



# Exchange programme Vrije Universiteit Amsterdam

Vrije Universiteit Amsterdam - Exchange programme Vrije Universiteit Amsterdam - 2024-2025

## Exchange

Vrije Universiteit Amsterdam offers many English-taught courses in a variety of subjects, ranging from arts & culture and social sciences, neurosciences and computer science, to economics and business administration.

The International Office is responsible for course approval and course registration for exchange students. For details about course registration, requirements, credits, semesters and so on, please [visit the exchange programmes webpages](#).

# Mathematical Statistics 2

Course Code	XB_0136
Credits	6
Period	P4+5
Course Level	300
Language Of Tuition	English
Faculty	Faculty of Science
Course Coordinator	dr. P.J. de Andrade Serra
Examiner	dr. S.L. van der Pas
Teaching Staff	dr. P.J. de Andrade Serra, dr. S.L. van der Pas
Teaching method(s)	Written partial exam, Lecture, Seminar

## Course Objective

Students become familiar with more advanced topics in mathematical statistics.

## Course Content

The following topics will be treated in this course, all from a mathematical perspective:

Bayesian statistics

Decision Theory

Computational methods in statistics

Advanced hypothesis testing, including multiple testing

## Additional Information Teaching Methods

Lectures and exercises

## Method of Assessment

Written midterm and written final exam, each counting for 50% towards the final grade. The resit is a single exam.

## Recommended background knowledge

Mathematical statistics (year 2 bachelor); calculus, linear algebra, probability theory