

PFS0157, Statistics I: Basic Statistics, 4.0

Hp

Syllabus

Finalized by: inst 260, 2018-12-19

Valid from: 2019V

Level within study regulation:

Third cycle

Subject:

- Mathematical Statistics

Grading scale:

Pass / Failed

Course language:

Swedish

Entry requirements:

None

Objectives:

The objective of the course is to give an introduction to basic probability theory and statistical inference. On completion of the course, the student will be able to:

- use basic probability concepts and statistical principles
- formulate a problem in statistical terms

- describe common statistical methods including conditions and assumptions
- apply basic statistical methods in scientific research
- select an appropriate statistical method for a given problem
- carry out a basic statistical analysis
- interpret and evaluate results correctly and draw reasonable conclusions
- clearly and concisely communicate results and conclusions
- use statistical software for analysis

Content:

The course is built on lectures and computer exercises. The main moments are as follows:

- Descriptive statistics.
- Basic probability theory.
- Probability distributions.
- Statistical inference of means and proportions, one and two samples.
- Nonparametric and resampling methods.
- Analysis of frequency data.
- Sample size determination.

Modes of assessment:

Requirements for examination:

Passed exercises and 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- If this syllabus is withdrawn, SLU may introduce transitional provisions for examining students admitted based on this syllabus and who have not yet passed the course.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.