

Environmental Sciences (ES) (PEAK)

Overview

PEAK Structure and Curriculum

Years
1&2

Liberal Arts Curriculum
(+ Mandatory Japanese
Language Courses)

Years
3&4

Environmental
Sciences

Japan in
East Asia

The goal is to provide students with a broad-based, inter- and multidisciplinary understanding of Environmental Systems and Global Sciences. This is achieved by exploiting the expertise of many world experts from a large number of different disciplines, in a coherent teaching program based on six key areas. These key areas focus on both the scientific and social science aspects and details of each of them are provided below.

Key Features of the Program

Area
Environmental Principles

Environmental Principles highlights the philosophical and ethical aspects of environmental issues.

Area Management and Policy

Management and Policy treats social science approaches to environmental issues.

Area

Measurement and Evaluation

Measurement and Evaluation examines the theoretical principles and models, experimental methods and technologies and the analytical processes necessary to evaluate these systems and their interactions.

Area
Materials Systems and Dynamics

Materials, Systems and Dynamics is rooted in the physical and biological sciences.

Area
Energy and Resources

Energy and Resources is one of the most important underlying subjects in environmental science.

Area
Health and Security / Urban Planning Technology

This area deals with the many facets of this perspective, including risk analysis, food safety and the dynamics of populations. It discusses the ways in which the beneficial aspects of our environment can be nurtured and enhanced, and the ways in which ecological and and social sustainability can be applied in the design of future urban environments.



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https://youtu.be/ JlbiVosCvY

Pr Divinion: Sample Courses (SI ige every year)

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Ecological Systems

ironmental Sciences

sk Analysis

- · Earth System Science
- Law and the Environment
- Statistics
- Fieldwork and Case-studies for Environmental Sciences
- Fundamentals of Ecology



Professor Richard Shefferson

Fundamentals of Ecology

Fundamentals of Ecology is a course offered in the Environmental Sciences track that provides students with an overview of both the basics and the cutting edge in ecology and evolutionary biology. Students consider real-world problems, such as the current extinction crisis and global overpopulation, and learn the basic theory and scientific skills to help solve them. Students also participate in some field and lab exercises to familiarize them with how ecology is actually done by scientists.

For more information about the Environmental Sciences program, please check: https://peak.c.u-tokyo.ac.jp/courses/es/index.html



