

CHAPTER 2

ENVIRONMENTAL SCIENCE AND OTHER RELATED FIELDS

LEARNING OBJECTIVES:

At the end of this unit, the students will be able to:

1. Enumerate the specific goals of environmental education;
2. Differentiate the philosophical approaches to environmental ethics;
3. Relate the connection of environmental studies with environmental education.

ENGAGE EXPLORE EXPLAIN

Activity: "Check Your Connections"

Assessment: Formative

Instruction: Input this to your portfolio.

REFLECTIVE QUESTION: As a (indicate your degree program and major here e.g. BSED Values Education) student, how can you communicate Environmental Science to a variety of audiences including policy-makers, the public, colleagues, co-students, and other people coming from different disciplines?

Activity: Lecture

Time allotment: 4 hours

Instruction: Read carefully and understand the lecture notes on Chapter 2: Environmental Science and Other Related Fields. Take down notes on things that needed further clarification.

Lecture notes are provided in this module.

INTRODUCTION

Environmental Science looks into how the natural world works. It would also like to know and understand how the environment affects humans and vice versa. It helps us understand our relationship with the environment and informs our attempts to solve and prevent problems. Also, ES can help us find balanced solutions to environmental problems for sustainable development. Further, looking into related fields of ES would enhance our knowledge and help us in addressing current environmental issues and concerns.

ENVIRONMENTAL EDUCATION

One which is given emphasis today is the protection of our environment. Concerns and issues on changes of the environment are now highly affecting man's life. Environmental science has become a global concern. People are looking and demanding better protection of environmental quality. Looking at the place we live in, we encounter two worlds, one which is the natural world and the other is the social institutions and artifacts.

Environmental Education (EE) refers to the organized efforts to teach how natural environment functions, specifically, how human beings can manage their behavior and ecosystems to live sustainably.

It can also be defined as a process by which people develop (1) awareness, (2) concern and knowledge of the environment, and (3) learn to use this understanding to preserve, conserve and utilize the environment in a sustainable manner for the benefit of present and future generations. It

Environmental Science Chapter 2

**William P. Cunningham, Mary Ann
Cunningham**



Environmental Science Chapter 2:

Environmental Science Michael L. McKinney, Robert M. Schoch, 2003 This edition provides a comprehensive overview and synthesis of current environmental issues and problems Environmental Science For Dummies Alecia M. Spooner, 2012-06-22 The easy way to score high in Environmental Science Environmental science is a fascinating subject but some students have a hard time grasping the interrelationships of the natural world and the role that humans play within the environment Presented in a straightforward format Environmental Science For Dummies gives you plain English easy to understand explanations of the concepts and material you ll encounter in your introductory level course Here you get discussions of the earth s natural resources and the problems that arise when resources like air water and soil are contaminated by manmade pollutants Sustainability is also examined including the latest advancements in recycling and energy production technology Environmental Science For Dummies is the most accessible book on the market for anyone who needs to get a handle on the topic whether you re looking to supplement classroom learning or simply interested in learning more about our environment and the problems we face Presents straightforward information on complex concepts Tracks to a typical introductory level Environmental Science course Serves as an excellent supplement to classroom learning If you re enrolled in an introductory Environmental Science course or studying for the AP Environmental Science exam this hands on friendly guide has you covered **Environmental Science 6e (paper)** Daniel D. Chiras, 2013 **A Text Book of Environmental Science** Vidya Thakur, 2016-01-01 This book is eminently useful for the students pursuing Under Graduate and Post Graduate Courses in Environmental science Environmental Engineering Environmental Biotechnology and environmentalists **Introduction to Environmental Science and Management** Dr. Naorem Sarita Devi, 2024-07-25 Introduction to Environmental Science and Management provides a solid overview of environmental science and management s fundamental ideas and techniques This book details the scientific underpinnings of environmental concerns and key management strategies A straightforward and interesting presentation makes complicated topics accessible to students professionals and everyone interested in the complex interaction between human actions and the environment Environmental science is well covered in the book It discusses ecosystems and human effect on nature Readers will grasp environmental processes and their influences via extensive explanations and examples This scientific basis prepares for environmental management debate In another portion of the book environmental management ideas and methods are discussed Environmental policy resource management and sustainability are covered The book emphasises combining scientific knowledge with practical management strategies to solve environmental problems Practical examples and case studies show how these principles are implemented in varied circumstances giving readers concrete insights and tactics Introduction to Environmental Science and Management is a practical and informative handbook It is vital for environmental science students and professionals in environmental iv management and policy This book connects research and practice to

improve environmental knowledge and management for a sustainable future **Sustainable Environmental Science** D. D. Sahu,2012-01-19 The book deals with the study of natural resource conservation bio diversity population explosion flora and fauna global warming and climate change It is a multidisciplinary subject with the combination of several disciplines like Physical and Social Sciences The subjects related to the environmental are geography chemistry anthropology sociology climate change and mitigation and meteorology Hence there is a need to know about our environmental problems Due general awareness about the importance of the environment this subject has been introduced in the course curriculum of schools colleges and universities This book attempts to provide all possible information about environment and hence can be used as a text book for the course **Environmental Science Theory** W.T. de Groot,1992-10-22 Having no competitive works this unique publication presents a single structure for the analysis explanation and solution of environmental problems regardless of their location nature or scale In this problem oriented approach a coherent framework interconnects the study of facts and values environmental systems social causes and ethical premises Counterbalancing current biases the author emphasizes the fundamental normative economic and social scientific aspects of truly interdisciplinary environmental science For instance the normative side of environmental problems are often neglected resulting in policy designs and evaluations containing inefficient mixtures of sophisticated models and poorly grounded normative premises this is the first major study to enrich the field with more normative consistency and groundedness It is also the first text to consistently identify the social causes of environmental problems rather than focusing on the physical scientific aspects and thus design deeper and more effective policies Furthermore a tinge of post modern thinking runs throughout the book with special care being taken however to constantly keep in view the practical relevance of theory for problem oriented work The book will be of interest to environmental scientists and managers wishing to improve the consistency and depth of their work to social scientists and geographers wishing to connect their discipline to the environmental problems field and to general scientists interested in the connections between philosophy and practice **Scientific American Environmental Science for a Changing World** Anne Houtman,Susan Karr,Jeneen InterlandI,2012-03-05 Environmental Science for a Changing World captivates students with real world stories while exploring the science concepts in context Engaging stories plus vivid photos and infographics make the content relevant and visually enticing The result is a text that emphasizes environmental scientific and information literacies in a way that engages students *Sfaw DuBay Environmental Science Student Edition 1999c ,2000*

Principles of Environmental Science William P. Cunningham,Mary Ann Cunningham,2009 A discussion of how science can help us find solutions for important environmental issues Each chapter starts with an opening vignette of an environmental problem showing the principles to be presented in the text *Environmental Science* Nebel,1997-08

Home Study Experiments to Accompany Environmental Science . 4th Ed Jonathan Turk,Amos Turk,1989
Environmental Science William P. Cunningham,Mary Ann Cunningham,Barbara Woodworth Saigo,2003-03 This book is

intended for use in a one or two semester course in environmental science human ecology or environmental studies at the college or advanced placement high school level Because most students who will use this book are freshman or sophomore nonscience majors the authors have tried to make the text readable and accessible without technical jargon or a presumption of prior science background At the same time enough data and depth are presented to make this book suitable for many upper division classes and a valuable resource for students who will keep it in their personal libraries after their formal studies are completed The goal of this book is to provide an up to date introductory view of essential themes in environmental science along with emphasis on details and case studies that will help students process and retain the general principles

Environmental Science George Tyler Miller,1993 This book is designed to be used in introductory courses on environmental science It treats environmental science as an INTERDISCIPLINARY study combining ideas and information from natural sciences such as biology chemistry and geology and social sciences such as economics politics and ethics to present a general idea of how nature works and how things are interconnected It examines how the environment is being used and abused and what individuals can do to protect and improve it for themselves for future generations and for other living things

Environmental Science Eldon D. Enger,1986 *Principles of Environmental Science* Kenneth E. F. Watt,1973 *Classic Edition Sources: Environmental Studies* Thomas Easton,2008-01-28 This reader provides over 40 selections of enduring intellectual value classic articles book excerpts and research studies that have shaped our contemporary understanding of the environment

Environmental Science Richard T. Wright,Nancy M. Ostiguy,2005

Environmental Science Bernard J. Nebel,Richard T. Wright,1998 This 6th edition has a distinct multi media focus and incorporates the latest technology to capture student attention and successfully relate the many features of the book It focuses on the environmental issues of the day

Environmental Science Daniel B. Botkin,Edward A. Keller,2005 Offers a modern and different perspective Includes updated content to reflect latest research findings Each chapter ending has references to related material on the web

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