



**Karolinska  
Institutet**

Course syllabus for

## **Oral Health - Theory 2, 9.5 credits**

Oral hälsa - teori 2, 9.5 hp

This course syllabus is valid from spring 2024.

Please note that the course syllabus is available in the following versions:

Spring2020 , Spring2021 , Spring2023 , Spring2024

Course code	1TY003
Course name	Oral Health - Theory 2
Credits	9.5 credits
Form of Education	Higher Education, study regulation 2007
Main field of study	Oral Health
Level	G1 - First cycle 1
Grading scale	Pass with distinction, Pass, Fail
Department	Department of Dental Medicine
Decided by	Utbildningsnämnden DENTMED
Decision date	2019-03-14
Revised by	Education committee DENTMED
Last revision	2023-10-24
Course syllabus valid from	Spring 2024

## **Specific entry requirements**

Mathematics 2a or 2b or 2c, Natural Sciences 2, Social Sciences 1b or 1a1+1a2.

## **Objectives**

### **Periodontology 1, 5 credits**

After completing the course, students will be able to:

- Describe the theoretical principles when classifying periodontal disease.
- Review and present scientific research on reasons for using oral health care products and on methods for an individual oral health care routine.
- Describe how tobacco can affect oral health, and hold a discussion about its consequences at group level.
- Describe empirically-based, non-surgical treatment and its importance for periodontal health.
- Describe the mineralisation, composition and structure of dental calculus and its impact on periodontal health.
- Describe various manual instruments used for mechanical treatment of infection and their applications.

- Explain the importance of an ergonomic working method.
- Explain the importance of maintaining an empathic and professional approach when talking to patients about oral health.

### **Cariology 1, 4.5 credits**

After completing the course, students will be able to:

- Describe the aetiology, diagnosis and pathogenesis of caries disease on the basis of scientific research and evidence.
- Describe the aetiology, diagnosis, treatment and prevention of exposed root surfaces and root surface caries on the basis of scientific research and evidence.
- Describe the localisation and appearance of clinical caries lesions and calculate a caries index.
- Independently construct individual preventative programmes for cariological treatment.
- Describe the impact of saliva on oral health and general well-being.
- Describe different fluoride preparations, their mechanisms of action and toxic aspects, as well as recommendations in respect of fluoride supply.
- Describe the link between caries disease, exposed root surface, hypersensitivity and dental erosion in relation to general health and well-being.
- Describe caries prevalence and caries prevention from a global perspective, and reflect on ethical aspects at individual, group and community level.

## **Content**

This course comprises two modules:

### **Periodontology 1, 5.0 hp**

Grading scale: VU

- Theoretical principles when classifying periodontal disease.
- Non-surgical periodontal treatment methods, plus planning, implementation and anticipated results of the same.
- Tools for oral hygiene.
- Communication between student and patient on the basis of and with regard to the patient's entire living environment.
- Ergonomic working method on the basis of the dental hygienist's work situation.

### **Cariology 1, 4.5 hp**

Grading scale: VU

- Aetiology of caries disease.
- Caries damage to the enamel, dentine and root cement.
- Caries index.
- Caries risk and caries prognosis.
- Caries therapy - causal treatment.
- Fluoride preparations.
- The exposed root surface, dental erosion and dental hypersensitivity.
- Oral health and general health.

## **Teaching methods**

### **Periodontology 1, 5 credits**

Lectures, group work and seminars.

**Cariology 1, 4.5 credits**

Lectures, group work and seminar.

**Examination****Periodontology 1, 5 credits**

Examination: Written examination, written group assignment and oral presentation in seminars.

Mandatory activities: Group work and seminars.

**Cariology 1, 4.5 credits**

Examination: Written examination, written group assignment and oral presentation in seminar.

Mandatory activities: Group work and seminar.

To receive a grade of Pass with distinction for the whole course, a Pass with distinction is required for the Periodontology 1 and Cariology 1 modules.

Late submission of the written assignment means that the student cannot get the grade Pass with distinction.

The examiner decides whether, and if so how, absence from compulsory course elements can be made up. Study results cannot be reported until the student has participated in compulsory course elements or compensated for any absence in accordance with instructions from the examiner. Absence from a compulsory course element could mean that the student can not retake the element until the next time the course is offered.

Students who do not pass a regular examination are entitled to re-sit the examination on five more occasions. If the student has failed six examinations/tests, no additional examination is given. Each occasion the student participates in the same test counts as an examination. Submission of a blank exam paper is regarded as an examination. In case a student is registered for an examination but does not attend, this is not regarded as an examination.

If there are special grounds, or a need for adaptation for a student with a disability, the examiner may decide to deviate from the syllabus's regulations on the examination form, the number of examination opportunities, the possibility of supplementation or exemptions from the compulsory section/s of the course etc. Content and learning outcomes as well as the level of expected skills, knowledge and abilities may not be changed, removed or reduced.

**Transitional provisions**

If the course is discontinued or undergoes major changes, examination opportunities will be offered according to a previous list of references and intended learning outcomes for a maximum of one academic year after the implementation of the revision/discontinuation.

**Literature and other teaching aids****Mandatory literature****Patientundervisning : ett samspel för lärande**

*Klang Söderkvist, Birgitta; Kneck, Åsa*

Fjärde upplagan : Lund : Studentlitteratur, [2018] - 271 sidor

ISBN:9789144120515 LIBRIS-ID:22684770

[Library search](#)

*Klinge, Björn; Gustafsson, Anders*

**Parodontit : en introduktion**

Sjunde upplagan : Stockholm : Gothia fortbildning, [2019] - 160 sidor

ISBN:9789177411857 LIBRIS-ID:kv35tjr9h102bbbc

[Library search](#)

*Hansson, Bengt Olof; Ericson, Dan*

### **Karies : sjukdom och hål**

Femte upplagan : Stockholm : Gothia Fortbildning AB, [2019] - 160 sidor

ISBN:9789177411680 LIBRIS-ID:4fpdxrpj2t3g2t98

[Library search](#)

### **Dental caries : the disease and its clinical management**

*Fejerskov, Ole; Nyvad, Bente; Kidd, Edwina A.M.*

3. ed. : Chichester : Wiley-Blackwell, 2015 - xiv, 466 s.

ISBN:9781118935828 LIBRIS-ID:17388351

[Library search](#)

## **Recommended literature**

### **Att förebygga karies : en systematisk litteraturöversikt**

*Holm, Anna-Karin*

Stockholm : SBU, 2002 - 372 s. +e Summary and conclusions (26 s.)

ISBN:91-87890-81-X LIBRIS-ID:8755500

[Library search](#)

### **Karies - diagnostik, riskbedömning och icke-invasiv behandling : en systematisk litteraturöversikt: december 2007**

Statens beredning för medicinsk utvärdering (SBU), 2007

<https://www.sbu.se/sv/publikationer/SBU-utvarderar/karies---diagnostik-riskbedomning-och-icke-invasiv->

### **Dental erosion : bakgrund och kliniska aspekter**

*Johansson, Ann-Katrin; Carlsson, Gunnar E.*

1. uppl. : Stockholm : Gothia, 2006 - 190 s.

ISBN:91-7205-469-7 LIBRIS-ID:10280428

[Library search](#)

### **Nationella riktlinjer för tandvård: Stöd för styrning och ledning**

Socialstyrelsen, 2022

URL: <https://www.socialstyrelsen.se/>

*Alm, Anita*

### **Fluorguide för tandvårdspersonal**

Hälsoodontologiska enheten. Beställs genom: [info.folktandvarden@vgregion.se](mailto:info.folktandvarden@vgregion.se), 2019