



## Course syllabus

Faculty of Health and Life Sciences

Department of Psychology

4PS201 Vetenskaplig metod, 7,5 högskolepoäng

Scientific methodology, 7.5 credits

**Main field of study**

Psychology

**Subject Group**

Psychology

**Level of classification**

Second Level

**Progression**

A1N

**Date of Ratification**

Approved 2014-12-08

Revised 2019-07-03 by Faculty of Health and Life Sciences. Revision of literature.

The course syllabus is valid from autumn semester 2019

**Prerequisites**

General requirements for studies at second cycle level plus special prerequisites:

- 90 credits in Psychology (including thesis/degree project, or the equivalent)

### Objectives

Upon completion of the course, the student shall be able to:

- describe the 20th century history of behavioural statistics
- critically evaluate scientific methods relating to industrial and organizational (I-O) psychology
- search for information and scientific literature via internetbased search engines
- integrate knowledge and analyze, judge and handle complex methodological questions and situations
- communicate scientific information
- describe and discuss open science and reproducibility

## Content

- the course covers the 20th century history of behavioural statistics, in addition to the principal theoretical and philosophical scientific assumptions
- the course treats scientific methods and common approaches used in I-O psychology
- the course covers issues of causality, validity and generalizations
- the course contains training in literature search, article reading with analysis of methodology, and practice in oral and written scientific communication
- The course covers recent developments in open science and the reproducibility of psychological science

## Type of Instruction

The teaching methods are lectures and seminars.

## Examination

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.

The examination consists of a written home assignment. Students who fail (F) the first assignment will be offered a re-exam shortly thereafter.

Repeat examination is offered in accordance with Local regulations for courses and examination at the first and second-cycle level at Linnaeus University.

If the university has decided that a student is entitled to special pedagogical support due to a disability, the examiner has the right to give a customised exam or to have the student conduct the exam in an alternative way.

## Course Evaluation

During the implementation of the course or in close conjunction with the course, a course evaluation is to be carried out. Results and analysis of the course evaluation are to be promptly presented as feedback to the students who have completed the course. Students who participate during the next course instance receive feedback at the start of the course. The course evaluation is to be carried out anonymously.

## Other

The course is part of Psychology, Work and Organizational Psychology, Master Programme. Expenses that may occur during the course are paid by the student.

## Required Reading and Additional Study Material

### Compulsory literature

APA. (2006). *Publication manual of the American Psychological Association*. Washington DC, USA: APA Press. 250 pages.

Shadish, W.R., Cook, T.D., & Campbell, D.T. (2002). *Experimental and quasi-experimental designs for generalized causal inference*. Belmont, CA. USA: Wadsworth Cengage Learning. 550 ss.

Salsburg, David. (2001). *The lady tasting tea*. New York: Holt Paperbacks. 300 pages.

Articles according to teacher's instructions, appr. 200 pages.

**Reference literature**

Robbins, S.P., Judge, T.A., & Vohra, N. (2012). *Organizational behavior* (15 ed.). New York: Pearson. ISBN: 9789332500334, appr. 30 pages.