***Twin Cities Campus***

# Recreation Resource Management B.S.

*Forest Resources*

**College of Food, Agricultural and Natural Resource Sciences**

- **Students will no longer be accepted into this program after Spring 2013. Program requirements below are for current students only.**

- Program Type: Baccalaureate
- Requirements for this program are current for Spring 2013
- Required credits to graduate with this degree: 120
- Required credits within the major: 90 to 120
- This program requires summer terms.
- Degree: Bachelor of Science

The recreation resources management curriculum prepares students for a career in protected area planning and management across the state, United States, or globe. The curriculum emphasizes natural and managed non-urban areas; natural resources-oriented recreation programs in public and private sectors; social science aspects of natural resources use; and skills in communication, planning, and management. Graduates often serve as park or river rangers, protected area managers, outdoor educators or recreation area and facilities planners. Typical employers include protected area management and planning agencies within federal, state, and local parks; forestry; wildlife; nature conservation; and related non-governmental organizations. Additionally, this curriculum provides excellent preparation for graduate training in the human dimensions of natural resources. A minor is also available. Students may also apply credits toward the International Ecotourism Certificate.

## Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

## Admission Requirements

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

## General Requirements

All students are required to complete general University and college requirements including writing and liberal education courses. For more information about University-wide requirements, see the liberal education requirements.Required courses for the major or minor in which a student receives a D grade (with or without plus or minus) do not count toward the major or minor (including transfer courses).

## Program Requirements

All major requirements must be taken A-F (unless only offered S-N), and students must earn a grade of at least C- or better.

**Communication Skills**

COMM 1101 - Introduction to Public Speaking [CIV] (3.0 cr)

**Mathematical Thinking**

MATH 1031 - College Algebra and Probability [MATH] (3.0 cr)
*or* MATH 1051 - Precalculus I [MATH] (3.0 cr)
ESPM 3012 - Statistical Methods for Environmental Scientists and Managers [MATH] (4.0 cr)
*or* STAT 3011 - Introduction to Statistical Analysis [MATH] (4.0 cr)

**Physical and Biological Sciences**

PMB 2022 - General Botany (3.0 cr)
BIOL 1001 - Introductory Biology: Evolutionary and Ecological Perspectives [BIOL] (4.0 cr)
*or* BIOL 1009 - General Biology [BIOL] (4.0 cr)
CHEM 1015 - Introductory Chemistry: Lecture [PHYS] (3.0 cr)
CHEM 1017 - Introductory Chemistry: Laboratory [PHYS] (1.0 cr)
*or* CHEM 1061 - Chemical Principles I [PHYS] (3.0 cr)
CHEM 1065 - Chemical Principles I Laboratory [PHYS] (1.0 cr)
SOIL 2125 - Basic Soil Science [PHYS, ENV] (4.0 cr)
*or* SOIL 1125 *{Inactive}*[ENV] (4.0 cr)


Information current as of March 28, 2024

**Social Sciences**
ESPM 3261 - Economics and Natural Resources Management [SOCS, ENV] (4.0 cr)
PSY 1001 - Introduction to Psychology [SOCS] (4.0 cr)
*or* SOC 1001 - Introduction to Sociology [SOCS, DSJ] (4.0 cr)
PSY 3201 - Introduction to Social Psychology (3.0 cr)
*or* SOC 3721 - Principles of Social Psychology (3.0 cr)

**Introductory and General**
RRM 1001 *{Inactive}*(1.0 cr)

**Resource Assessment**
FNRM 3131 - Geographical Information Systems (GIS) for Natural Resources [TS] (4.0 cr)

**Management of Vegetation, Wildlife, Soil, and Water Resources**
FNRM 1101 - Dendrology: Identifying Forest Trees and Shrubs (3.0 cr)
FNRM 3104 - Forest Ecology (4.0 cr)
*or* FNRM 3411 - Managing Forest Ecosystems: Silviculture (3.0 cr)
*or* ESPM 3108 - Ecology of Managed Systems [ENV] (3.0 cr)
FNRM 3114 - Hydrology and Watershed Management (3.0 cr)
*or* ESPM 4061W - Water Quality and Natural Resources [ENV, WI] (3.0 cr)
FW 2001W - Introduction to Fisheries, Wildlife, and Conservation Biology [ENV, WI] (3.0 cr)
*or* ESPM 3101 *{Inactive}*(3.0 cr)
*or* FW 4102 - Principles of Conservation Biology [ENV] (3.0 cr)
*or* FW 4103 - Principles of Wildlife Management (3.0 cr)

**Policy, Management, and Planning**
ESPM 3202W - Environmental Conflict Management, Leadership, and Planning [WI] (3.0 cr)
ESPM 3245 - Sustainable Land Use Planning and Policy [ENV] (3.0 cr)
FNRM 4232W - Managing Recreational Lands [WI] (4.0 cr)
FNRM 5259 - Visitor Behavior Analysis (3.0 cr)
ESPM 3241W - Natural Resource and Environmental Policy [SOCS, CIV, WI] (3.0 cr)
ESPM 4811 - Environmental Interpretation (3.0 cr)
FNRM 3101 - Park and Protected Area Tourism (3.0 cr)

## Program Sub-plans
A sub-plan is not required for this program.

### Honors UHP
This is an honors sub-plan.

Students admitted to the University Honors Program (UHP) must fulfill UHP requirements in addition to degree program requirements. Honors courses used to fulfill degree program requirements will also fulfill UHP requirements.

Current departmental honors course offerings are listed at:
http://www.honors.umn.edu/academics/curriculum/dept_courses_current.html

Honors students complete an honors thesis project in the final year, most often in conjunction with an honors thesis course, or with an honors directed studies or honors directed research course. Students select honors courses and plan for a thesis project in consultation with their UHP adviser and their departmental faculty adviser.

As part of their honors program, CFANS students complete CFAN 3100H; they must submit their project for this faculty-mentored honors experience to the honors committee for approval prior to registration.