



Faculty of Health, Science and Technology  
Oral Health

# Syllabus

## Preclinical studies for the dental hygienist, theory and method

<b>Course Code:</b>	OHG007
<b>Course Title:</b>	Preclinical studies for the dental hygienist, theory and method <i>Prekliniska studier för tandhygienistens yrkesområde, teori och metod</i>
<b>Credits:</b>	15
<b>Degree Level:</b>	Undergraduate level
<b>Progressive Specialisation:</b>	First cycle, has only upper-secondary level entry requirements (G1N)

**Major Field of Study:**  
OHA (Oral Health)

### Course Approval

The syllabus was approved by the Faculty of Health, Science and Technology 2020-03-11, and is valid from the Autumn semester 2020 at Karlstad University.

### Prerequisites

General admission requirements and upper secondary level Mathematics 2a-c, Natural Science 2 or Physics 1, Chemistry 1, and Biology 1, Civics 1b or Civics 1a1 + 1a2 (field-specific eligibility A14)

### Learning Outcomes

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

Knowledge and understanding

- Give an account of ordinances that regulate radiation protection, documentation in medical records, and confidentiality

- Give an account of basic X-ray physics, the function of the X-ray machine, the physical properties and biological effects of X-radiation
- Give an account of the emergence of the digital X-ray image and the factors that influence its technical quality
- Give an account of clinical data and medical records in dental care
- Give an account of the collection of anamnesis/case history
- Give an account of measuring instruments used for risk assessment in relation to cavities and periodontal disease
- Distinguish normal oral anatomy from cavities and periodontal disease based on X-rays
- Describe normal oral tissues and mucous membranes
- Give an account of dental materials, instruments, and equipment and their function and use for treatment within the professional area of dental hygiene
- Give an account of the basic etiology, pathogenesis, diagnostics, and prevention of caries and periodontal disease based on applicable evidence
- Explain the significance of ergonomic work procedures in dental care

#### Competence and skills

- Apply basic hygiene routines
- Apply extraoral and intraoral examination methods
- Apply methods for visual and instrumental examination of caries and periodontal diagnostics
- Apply projection science and setting techniques for odontological radiology and interpret intraoral images within the area of competence of the dental hygienist
- Carry out sharpening of instruments
- Carry out supragingivale scaling by hand and using a machine
- Carry out professional dental cleaning
- Use an ergonomic position while setting up instruments during patient treatments
- Perform CPR

#### Judgement and approach

- Demonstrate and reflect upon a professional approach
- Reflect upon sustainable development in relation to materials and instruments used in dental care
- Reflect upon their own learning and need for further knowledge

#### Content

- Ordinances regulating radiation protection, documentation in medical records, and confidentiality
- National guidelines for dental care
- Documentation in medical records
- Odontological radiology
- Normal anatomical structures in X-rays
- Characteristics of normal oral mucous membranes
- Dental materials
- Instruments and equipment used in the profession of dental hygiene
- Caries disease
- Periodontal disease
- Risk assessment instruments
- Professional dental cleaning
- Ergonomic work procedures
- CPR
- Sustainable development

#### Reading List

See separate document.

#### Examination

Assessment is based on:

- individual written exams
- seminars
- clinical examination
- an individual written report

The number of assessment opportunities is limited to five.

In order to pass the course, students also have to attend and participate in mandatory preclinical method exercises in the laboratory and the training clinic. The number of opportunities to do so is limited to two.

Results will not be reported until a student has participated in the mandatory sessions or completed supplementary assignments in accordance with instructions from the course coordinator. Failure to participate in a mandatory session may mean that the student will not be able to complete that course component until the next time the course is offered.

If students have a decision from Karlstad University entitling them to special pedagogical 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.