

SSM 101 : Introduction to the Science of Sustainability

Credits: 3

Class Hours: 3 lecture

Prerequisites:

Concurrent enrollment in MATH 75X or qualified for MATH 82X.

Description:

This course identifies sustainability concepts which have become evident from early human movement toward Industrialization in the 1500s to the present. Examines diverse societal circumstances and approaches in resource use including water, energy, waste, land use, economics, oceans, and others. Introduces fundamental systems approaches to recognize interconnections and ramifications of practices. Identifies global sustainability issues and uses Hawai'i and island case studies as a means of better understanding their applied relevance.

Semester Offered: Fall, Spring

Course Student Learning Outcomes (CSLOs):

1. Identify prominent global sustainability principles based on human society and ecosystem analysis.
2. Explain the connections between geomorphologic processes, human development patterns, coastlines, and their connection to nearshore and marine environments.
3. Examine the role of policy in shaping human society, using climate change as a case study.
4. Describe basic systems dynamics as they apply to sustainability.