

# SUSTAINABLE MANAGEMENT (SMGT)

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## SMGT 700 Cultural and Historical Foundations of Sustainability 3.00

The changing relationships of humans to the natural environment; changes in dominant scientific perspectives and the process of scientific debate. The quest for understanding, manipulating, and dominating the natural world. Cultural and organizational structures; the role and impact of technology; the systems approach to problem solving and its implications for the future.

### Prerequisites:

Admission to M.S. in SMGT Program.

### Typically Offered:

- Fall and Spring Terms

## SMGT 710 The Natural Environment 3.00

Natural cycles, climate, water, energy, bio-systems, eco-systems, the role of humans in the biosphere; human impacts on natural systems. Use of case studies; some pre-reading, carbon cycle as a unifying theme. Disturbance pollution and toxicity; carrying capacity; natural capital.

### Prerequisites:

Admission to M.S. in SMGT Program.

### Typically Offered:

- Fall and Spring Terms

## SMGT 720 Applied Research and the Triple Bottom Line 3.00

Document and project internal and external costs resulting from the inseparability of the natural, social and economic environments. Assess sustainability issues using basic modeling techniques; cause and effect, root cause analysis, regression analysis and business scenario based cases.

### Prerequisites:

Admission to M.S. in SMGT Program.

### Typically Offered:

- Fall and Spring Terms

## SMGT 730 Policy, Law and Ethics of Sustainability 3.00

The Law and Ethics regarding sustainability of Economic development and emerging environmental challenges at national and international levels; including National Environmental Policy Act (NEPA), Carbon Footprints, Kyoto protocol, and Brundtland Commission. The policy and role of government and its agencies such as Army Corps of Engineers; Department of Interior, etc., in building a more just, prosperous, and secure environmental common future.

### Prerequisites:

Admission to M.S. in SMGT Program.

### Typically Offered:

- Fall and Spring Terms

## SMGT 740 Economics of Sustainability 3.00

Understand the economy as a component of the ecosystem within which it resides, with natural capital added to the typical analysis of human, social, built, and financial capital. Explore traditional micro, macro, and international trade theory and policy and the implications of sustainability. Topics include: history of economic systems and thought; globalization and localization; distinguishing between growth and development; the nature and causes of market failure; consumption, consumerism, and human well-being; emerging markets; technological change; business organization and financial market alternatives; demographic change; and the global food economy.

### Prerequisites:

Admission to M.S. in SMGT Program.

### Typically Offered:

- Fall and Spring Terms

## SMGT 750 The Built Environment 3.00

Explore how the built environment came to be and the intersection of human needs: water, air, food, water, waste, transportation, healthcare and education. Evaluate community design: what does a sustainable community look like? Study related technologies and evaluate alternatives, discuss unintended consequences. Course will include case studies.

### Prerequisites:

Admission to M.S. in SMGT Program.

### Typically Offered:

- Fall and Spring Terms

**SMGT 760 Geopolitical Systems 3.00**

An examination of decision making and public policy for sustainability at the national, state, and local level, with emphasis on the social, economic, political factors affecting decisions within both the public and private sectors. Attention is given to formal American policy making processes, informal grassroots activities and consensus building, public engagement with sustainability decisions, corporate sustainability actions and reporting, the promise of public-private partnerships and collaborative decision making, and practical examples of how decision making fosters effective transitions to sustainability goals at all levels.

**Prerequisites:**

Admission to M.S. in SMGT Program.

**Typically Offered:**

- Fall and Spring Terms

**SMGT 770 Leading Sustainable Organizations 3.00**

A macro-level perspective on leading sustainable organizations. Topics addressed include: organizational change and transformation processes, strategic and creative thinking, organizational structures and their impacts, conflict management and negotiation, stakeholder management and situational leadership styles and behaviors. Focuses on how organizational leaders develop and enable sustainable organizations, especially in times of environmental change.

**Prerequisites:**

Admission to M.S. in SMGT Program.

**Typically Offered:**

- Fall and Spring Terms

**SMGT 780 Corporate Social Responsibility 3.00**

Corporate social responsibility and an organization. Evaluation of risks and potential impacts in decision making recognizing the links between the success of an organization and the well being of a community. Integrating corporate social responsibility throughout an organization, creating metrics and communicating CSR policies internally and externally. Development of best practices in an organization pertaining to corporate social responsibility.

**Prerequisites:**

Admission to M.S. in SMGT Program.

**Typically Offered:**

- Fall and Spring Terms

**SMGT 782 Supply Chain Management 3.00**

Planning, organizing and controlling the organization's supply chain is examined in context of the triple bottom line. Total cost analyses or product and process life cycles are considered in the context of strategy and operations. Topics include: sourcing, operations, distribution, reverse logistics and service supply chains. Process measurements and the impact on organizational performance in the context of footprints (e.g. carbon, water, pollution). Discussion of existing and potential software systems.

**Prerequisites:**

Admission to M.S. in SMGT Program.

**Typically Offered:**

- Fall and Spring Terms

**SMGT 784 Sustainable Water Management 3.00**

This course addresses practical applications of sustainability in aquatic environments. Topics covered include water and health, water quality and quantity, governance, assessing the aquatic environment, water treatment technologies, environmental mitigation, and impacts of climate change. Emphasis will be on selected areas of interest from the perspective of public health, engineering, and municipal conservation management.

**Prerequisites:**

Admission to M.S. in SMGT Program.

**SMGT 785 Waste Management and Resource Recovery 3.00**

Topics include the generation, processing, management and disposal of municipal, industrial and agricultural waste with an emphasis on the technical, economic and environmental aspects of various recovery processes. Additional topics will include producer responsibility, design for environment and life cycle analysis.

**Prerequisites:**

Admission to M.S. in SMGT Program.

**Typically Offered:**

- Fall and Spring Terms

**SMGT 786 Climate Change 3.00**

In this course, you will explore climate change through scientific, humanistic, and sustainability frameworks. After building a strong foundation in the causes, impacts, and study of climate change, you will apply this understanding to evaluate scientific communication, environmental justice and vulnerability, and environmental policy to find solutions and strategies to address anthropogenic climate change.

**Prerequisites:**

Admission to M.S. in SMGT Program.

**Typically Offered:**

- Spring Term Only

**SMGT 790 Capstone Preparation Course 1.00**

Research, data analysis, scholarly inquiry resulting in project proposal.

**Prerequisites:**

Admission to M.S. in SMGT Program.

**Typically Offered:**

- Fall and Spring Terms

**SMGT 792 Capstone Project 3.00**

Completion of approved project utilizing concepts from coursework.

**Prerequisites:**

Admission to M.S. in SMGT Program.

**Typically Offered:**

- Fall and Spring Terms

**SMGT 795 Special Topics in Sustainable Management 1.00-3.00**

Various specialized areas of sustainable management will be examined.

This course may be repeated for credit with a different topic.

**Prerequisites:**

Admission to M.S. in SMGT Program.

**Typically Offered:**

- Occasional by Demand

**SMGT 799 Study Abroad 3.00**

Study abroad courses are conducted in various parts of the world and are led by one or more faculty members. This course may be repeated in different locations.

**Prerequisites:**

Admission to M.S. in SMGT Program.

**Typically Offered:**

- Occasional by Demand