

PFS0174, Statistics IV: Generalized Linear Models, 4.0 Hp

Syllabus

Finalized by: Institutionen för skoglig resurshushållning, 2020-03-05

Valid from: 2020V

Level within study regulation:

Third cycle

Subject:

- Mathematical Statistics

Grading scale:

Pass / Failed

Course language:

Swedish

Entry requirements:

Statistics III: Regression Analysis or equivalent.

Objectives:

The objective of the course is to give an overview of generalized linear models. On completion of the course, the student will be able to:

- specify generalized linear models including conditions and assumptions
- select an appropriate linear model for a given problem

- carry out an analysis based on a generalized linear model in the statistical software R
- interpret and evaluate results correctly and draw reasonable conclusions
- clearly and concisely communicate results and conclusions

Content:

The course will cover the following topics:

- Binomial and multinomial logistic regression
- Poisson regression
- Overdispersion and zero-inflation.
- Generalized linear models and generalized linear mixed models.

Modes of assessment:

Passed examination in written and/or oral form. - If a student has failed an examination, the examiner has the right to issue supplementary assignments. This applies if it is possible and there are grounds to do so.

- The examiner can provide an adapted assessment to students entitled to study support for students with disabilities following a decision by the university. Examiners may also issue an adapted examination or provide an alternative way for the students to take the exam.
- If this syllabus is withdrawn, SLU may introduce transitional provisions for examining students admitted based on this syllabus and who have not yet passed the course.
- For the assessment of an independent project (degree project), the examiner may also allow a student to add supplemental information after the deadline for submission. Read more in the Education Planning and Administration Handbook.

Organisation:

Department of Forest Resource Management

Supplementary information

Other information:

- The right to participate in teaching and/or supervision only applies for the course instance the student was admitted to and registered on.
- If there are special reasons, students are entitled to participate in components with compulsory attendance when the course is given again. Read more in the Education Planning and Administration Handbook.