



## Course syllabus

Organisational Committee

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 Group**

Medicine

### **Level of classification**

Second Level

### **Progression**

A1N

### **Date of Ratification**

Approved 2009-12-10

Revised 2021-02-18 by School of Education, Psychology and Sports Science. Standard text added.

The course syllabus is valid from autumn semester 2021

### **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 concepts and research traditions, and discuss research into sport science in relation to these aspects,
- explain the different elements of the research process, within the qualitative as well as the quantitative oriented research into sports, and analyse and evaluate design and realisation of studies within the field of sport science,
- develop a research plan for a study in sport science, comprising all the different elements of the research process, and discuss as well as justify the choices and standpoints made in the research plan,
- explain the structure of the scientific report,
- carry out advanced literature and information retrieval,
- apply a specific advanced analysis method.

## Content

- Concepts within the field of the theory of science
- Research traditions
- The research process comprising: problem definition, literature retrieval, purpose, research issues, theory/perspective, research design, empirical data, data collection methods, data processing, analysis method, critical evaluation and consideration of sources, research ethical considerations, discussion and conclusions
- The research report comprising: abstract, introduction, problem definition, literature review/previous research, purpose, research issues, theory/perspective, method, findings, analysis, discussion, conclusions, recommendations/suggestions on future research
- Literature and information retrieval
- Advanced study of a specific analysis method

## Type of Instruction

Teaching takes place in the form of lectures and seminars on the Internet, individual literature studies, and the completion of individual assignments with supervision by the teachers.

## 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 written assignments and participation in four seminars on the Internet.

In order to receive a grade of Pass, the course objectives must be attained.

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, (273 p.)

Backman, Jarl (Latest edition). *Rapporter och uppsatser*. Lund: Studentlitteratur, (223 p.)

Hermerén, Göran (2011). *God forskningssed*. Stockholm: Vetenskapsrådet, (129 s). (Available in digital format).

### Works of Reference

Bryman, Alan (Latest edition). *Social research methods*. Oxford: Oxford University Press, (784 p.)

Thomas, Jerry R., Nelson, Jack K. & Silverman, Stephen (Latest edition). *Research methods in physical activity*. Champaign, IL: Human Kinetics, (479 p.)

Additional scientific literature in the form of electronic publications, dissertations and reports, comprising approximately 1,000 pages.