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**SMGT 305 Climate Change and Sustainability****3  
Credits**

This course focuses on climate change science and greenhouse gases, natural and human impacts of climate change, and sustainable and efficient strategies to limit carbon emissions. The course is divided into three major areas: 1) climate science and measured impacts, 2) modeled predictions and mitigation/adaptation strategies, 3) sustainable and carbon neutral practices. This course will emphasize not only the economics of carbon budgeting and increasing efficiency but also the human role in creating and solving climate change and the discrepancies in who, where, and what will be impacted by both climate change and the necessary solutions.

*Prerequisite: College Math (for degree-seeking students only; there are no prerequisites for certificate students)*

[SMGT 305 course syllabus](#)

**SMGT 310 Ecology for Sustainable Management****3  
Credits**

This course covers interrelationships of organisms with each other and their environments, as well as investigation into composition and dynamics of populations, communities, ecosystems, landscapes, and the biosphere, with emphasis on sustainability.

*Prerequisites: Introductory Biology (for degree-seeking students only; there are no prerequisites for certificate students)*

[SMGT 310 course syllabus](#)

**SMGT 320 Renewable Energy for Sustainable Management****3  
Credits**

Basic engineering principles and applications for existing and emerging energy technologies. You will learn about energy production, consumption, and environmental impact, and explore the ways in which these principles relate to sustainable management. Topics cover a wide range of energy systems, including nuclear, fossil fuels, wind, solar, biofuels, and biomass.

*Prerequisites: College Math (for degree-seeking students only; there are no prerequisites for certificate students)*

[SMGT 320 course syllabus](#)

**SMGT 325 Natural Resource Management****3  
Credits**

This course examines the interdependence between natural resources associated with land, air, and water. You will explore significant environmental issues regarding the policies and problems in the use and management of natural resources related to soils, vegetation, and landscape within the context of social needs and sustainability.

[SMGT 325 course syllabus](#)