr)
- Fisheries & Wildlife (16-18 cr)
- Forest Resources (18 cr)
- Geographic Information Science (16 cr)
- Mass Communications-Emphasis in Public Relations (18 cr)
- Sustainable Tourism Certificate (12 cr in addition to RRM 3101)
- Sustainability Studies (15-18 cr)

### **Study Abroad**

The University encourages students to incorporate international study into their academic programs. In addition to those programs offered at the University level, the College of Food, Agricultural and Natural Resource Sciences also offers international programs specific to many of the majors housed within the college. Visit the Learning Abroad Center to learn more about the many study abroad experiences available.