

## Corporate Environmental Management Minor

(Note: In addition to the minor, Corporate Environmental Management is offered as a track in the Environmental Sciences, Policy and Management major within the College of Food, Agricultural and Natural Resource Sciences.)

The Corporate Environmental Management (CEM) minor is designed to provide students with an excellent opportunity to gain a broad exposure to the strategic, analytical, and managerial processes associated with the environmental impact of companies' and other organizations' products and processes. Completion of the CEM Minor enhances students' preparation for graduate school and for entering a career in the growing corporate functions of environmental management and regulatory compliance.

The CEM minor is available to students, in good standing, in all majors at the University of Minnesota, Twin Cities campus.

### General Eligibility Requirements:

Completion of the following courses:

- ECON 1101, Principles of Microeconomics (4 cr); or APEC 1011, Principles of Microeconomics (3 cr); or ESPM 3261, Economics and Natural Resource Management (4 cr); or equivalent
- Math 1142, Short Calculus (4 cr); or equivalent
- Stat 3011, Introduction to Statistical Analysis (4 cr); or OMS 2550, Business Statistics (4 cr); or equivalent
- Biol 1001, Introduction to Biology I (4 cr); or Biol 1009, General Biology (4 cr)

### Minor Requirements: (18 total credits)

- ACCT 2050 Introduction to Financial Reporting (3 cr, F/S)
- ESPM/MGMT 3603 Environmental Life Cycle Analysis (3 cr, F)
- ESPM/MGMT 3604 Environmental Management Systems and Strategy (3 cr, F)
- ESPM/MGMT 5019 Business, the Natural Env., and the Global Economy (2 cr, F)

In addition the student must complete a minimum of 6 credits from the following list:

- ESPM 3011W Ethics and Leadership in Resources Management (3cr, F/S)<sup>E, CPE, WI</sup>
- ESPM 3202W Environmental Conflict Management, Leadership, and Planning (3cr, S)<sup>E, WI</sup>
- ESPM 4242 Natural Resource and Environmental Policy Analysis (3cr, F)
- ESPM 3602 Regulatory and Ethical Frameworks for CEM (3cr, S)
- ESPM 3605 Recycling: Extending Raw Materials Supplies (3cr, S)
- ESPM 3606 Minimizing Industrial Emissions (3cr, F) *Prereq: Chem 1011*
- ESPM 4061W Water Quality: Management of a Natural Resource (3cr, F/S)<sup>E, WI</sup>
- ESPM 4607 Industrial Biotechnology and the Environment (2cr, S)
- ESPM 4608 Bioremediation (2cr, F)
- PLPA 3002 Air Pollution, People & Plants: the Science and Ethics (3cr, F)<sup>E, CPE</sup>

All coursework must be completed with a C- or better.

For more information please contact Professors Tim Smith ([smith463@umn.edu](mailto:smith463@umn.edu), 612-624-6755, 222 Kaufert Lab) or Sangwon Suh ([sangwon@umn.edu](mailto:sangwon@umn.edu), 612-624-5307, 102 Kaufert Lab).