

Central Luzon State University  
Science City of Muñoz 3120  
Nueva Ecija, Philippines

Instructional Module for the Course  
Soils1100 - PRINCIPLES OF SOIL SCIENCE

# Module 1 - Introduction to Soil Science

## Overview

In this module, basic principles and concepts regarding functions of soil resource, its genesis and formation, the dynamism of its composition, and profiling will be discussed. It also introduces the relationships of soil to current concerns in sustainable agricultural land use and upholding the environmental quality of agroecosystem. This course inculcates the awareness of soil utilization that can lead to conservation or degradation as a natural resource. Management practices in this resource has a considerable influence not only on human society but the life in general.

The topics that will be discussed in this module are as follows;

- Importance and functions of the soil as a natural resource
- Definition and composition of soil
- Soil Genesis: Soil Formation and development
- The study of soil profile

## I. Objectives

On successful completion of this module, students will be able to;

1. Link the importance of soil in its different functions as a resource.
2. Inculcate the basic foundation of soil as a body of science in agricultural environment.
3. Understand the process of soil formation and its function in soil science.
4. Explain the development of soil based on pedogenic approach as part of the geologic processes.

# Introduction To Soil Science Course Outline

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## **Introduction To Soil Science Course Outline:**

Essential Soil Science Mark Ashman, Geeta Puri, 2013-04-18 This textbook is aimed at the majority of students who need to quickly acquire a concise overview of soil science Many current soil science textbooks still cater for a traditional student market where students embark on three years study in a narrow discipline The growth in modular degree schemes has meant that soil science is now often taught as self standing unit as part of broad based degree program Students pursuing this type of course are increasingly reluctant to purchase expensive textbooks that are too detailed and often assume a scientific background For those opting to specialise in soil science there are a variety of good textbooks to choose from This short informative guide will be particularly useful for students who do not possess a traditional scientific background such as those studying geography environment science ecology and agriculture Only textbook to cater for introductory courses in soil science Provides an affordable concise overview of soil science Learning exercises and chapter summaries enhance usability Annotated suggestions for further reading Based on proven and successful modular course structure Emphasis on readability and interactive learning No scientific background assumed *Handbook of Soil Sciences* Pan Ming Huang, Yuncong Li, Malcolm E. Sumner, 2011-11-17 An evolving living organic inorganic covering soil is in dynamic equilibrium with the atmosphere above the biosphere within and the geology below It acts as an anchor for roots a purveyor of water and nutrients a residence for a vast community of microorganisms and animals a sanitizer of the environment and a source of raw materials for co **Introduction to Soil Science and Soil Resources** Noorallah Gulamhusein Juma, 1999 Teaching Science Online Dietmar Kennepohl, 2023-07-03 With the increasing focus on science education growing attention is being paid to how science is taught Educators in science and science related disciplines are recognizing that distance delivery opens up new opportunities for delivering information providing interactivity collaborative opportunities and feedback as well as for increasing access for students This book presents the guidance of expert science educators from the US and from around the globe They describe key concepts delivery modes and emerging technologies and offer models of practice The book places particular emphasis on experimentation lab and field work as they are fundamentally part of the education in most scientific disciplines Chapters include Discipline methodology and teaching strategies in the specific areas of physics biology chemistry and earth sciences An overview of the important and appropriate learning technologies ICTs for each major science Best practices for establishing and maintaining a successful course online Insights and tips for handling practical components like laboratories and field work Coverage of breaking topics including MOOCs learning analytics open educational resources and m learning Strategies for engaging your students online **Soil Science**, 1924 A monthly journal devoted to problems in soil physics soil chemistry and soil biology *Catalogs of Courses* University of California, Berkeley, 1995 Includes general and summer catalogs issued between 1878 1879 and 1995 1997 **Resources in Education**, 1996-10 Agricultural Education, 1972 **University of Minnesota Bulletin** Minnesota. University, 1905

Catalogue University of the Philippines,1923      Journal of the American Society of Agronomy American Society of Agronomy,1929 An international journal of agriculture and natural resource sciences      *Provisional Course of Study for Junior High Schools* Rochester (N.Y.). Board of Education,1919      **Cornell University Courses of Study** Cornell University,2007      Resources in Education ,1997      *Host Bibliographic Record for Boundwith Item Barcode 30112088652851* ,1923      Undergraduate Programs; Catalog University of Illinois at Urbana-Champaign,1991

**Proceedings** ,1930 Vols for 1st 9th congresses include full proceedings for 10th partial proceedings for 11th abstracts of papers only Selected papers of individual symposia of the congresses published separately and in various journals

*Calendar of the University of Sydney* University of Sydney,1986      **Abstracts of Instructional Materials in Vocational and Technical Education** ,1972      **Kyoto University Bulletin** Kyōto Daigaku,2002

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