

COURSE DETAIL

INTRODUCTION TO BAYESIAN STATISTICS

Country

New Zealand

Host Institution

University of Auckland

Program(s)

University of Auckland

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Statistics

UCEAP Course Number

131

UCEAP Course Suffix**UCEAP Official Title**

INTRODUCTION TO BAYESIAN STATISTICS

UCEAP Transcript Title

INTRO BAYESIAN STAT

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

This course introduces Bayesian data analysis using the WinBUGS software package and R. Topics include the Bayesian paradigm, hypothesis testing, point and interval estimates, graphical models, simulation and Bayesian inference, diagnosing MCMC, model checking and selection, ANOVA, regression, GLMs, hierarchical models and time series. Classical and Bayesian methods and interpretations are compared.

Language(s) of Instruction

English

Host Institution Course Number

STATS 331

Host Institution Course Title

INTRODUCTION TO BAYESIAN STATISTICS

Host Institution Course Details

Host Institution Campus

Auckland

Host Institution Faculty

Science

Host Institution Degree

Host Institution Department

Course Last Reviewed

2025-2026

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