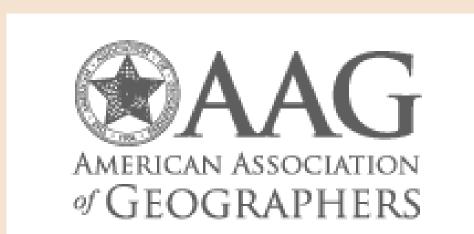


Geographic Environmental Education: Teaching Climate Change from a Social Science Perspective

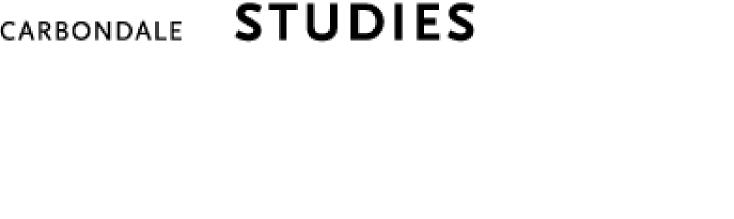




Dr. Leslie A. Duram

Southern Illinois University - Carbondale duram@siu.edu geography.siu.edu

ENVIRONMENTAL CARBONDALE STUDIES







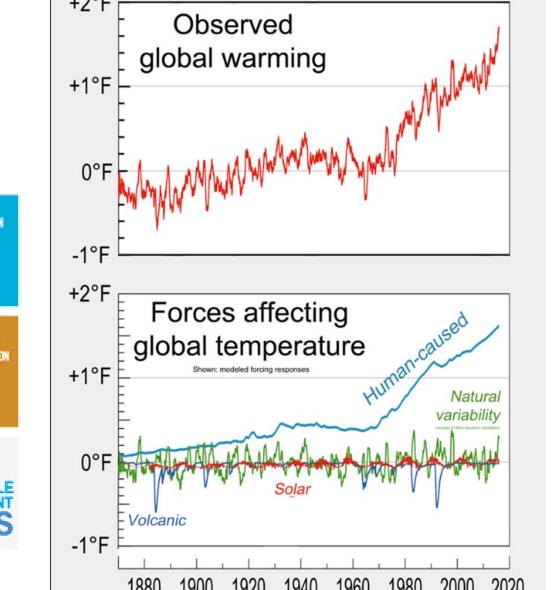


Introduction

Social science perspectives must be included in climate change education in order to address the policy, economic, and cultural influences that impact the environment. This case study describes a course at SIUC that employs a geographic approach, so climate change topics and activities are structured in a local-to-global curriculum perspective. This is relevant to United Nations Sustainable Development Goal (UNSDG) 13: Climate Action, which states that education must encompass geographic and socio-cultural influences on human activities that impact anthropogenic emissions.

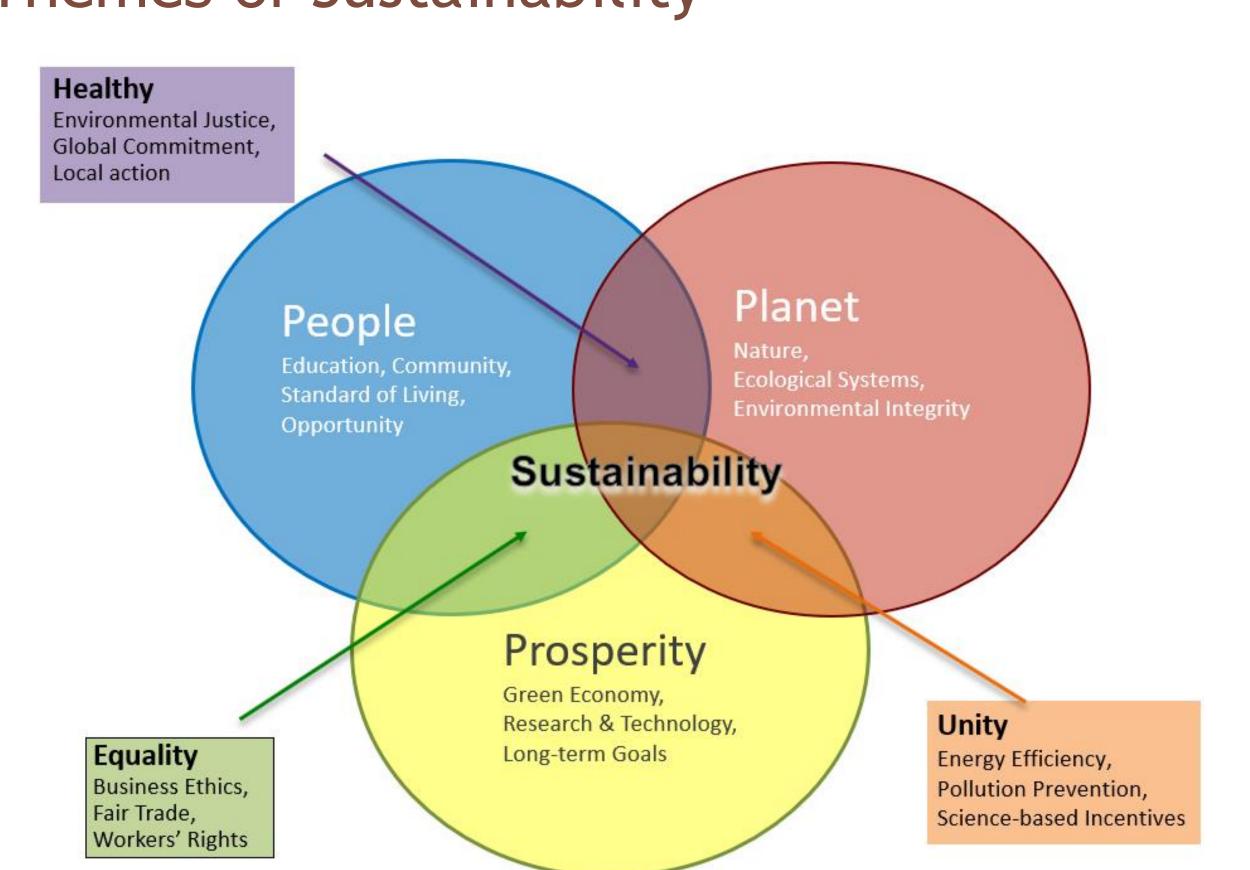






Keywords •Climate Change •Environmental Studies Geographic Education • Higher Education • Local-to-Global •Social Science •Sustainability

Themes of Sustainability



Duram, L.A. 2018. Environmental Geography: People and the Environment. ABC-CLIO. Link

This course examines the major environmental, social, and policy issues relevant to global climate change,

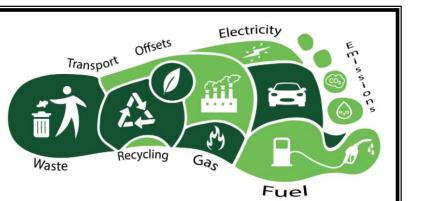
GEOG 439/539: Global Climate Change

including natural and anthropogenic causes, environmental pollution, land use/land cover change, extinction and biodiversity issues, and potential climate change-related impacts on human health.

Course Overview: Local-to-Global Actions

- Lecture topics include: environmental education, historical knowledge timeline, climate justice, youth action, climate activists, science communication, hope vs despair, basis of misinformation, climate refugees, environmental non-governmental organizations, and policies.
- Action-oriented, "real world" examples
- Curriculum perspective: geographic scale
- Online Readings/Quiz and Lectures; In-person Student-led Discussions and Hands-on Activities
 - Activities address relevant individual, local, state, national, and international climate topics

Activity 1 Personal Climate Footprint:



- Cool Climate website https://coolclimate.org/calculator
- Students assess their personal climate impacts and determine what actions they you may take to reduce their climate footprint
- 2 Page Report with specific data, behaviors, daily activities, etc.
- Develop a Personal Climate Action Plan

Activity 3 USA National Policy EICD Act Factsheet

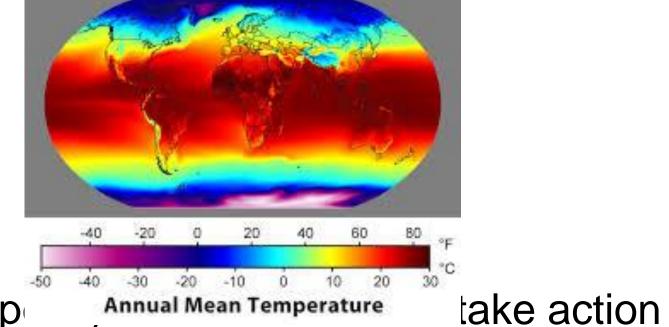
- Study several ENGOs that focus on climate action.
- Learn about the Energy Innovation and Carbon Dividend Act (EICD) This policy initiative has been introduced in the US Congress
 - Who is on the Climate Solutions Caucus?
 - Describe "Price of Pollution Studies"
 - Explain the 4 key components about: "How it Works"
- Write a constituent letter to your Senator or Representative that describes the p
 - Use specific, personal examples to support your request

Activity 2 Local & State Policy Report:



IPCC

- Investigate viable opportunities for innovation
 - Clean energy data sources: DoE, EIA, ICLEI, IPCC, NAS, NREL, etc.
- Assess local and state level climate mitigation policies
 - What actions are being taken by some Mayors and Governors?
- Describe one policy option in detail.
 - What policy is achievable?
 - Which action would be meaningful?
 - Who should you contact to promote this policy?
- Write scripts for two phone calls: ask a local official and a state official to take specific action. Back up your request with specific, personal examples to show your interest.



Global Climate Summit Saluki CC Agreement:





- Similar to Conference of the Parties (COP) to the United Nations Framework Convention on Climate Change (UNFCCC)
- Each student prepares a policy report and represents a nation in negotiating a multilateral climate agreement
- Policies: each nation (aka: student) can design, describe, and justify one policy initiative in support of one of these four concepts:
 - Past Emitters Must Pay
 - Responsibility Must Be Shared by All
 - Economic Growth/Development Must Come 1st
 - Polluting Industries Must Take Responsibility
- National Policy Document (2 pages) with these sections:
 - Brief introduction to your country
 - National Climate Change Data
 - Describe your nation's viewpoint on the 4 policy concepts
 - National CC Goals and Policy Proposal
- Reference list
- International Agreement with specific goals



- During the Saluki Climate Summit, students will:
 - Introduce your country
 - Talk with other nation's representatives and work to build coalitions for the policies
 - Decide on specific goals (2-5 goals); write up agreement
 - Conclusion: international vote will be held on a "Saluki CC Agreement"



FOR MORE INFORMATION

EnvironmentalStudies.siu.edu Geography.siu.edu



