

COURSE DETAIL

GLOBAL ENVIRONMENTAL SYSTEMS

Country

Japan

Host Institution

Waseda University

Program(s)

Waseda University

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Environmental Studies Earth & Space Sciences

UCEAP Course Number

100

UCEAP Course Suffix**UCEAP Official Title**

GLOBAL ENVIRONMENTAL SYSTEMS

UCEAP Transcript Title

GLOBAL ENV SYSTEM

UCEAP Quarter Units

3.00

UCEAP Semester Units

2.00

Course Description

This course covers issues involved in global environmental changes and introduces system thinking, which is used in natural and social sciences. The course covers the following topics:

- 1: Global Change: Overview
- 2: System Diagram
- 3: Daisyworld
- 4: Global Energy Balance
- 5: The Atmospheric Circulation System
- 6: The Circulation of the Oceans
- 7: The Carbon Cycle
- 8: Long-Term Climate Regulation
- 9: Faint Young Sun Paradox, Early Earth
- 10: Short-Term Climate Variability
- 11: Global Warming and An Inconvenient Truth
- 12: Kepler and Milankovitch
- 13: Ozone Depletion

Language(s) of Instruction

English

Host Institution Course Number

PLNX301L

Host Institution Course Title

GLOBAL ENVIRONMENTAL SYSTEM

Host Institution Course Details

<http://www.wsl.waseda.jp/syllabus/JAA104.php?pKey=210LE40200512025210LE4020021&...>

Host Institution Campus

Waseda University

Host Institution Faculty

Host Institution Degree

Host Institution Department

SILS

Course Last Reviewed

2025-2026

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