



Course syllabus

Faculty of Social Sciences
Department of Sport Science

4IM001 Vetenskaplig teori och metod, 7,5 högskolepoäng
Theory and methodology in sport science, 7.5 credits

Main field of study

Sport Science

Subject

Medicine

Level

Second cycle

Progression

A1N

Date of Ratification

Approved 2009-12-10.

Revised 2025-03-12. Revision of the text under content and examination, changes to the examination elements, and revision of the reading list.

The course syllabus is valid from autumn semester 2025.

Prerequisites

General entry requirements for second-cycle studies, of which 90 credits in Sport and Health, Sport Science or the equivalent. Alternatively: Degree of Master of Science in Medicine, Degree of Bachelor of Science in Physiotherapy or Degree of Bachelor of Science in Nursing.

Objectives

Upon completion of the course, students should be able to:

- explain general scientific theoretical and methodological concepts,

- explain the structure of the scientific report,
- carry out advanced literature and information retrieval,
- apply a specific advanced analysis method.

Content

The course looks into scientific theories and methods used as a foundation for writing a Master's thesis. The course also provides the tools required to be able to in a scientific manner analyse and evaluate scientific publications within the field of sports medicine/sports science. The course contains the following components:

- Concepts within the field of the theory of science and methodology
- Literature and information retrieval
- Advanced study of a specific analysis method

Type of Instruction

Teaching takes place in the form of lectures and practical sessions.

Examination

The course is assessed with the grades Fail (U), Pass (G) or Pass with Distinction (VG).

Examination of the course takes place by means of two reports related to the practical sessions and by one written advanced study assignment including an associated video presentation.

In order to receive a grade of Pass in the course, the course objectives must be attained and the examination assignments must be assessed with at least Pass.

For a grade of Pass with Distinction in the course it is required that the written advanced assignment is assessed as Pass with Distinction.

A retake of the examination is provided in accordance with the Local Regulations for First-Cycle and Second-Cycle Courses and Examination at Linnaeus University.

Should the university determine that a student is entitled to special educational support due to impairment, the examiner may provide the student with an adapted test or the student may carry out the examination in an alternative way.

Course Evaluation

A course evaluation is carried out either during or at the end of the course. Results and analysis of the evaluation are presented to the students who have completed the course as well as to new students at the following course date. The course evaluation is conducted anonymously.

Required Reading and Additional Study Material

Required reading

Creswell, John W. (Latest edition). *Research design: qualitative, quantitative and*

mixed methods approach. London: Sage Publications ltd, (selected pages, ca. 100 p.)

Ejlertsson, Göran (latest edition). *Statistik för hälsovetenskaperna*. Lund: Studentlitteratur, (280 p.).

Krippendorff, Klaus (latest edition). *Content Analysis. An Introduction to Its Methodology*. Thousand Oaks: SAGE Publications, Inc (472 p.).

Scientific publications provided by the course coordinator, approximately 300 pages.