UNIVERSITY OF MINNESOTA
Driven to Discover℠

Twin Cities Campus

Environmental Sciences, Policy and Management Minor

College of Food, Agri & Natural Resource Sciences

College of Food, Agricultural and Natural Resource Sciences

- Program Type: Undergraduate minor related to major
- Requirements for this program are current for Fall 2020
- Required credits in this minor: 16 to 20

The environmental sciences, policy and management minor provides students in programs such as biology, education, journalism, political science, and others with the basic understanding to recognize, evaluate, and develop solutions to a range of environmental problems. Students interested in the minor should contact Student Services in 190 Coffey Hall.

Program Delivery

This program is available:

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

Minor Requirements

A minimum of two courses in the minor MUST have an ESPM designator.

Minor Core

Take 2 or more course(s) totaling 6 - 8 credit(s) from the following:

- ESPM 1011 - Issues in the Environment [ENV] (3.0 cr)
- ESPM 3607 - Natural Resources Consumption and Sustainability [GP] (3.0 cr)
- FW 2001W - Introduction to Fisheries, Wildlife, and Conservation Biology [ENV, WI] (3.0 cr)
- SOIL 2125 - Basic Soil Science [PHYS, ENV] (4.0 cr)
- EEB 3001 - Ecology and Society [ENV] (3.0 cr)
  or EEB 3407 - Ecology (3.0 cr)
  or EEB 3408W - Ecology [WI] (4.0 cr)
  or FNRM 3104 - Forest Ecology (4.0 cr)

Electives

You are encouraged, but not required, to choose a theme for your ESPM minor (e.g. communication, forestry, GIS/Remote Sensing, policy, soils, etc.), and to take elective courses that relate to that theme.

Take 10 or more credit(s) from the following:

- ESPM 2401 *{Inactive}*(3.0 cr)
- ESPM 3011W - Ethics in Natural Resources [CIV, WI] (3.0 cr)
- ESPM 3108 - Ecology of Managed Systems [ENV] (3.0 cr)
- ESPM 3202W - Environmental Conflict Management, Leadership, and Planning [WI] (3.0 cr)
- ESPM 3211 - Survey, Measurement, and Modeling for Environmental Analysis (3.0 cr)
- ESPM 3221 - Soil Conservation and Land-Use Management (3.0 cr)
- ESPM 3241W - Natural Resource and Environmental Policy [SOCS, CIV, WI] (3.0 cr)
- ESPM 3245 - Sustainable Land Use Planning and Policy [ENV] (3.0 cr)
- ESPM 3261 - Economics and Natural Resources Management [SOCS, ENV] (4.0 cr)
- ESPM 3271 - Environmental Policy, Law, and Human Behavior [CIV, SOCS] (3.0 cr)
- ESPM 3575 - Wetlands (3.0 cr)
- ESPM 3602 - Regulations and Corporate Environmental Management (3.0 cr)
- ESPM 3603 - Environmental Life Cycle Analysis (3.0 cr)
- ESPM 3604 - Environmental Management Systems and Strategy (3.0 cr)
- ESPM 3605 - Recycling: Extending Raw Materials [TS] (3.0 cr)
- ESPM 3612W - Soil and Environmental Biology [WI] (4.0 cr)
- ESPM 4061W - Water Quality and Natural Resources [ENV, WI] (3.0 cr)
- ESPM 4216 - Contaminant Hydrology (3.0 cr)
- ESPM 4256 - Natural Resource Law and the Management of Public Lands and Waters (3.0 cr)
- ESPM 4295W - GIS in Environmental Science and Management [WI] (4.0 cr)
- ESPM 4601 - Environmental Pollution (3.0 cr)
- ESPM 4607 - Industrial Biotechnology and the Environment (3.0 cr)
- ESPM 4811 - Environmental Interpretation (3.0 cr)
- ESPM 5601 *{Inactive}*(3.0 cr)
- BBE 2201 - Renewable Energy and the Environment [TS] (3.0 cr)

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•BBE 4608 - Environmental and Industrial Microbiology (3.0 cr)
•CI 5537 *{Inactive}*(3.0 cr)
•CI 5747 *{Inactive}*(3.0 cr)
•EEB 3603 - Science, Protection, and Management of Aquatic Environments (3.0 cr)
•EEB 4609W - Ecosystem Ecology [ENV, WI] (3.0 cr)
•EEB 4611 - Biogeochemical Processes (3.0 cr)
•ENT 3925 *{Inactive}*(3.0 cr)
•FNRM 1101 - Dendrology: Identifying Forest Trees and Shrubs (3.0 cr)
•FNRM 3114 - Hydrology and Watershed Management (3.0 cr)
•FNRM 3131 - Geographical Information Systems (GIS) for Natural Resources [TS] (4.0 cr)
•FNRM 3203 - Forest Fire and Disturbance Ecology (3.0 cr)
•FNRM 3204 - Landscape Ecology and Management (3.0 cr)
•FNRM 3218 - Measuring and Modeling Forests (3.0 cr)
•FNRM 3262 - Remote Sensing and Geospatial Analysis of Natural Resources and Environment (3.0 cr)
•FNRM 3362 - Drones: Data, Analysis, and Operations (3.0 cr)
•FNRM 3462 - Advanced Remote Sensing and Geospatial Analysis (3.0 cr)
•FW 4102 - Principles of Conservation Biology [ENV] (3.0 cr)
•FNRM 3411 - Managing Forest Ecosystems: Silviculture (3.0 cr)
•HSCI 3244 - Nature's History: Science, Humans, and the Environment [HIS, ENV] (3.0 cr)
•PMB 4321 - Minnesota Flora (3.0 cr)
•PMB 4511 - Flowering Plant Diversity (3.0 cr)
•PHIL 3301 - Environmental Ethics [ENV] (4.0 cr)
•REC 4301 *{Inactive}*(4.0 cr)
•SUST 3003 - Sustainable People, Sustainable Planet [ENV] (3.0 cr)
•GCC 5008 - Policy and Science of Global Environmental Change [ENV] (3.0 cr)
•SOIL 5555 - Wetland Soils (3.0 cr)
or ESPM 5555 - Wetland Soils (3.0 cr)
•ESPM 3601 - Sustainable Housing--Community, Environment, and Technology [TS] (3.0 cr)

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