



# SCHOOL OF STEM SYLLABUS



**TERM:**

**COURSE CODE:** ENV 110

**COURSE TITLE:** Introduction to Environmental Studies

**DAY(S) AND TIME(S):**

**LOCATION:**

**INSTRUCTOR:**

**OFFICE HOURS:**

**OFFICE LOCATION:**

**EMAIL:**

**PHONE:**

**COURSE PREREQUISITE:** ENG 101

**CREDITS:** 3

### **COURSE DESCRIPTION:**

Introduction to Environmental Studies focuses on various aspects of biology, chemistry, geology, physics and social science and their interplay in shaping and influencing the environment. In this course students learn about climate change, ecology, air and water pollution, human population, and renewable and non-renewable sources for power generation, sustainable agriculture, formation and preservation of soil, and genetically modified food.

### **STUDENT LEARNING OUTCOMES:**

Upon the successful completion of this course, students will be able to

- Apply the scientific method to solve environmental problems.LO.1
- Explore scientific theories related to the molecular composition of organisms and the living environment.LO.2
- Explain and interpret the scientific principles of community ecology and population ecology.LO.3
- Assess the scientific principle of conservation biology and explain the benefits of biodiversity.LO.4
- Discuss the chemical, scientific principles and ethical aspects in managing waste LO.5
- Identify and discuss scientific and social principles of sustainability LO.6

### **TEXTBOOK AND SUPPLEMENTAL MATERIALS:**

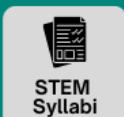
The Environment and You by Norm Christensen, Lissa Leege, and Justin St. Juliana – 3<sup>rd</sup> Edition, Pearson

ISBN-13: 978-0134646053

ISBN-10: 9780134646053

## STEM STUDENT HUB

Information & Resources tailored towards students taking any STEM courses



**GRADING POLICY:**

Learning Activities	Points	Percentages
Discussion Questions	100	10%
Assignments	400	40%
Quizzes	200	20%
<b>Midterm/Final</b>	300	30%
<b>Total</b>	1000	100%

**SAMPLE COURSE SCHEDULE:**

Unit Title	Lecture/ Readings	Learning Activities	Points
<b>Unit 1: Environment Sustainability and Science</b>	Unit 1 Lecture	DISCUSSION TOPIC <a href="#">Unit 1 Introductions</a>	0
	Chapter 1 Environment, Sustainability, and Science	DISCUSSION TOPIC#1 <a href="#">Environment Sustainability and Science</a>	30
		Quiz	Unit 1 Quiz
<b>Unit 2: Environmental Ethics, Economics, Policy and Population Ecology</b>	Unit 2 Lecture	DISCUSSION TOPIC#1 <a href="#">Environmental Ethics, Economics, and Policy</a>	30
	Read Chapter 2: "Environmental Ethics, Economics, and Policy" Read Chapter 4: "Organism, Population Ecology and Evolution"	ASSIGNMENT#1 <a href="#">Environmental Ethics, Economics and Policy</a>	50
		ASSIGNMENT#2 <a href="#">Environmental Ethics</a>	50
		Quiz	Unit 2 Quiz
<b>Unit 3: Communities and Ecosystems</b>	Unit 3 Lecture	DISCUSSION TOPIC#1 <a href="#">Communities and Ecosystems</a>	30
	Read Chapter 6: "Communities and Ecosystems" Read Chapter 8: Biodiversity and Conservation	ASSIGNMENT#1 <a href="#">"Harvest of Shame"</a>	50
		ASSIGNMENT#2 <a href="#">"Biodiversity"</a>	50
		Quiz	Unit 3 Quiz
<b>Unit 4: Air Quality and Water Agriculture and the Ecology of Food</b>	Unit 4 Lecture	Quiz	150
	Read Chapter 10: "Air Quality and Water" Read Chapter 12: "Agriculture and the Ecology of Food"	<a href="#">Midterm</a>	
<b>Unit 5: Forest Resources and Energy</b>	Unit 5 Lecture	DISCUSSION TOPIC#1 <a href="#">Non-Renewable Energy and Electricity</a>	30
	Read Chapter 13: Forest Resources Read Chapter 14: Non-Renewable Energy and Electricity.	ASSIGNMENT#1 <a href="#">Forest Resources</a>	50
		ASSIGNMENT#2 <a href="#">"Natural Resources"</a>	50
		Quiz	Unit 5 Quiz
<b>Unit 6: Waste Management</b>	Unit 6 Lecture	DISCUSSION TOPIC#1 <a href="#">Waste Management, the Environment, and Human Health</a>	30

<b>The Environment and Human Health</b>	Read Chapter 17: "Waste Management" Read Chapter 18: "The Environment and Human Health".	ASSIGNMENT#1	<a href="#">Waste Management, the Environment, and Human Health</a>	50
		ASSIGNMENT#2	<a href="#">"Waste Management"</a>	50
		Quiz	Unit 6 Quiz	30
<b>Unit 7: FINAL EXAM</b>	n/a	Quiz	Final Exam	150
<b>Total</b>				<b>1000</b>

**HCCC POLICIES, STATEMENTS, AND SERVICES:**

<https://www.hccc.edu/administration/academic-affairs/syllabus-addendum.html>



