



Sveriges lantbruksuniversitet
Swedish University of Agricultural Sciences

SLUkurs

Syllabus

PFS0131 Multivariate statistics, 4.0 credits

Syllabus approved

2016-01-11

Subjects

Mathematic Statistics

Education cycle

Third cycle

Grading scale

Pass / Failed

The requirements for attaining different grades are described in the course assessment criteria which are contained in a supplement to the course syllabus. Current information on assessment criteria shall be made available at the start of the course.

Language

English

Prior knowledge

A basic course in univariate statistics, together with a familiarity with Linear algebra; for example the previous graduate course Statistics, with mathematics (4 hp).

The course is primarily intended for graduate students, but post-doctoral researchers are also welcome to attend.

Objective, including learning outcomes

Upon successful completion of the course participants will be able to analyze data visually, using exploratory data analysis, as well as statistically, using multivariate statistical tools, and also to critically examine the validity of the statistical analyses.

Content

- Principal components analysis
- Multivariate normality
- Cluster analysis
- Discriminant analysis
- Logistic regression
- Ordinal regression
- Factor analysis
- Canonical correlation analysis

Requirements for examination

The participant will receive 4.0 credits upon successful completion of a home examination.

Additional information

The course can accommodate a limited number of applicants, who will be accepted in the order which the organizer receives the applications.

Applications are to be sent by e-mail to Magnus Ekström (magnus.ekstrom@slu.se) and should contain the following information.

- Name of the course;
- Name of applicant;
- Personal identification number (personnummer);
- Academic affiliation;
- Graduate student or Post-doc.

Responsible department

Department of Forest Resource Management