

Environmental Management (MS)

This program is offered by the College of Science and Health. It is available online and at the St. Louis main campus.

STEM program

Program Description

The master of science (MS) in environmental management program is designed to provide students with the tools and techniques to navigate the business aspects of environmental management. Students learn to assess and convey the business, ethical and legal information to those who make or are affected by the decisions that shape our natural resources and environment.

Learning Outcomes

Upon completion of the program, students will be able to:

- Apply key terminology, facts, concepts, principles, historical perspectives and theories concerning environmental management and global sustainability toward solving environmental challenges.
- Align sustainability initiatives with organization mission and core values.
- Manage environmental-related risk from an organization's operation.
- Identify environmental hazards affecting air, water and soil quality.
- Assess environmental-related risk.
- Develop controls to reduce or eliminate risk.
- Employ project management processes and analytical tools to achieve a sustainable outcome to environmental problems.
- Conduct environmental research and communicate risk from an organization's operations.
- Research scientific, engineering, economic, and congressional information for statutory, regulatory and sustainable approaches to environmental problems.
- Prepare technical papers/briefings to communicate risk/solutions to stakeholders.

Program Curriculum

Required Courses

The 36 credit hours required for the MS in environmental management must include the following courses:

- ENMG 5000 Environmental Science (3 hours)
- BUSN 6110 Production and Operations Management (3 hours)
- ENMG 5100 Environmental Law (3 hours)
- ENMG 5200 Environmental Regulations and Compliance Auditing (3 hours)
- ENMG 5300 Environmental Accounting (3 hours)
- ENMG 6100 Management of Land and Water Resources (3 hours)
- ENMG 6110 Management of Air Quality (3 hours)
- ENMG 6120 Waste Management and Pollution Control (3 hours)
- ENMG 6200 Environmental Risk Management and Strategies (3 hours)

In addition, the student completes 9 credit hours of graduate elective courses offered from other programs.

Emphasis in Environmental Sustainability

The emphasis in environmental sustainability is designed to provide environmental managers with specialized coursework in

this area. This emphasis area concentrates on the relationship between sustainability and environmental resource management to include managing economic, social and ecological systems with and external to an organizational entity in order for it to sustain both itself and the system it exists within.

Additional Emphasis Learning Outcomes

Upon completion of this emphasis, students will be able to:

- Identify the basic scientific principle of ecology and biodiversity and the way human systems integrate with natural systems.
- Conduct research and present findings on selected environmental sustainability topics.
- Identify the limits of science and law in resolving environmental disputes.
- Review managerial, technological and policy approaches to natural resource management.
- Effectively communicate energy-related legislation and policies to stakeholders.

Emphasis Curriculum

The MS in environmental management with an emphasis in environmental sustainability requires 39 credit hours. The 12 credit hours required for the emphasis in environmental sustainability must include the following courses:

- ENMG 5400 Environmental Sustainability (3 hours)
- ENMG 5410 Environmental Ethics and Decision Making (3 hours)
- ENMG 5420 Natural Resource Management and Sustainability (3 hours)
- ENMG 5430 Energy Policy and Sustainability (3 hours)

Dual Degree Option: MBA/MS in Environmental Management

54 to 57 Credit Hours

Requirements for a dual degree with the MBA program generally include the required MBA courses (33 hours) and the required coursework in the additional degree program, except where noted below. If BUSN 5000 has been waived, the required hours are reduced by 3 credits and the BUSN 5000 course does not require a substitution.

Upon completion of all required credit hours, two separate diplomas are issued at the same time. The two degrees cannot be awarded separately or sequentially under this arrangement.

- BUSN 5000 Business (3 hours)
- MBA 5010 Value Creation (3 hours)
- MBA 5020 Quantitative Methods for the MBA (3 hours)
- MBA 5030 Market Analysis and Business Planning (3 hours)
- MBA 5100 Adding Value through Human Capital (3 hours)
- MBA 5200 The Financial Value of Capital Projects (3 hours)
- MBA 5300 Providing Value to Customers (3 hours)
- MBA 5400 The Supply Chain and Business Processes (3 hours)
- MBA 5500 Information Support for Decision Making (3 hours)
- MBA 5910 Cases in Value Creation (3 hours)
- MBA 5920 Walker Consulting Project: Adding Value to Organizations (3 hours)
- ENMG 5000 Environmental Science (3 hours)
- ENMG 5100 Environmental Law (3 hours)
- ENMG 5200 Environmental Regulations and Compliance Auditing (3 hours)

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- ENMG 5300 Environmental Accounting (3 hours)
- ENMG 6100 Management of Land and Water Resources (3 hours)
- ENMG 6110 Management of Air Quality (3 hours)
- ENMG 6120 Waste Management and Pollution Control (3 hours)
- ENMG 6200 Environmental Risk Management and Strategies (3 hours)

Note: The MS in environmental management has a program prerequisite of BUSN 5760.

Admission

See the Admission section of this catalog for general admission requirements. Students interested in applying must submit their application online at www.webster.edu/ apply. Transcripts should be sent from your institution electronically to transcripts@webster.edu. If this service is not available, send transcripts to:

Office of Admission
Webster University
470 E. Lockwood Ave.
St. Louis, MO 63119

Prerequisites

The prerequisites for the program are a bachelor's degree and BUSN 5760 Applied Business Statistics (or 6 credit hours of undergraduate statistics).

Advancement to Candidacy

Students are admitted to their graduate program upon completion of all admission requirements. Students are advanced to candidacy status after successfully completing 12 credit hours with a cumulative GPA of 3.0 or higher. In specialized programs, courses required as prerequisites to the program do not count toward the 12 credit hours required for advancement.