



Faculty of Health, Science and Technology
Oral Health

Syllabus

Scientific methods, analyses and project planning

Course Code:	OHG015
Course Title:	Scientific methods, analyses and project planning <i>Vetenskapliga metoder, analyser och projektplanering</i>
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

60 ECTS credits completed in the Dental Hygiene programme, including Introduction to Oral Health - Theories, Profession and Science, 7.5 ECTS credits, Anatomy, Physiology and Medical Microbiology for Dental Hygienists, 7.5 ECTS credits, Preclinical Studies for the Dental Hygienist, Theory and Method, 7.5 ECTS credits, Science Theory and Methods, Basic Course, 7.5 ECTS credits, Health Psychology and Communication, 7.5 ECTS credits, and Oral Health Prevention - Clinical Studies I, 7.5 ECTS credits, plus registered for the courses Public Health and Oral Health Promotion, 7.5 ECTS credits, Oral and General Health - Theory and Clinical Studies II, 22.5 ECTS credits, Children, Adolescents and Young Adults - Health Promotion, Prevention and Treatment within the Dental Hygienist's Profession, 15 ECTS credits, and Conversation Methodology and Treatment for Oral Health-Related Behaviour Change, 7.5 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 and reliability in scientific studies.

Competence and skills

- select and apply relevant methods and analyses in relation to qualitative and quantitative research data,
- demonstrate principles for scientific and evidence-based writing,
- demonstrate principles for evidence-based research on oral health,
- identify the societal significance of oral health projects,
- design a project plan in the main field of study oral health, and
- consider principles of research ethics.

Judgement and approach

- assess research studies with a critical approach, and
- reflect upon the ethical principles of research on oral health.

Content

- The research process
- Research designs
- Validity 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.