COURSE DETAIL

STATISTICS II

Country
Netherlands

Host Institution
Maastricht University – University College Maastricht

Program(s)
University College Maastricht

UCEAP Course Level
Upper Division

UCEAP Subject Area(s)
Statistics

UCEAP Course Number
106

UCEAP Course Suffix

UCEAP Official Title
STATISTICS II

UCEAP Transcript Title
STATISTICS II

UCEAP Quarter Units
6.00

UCEAP Semester Units
4.00

Course Description

This course provides an advanced introduction to research methods commonly used in social sciences and humanities. Emphasis is on issues of inferential statistics, regression modelling, multivariate statistics and on computing skills needed to apply these statistical tools. This course is a continuation of Statistics I, which is a discussion of the basic tools of inferential statistics: confidence intervals and hypothesis tests (which in turn involved concepts like null and alternative hypotheses, Type I and Type II errors, rejection points and p-values), all these concepts illustrated in the context of the one-sample tests. Students are given additional tests to examine a large array of questions that may occur in social sciences. In the first weeks, the course discusses the two-sample t-test (to compare the mean of a quantitative variable between two populations), oneway-ANOVA (for more than two populations), the paired-sample t-test and the chi-square test (to establish relationships between qualitative variables, using contingency tables). The main focus of the course is regression analysis, a very flexible technique used to relate a dependent variable to a number of independent or explanatory variables. This course uses SPSS rather than applets or EXCEL, the software packages used in Statistics I. SPSS is a leading statistical package in social sciences, widely used in academia and in professional practice (e.g. in marketing research). This course has a strong focus on actively applying the statistical tools, using SPSS, to solve case studies based on real-life datasets.

Language(s) of Instruction

English

Host Institution Course Number

SSC3018

Host Institution Course Title

STATISTICS II

Host Institution Campus

Maastricht University

Host Institution Faculty

University College Maastricht

Host Institution Degree

Host Institution Department
Social Sciences

[Print](#)