

COURSE DETAIL

ADVANCED STATISTICS

Country

Japan

Host Institution

Waseda University

Program(s)

Waseda University

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Statistics Mathematics

UCEAP Course Number

110

UCEAP Course Suffix**UCEAP Official Title**

ADVANCED STATISTICS

UCEAP Transcript Title

ADVANCED STATISTICS

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

Information is a fundamental concept in the world around us that can be investigated from several perspectives. The mathematical theory of information provides a framework for a formal description and interpretation of information. In many ways, this mathematical framework (its applications and the interpretations it provides) is based on concepts from probability theory and statistics. This course provides students with an introduction to the field of information theory. Students will learn to apply and interpret a wide range of concepts from statistics and probability theory to develop, model, and understand the concept of information, as well as related ideas, in a structured and organized way. Many of the tools of statistics and probability theory students encounter in the course should be familiar to them from introductory or intermediate statistics courses, while other concepts might be new.

Language(s) of Instruction

English

Host Institution Course Number

STAX301L

Host Institution Course Title

ADVANCED STATISTICS

Host Institution Campus

SILS

Host Institution Faculty

Host Institution Degree

Host Institution Department

SILS - Information Science

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