



Faculty of Health, Science and Technology  
Oral Health

## Syllabus

### Scientific methods, analyses and project planning

**Course Code:** OHG115

**Course Title:** Scientific methods, analyses and project planning  
*Vetenskapliga metoder, analyser och projektplanering*

**Credits:** 7.5

**Degree Level:** Undergraduate level

**Progressive Specialisation:** First cycle, has at least 60 credits in first-cycle course/s as entry requirements (G2F)

**Major Field of Study:**

OHA (Oral Health)

#### Course Approval

The syllabus was approved by the Faculty of Health, Science and Technology 2024-09-10, and is valid from the Spring semester 2025 at Karlstad University.

#### Prerequisites

A Higher Education Diploma in Dental Hygiene, 120 ECTS credits

#### Learning Outcomes

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

##### Knowledge and understanding

- identify differences and similarities between different research designs,
- give an account of the meaning of evidence-based knowledge, and
- give an account of validity, credibility, and reliability in research.

##### Competence and skills

- select and apply relevant methods and analyses to qualitative and quantitative research data,

- demonstrate principles for scientific and evidence-based academic writing,
- demonstrate principles for evidence-based research on oral health,
- identify the significance of projects focused on oral health promotion in terms of societal aspects,
- design a project plan in the area of oral health as a main field of study,
- consider the principles of research ethics.

#### Judgement and approach

- assess previous research with a critical approach,
- reflect upon ethical principles relevant to oral health research.

#### **Content**

- The research process
- Research designs
- Validity, credibility, and reliability
- Evidence-based knowledge
- Principles of research ethics
- Project plan

#### **Reading List**

See separate document.

#### **Examination**

Assessment is based on

- individual written take-home exams
- seminars

If students have a decision from Karlstad University entitling them to Targeted Study Support due to a documented disability, the examiner has the right to give such students an adapted examination or to examine them in a different manner.

#### **Grades**

One of the grades Distinction (VG), Pass (G), or Fail (U) is awarded in the examination of the course.

#### **Quality Assurance**

Follow-up relating to learning conditions and goal-fulfilment takes place both during and upon completion of the course in order to ensure continuous improvement. Course evaluation is partly based on student views and experiences obtained in accordance with current regulations and partly on other data and documentation. Students will be informed of the result of the evaluation and of any measures to be taken.

#### **Course Certificate**

A course certificate will be provided upon request.

#### **Additional information**

The local regulations for studies at the Bachelor and Master levels at Karlstad University stipulate the obligations and rights of students and staff.