COURSE DETAIL

MATHEMATICAL METHODS IN PSYCHOLOGY
Country Taiwan
Host Institution National Taiwan University
Program(s) National Taiwan University
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Psychology
UCEAP Course Number 111
UCEAP Course Suffix
UCEAP Official Title MATHEMATICAL METHODS IN PSYCHOLOGY
UCEAP Transcript Title MATH METHODS PSYCH
UCEAP Quarter Units 4.50
UCEAP Semester Units 3.00

Course Description

This course introduces fundamental modeling principles in psychology, with a particular focus on model testing using the maximum likelihood approach. It covers the formulation of model likelihoods and the application of computational techniques to maximize them. The course demonstrates the use of models through examples primarily drawn from perception and cognition. Topics include threshold models, signal detection theory, multinomial processing tree models, reinforcement learning models, and more.

Language(s) of Instruction
Chinese

Host Institution Course Number
Psy5028

Host Institution Course Title
MATHEMATICAL METHODS IN PSYCHOLOGY

Host Institution Course Details
https://nol.ntu.edu.tw/nol/coursesearch/print_table.php?course_id=227%20U0920&c...

Host Institution Campus

Host Institution Faculty
Science

Host Institution Degree

Host Institution Department
Psychology

Course Last Reviewed
2025-2026

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