# Linnæus University

# Course syllabus

Faculty of Health and Life Sciences
Department of Psychology

4PS111 Univariat och multivariat statistik, 7,5 högskolepoäng
Univariate and multivariate statistics, 7.5 credits

**Main field of study**
Psychology

**Subject Group**
Psychology

**Level of classification**
Second Level

**Progression**
A1F

**Date of Ratification**
Approved 2014-09-23
Revised 2017-01-11 by Faculty of Health and Life Sciences.
The course syllabus is valid from autumn semester 2017

**Prerequisites**
45 credits from SAPS2 or the equivalent.

## Objectives
Upon completion of the course, the student shall:

- thoruoghly understand and describe the principles of the General Linear Model (GLM)

- carry out statistical analyses using bivariate t-tests and correlations, multiple regression sanalyses, logistic regression, different types of between-gropus and repeated measures ANOVA, and factor analysis, in the SPSS

## Content

- the course treats the methods for statistical analysis based on GLM, described in Objectives.

## Type of Instruction
Instruction is given in lectures, seminars and statistical labs.

## Examinaion
The course is assessed with the grades A, B, C, D, E, Fx or F.
The grade A constitutes the highest grade on the scale and the remaining grades follow in descending order where the grade E is the lowest grade on the scale that will result in

a pass. The grade F means that the student's performance is assessed as fail.

Grade criteria for the A–F scale are communicated to the student through a special document. The student is to be informed about the grade criteria for the course by the start of the course at the latest.

## Course Evaluation

Upon completion of the course, a written course evaluation is carried out. The evaluation is compiled and fed back to the students, and archived according to departmental regulations.

## Other

The course is part of SAPS2 program. Expenses that may occur during the course are paid by the student.

## Required Reading and Additional Study Material

Dienes, Zoltan. (2008). Understanding psychology as a science: an introduction to scientific and statistical inference. New York: Palgrave Macmillan. 160 pp. ISBN: 9780230542310
Field, A. (2009). *Discovering statistics using SPSS*. London: SAGE. 600 pages. ISBN: 9781847879073

Robbins, S.P., Judge, T.A., & Vohra, N. (2012). *Organizational behavior (15 ed.)*. New York: Pearson. ISBN: 9789332500334. Selected parts.

Articles according to teacher's instructions.