

SCHOOL OF STEM SYLLABUS



TERM: INSTRUCTOR:

COURSE CODE: ENV-103 OFFICE HOURS:

COURSE TITLE: Sustainability and Conservation OFFICE LOCATION:

DAY(S) AND TIME(S): EMAIL:

LOCATION: PHONE:

COURSE PREREQUISITE: Complete ENG-101, Exit Basic Math and Basic Algebra.

CREDITS: 3

COURSE DESCRIPTION:

This course introduces principles and practices of sustainability and conservation. It explores the origins and evolution of the discourse surrounding the idea of sustainable development, as it applies to local and global processes and practices. Other topics include: population and consumption, sources of energy, and climate change.

STUDENT LEARNING OUTCOMES:

Upon completion of this course, you should be able to:

- Describe and understand the fundamentals of Sustainability
- Understand The recent shift to sustainability and conservation
- Describe current energy generation processes
- Describe current and future clean energy generation processes.
- Understand Climate change and its effects on the world.

GRADING POLICY:

Attendance 15%

Participation 20%

Final Project outline 10%

Discussions 25%

Final Project 30%

STEM STUDENT HUB

Information & Resources tailored towards students taking any STEM courses















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SAMPLE COURSE SCHEDULE:

Week	Topic		
1	Introduction and Course Overview Lecture 1 History of Human induced disasters		
	- Historical human influenced		
	environmental disasters.		
2	Discussion 1 Due: 1/31/24 History of Environmental Agencies		
	- Review the history of EPA, NJDEP,		
	County Agencies		
	- Review and discuss the areas of focus		
	for agencies.		
	- Discuss how level of governmental		
	agency interacts with one another.		
3	Discussion 2 Due: 2/7/24 Brief History of Conservation and Sustainability		
	- Its place in the history of the United		
	States		
	- Teddy Roosevelt and John Muir's role		
	- US Forestry Service		
	- Earth Day		
4	Discussion 3 2/7/24		
	Discussion 5 2/ // 24		
	Local Sustainability efforts		
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	Local Sustainability efforts - Local and community Sustainability efforts - What cities towns and states have		
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6	Discussion 5: 2/28/24		
	Endangered Species Act and success stories		
	- Endangered species act history and		
	the successes the act has		
	accomplished.		
7	Discussion 6 : 3/6/24		
	Final Project outline discussion		
	Environmental careers and possibilities		
	- Discussion of environmental careers		
	and the future of the of profession		
8	Discussion 7: 3/13/24		
	Corporate Environmental and changes		
	surrounding		
	- There has been a large shift in		
	corporate sustainability for the		
	better.		
	- Guest speaker Director of		
	Sustainability		
9	Discussion 8: 3/20/24		
	Final Project outline due Climate change and its impacts		
	- Greenhouse effect		
	- Effect on ocean water levels		
	- World temperature trends		
	- World agreements to protect the		
	Environment.		
10	Discussion 9: 4/3/24		
	Non-Renewable Energy generation and		
	<u>trend</u>		
	 Review and discuss the current 		
	energy generation mix		
	- What has caused this to occur and		
	what trends we will see into the		
	future.		

11	Discussion 10: 4/10/24			
	Clean Energy policy and Renewable energy			
	generation			
	 Discuss the history of the renewable energy Explore the current renewable 			
	energy generation options.			
	- Electric car policy			
	- Wind energy policy in NJ			
12	Discussion 11: 4/17/24			
	The future of Sustainability and			
	Conservation			
	 The future of the sustainability movement and the possibilities it holds. Small nuclear reactors Conservation efforts and challenges that it faces. 			
13	Discussion 12 : 4/23/24			
	<u>TBD</u>			
14				
	Final Preparation and review of project			
15	Final project presentation			

HCCC POLICIES, STATEMENTS, AND SERVICES: https://www.hccc.edu/administration/academic-affairs/syllabus-addendum.html

