



**Karolinska
Institutet**

Course syllabus for

Medical and odontological Subsidiary Subjects

2, 10.5 credits

Medicinska och odontologiska stödämnena 2, 10.5 hp

This course has been cancelled, for further information see Transitional provisions in the last version of the syllabus.

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

Spring2008 , Spring2011 , Spring2013 , Spring2015 , Spring2016 , Spring2017

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|----------------------------|---|
| Course code | 1TH003 |
| Course name | Medical and odontological Subsidiary Subjects 2 |
| Credits | 10.5 credits |
| Form of Education | Higher Education, study regulation 2007 |
| Main field of study | Not applicable |
| Level | GX - First cycle |
| Grading scale | Pass with distinction, Pass, Fail |
| Department | Department of Dental Medicine |
| Participating institutions | <ul style="list-style-type: none">• Department of Laboratory Medicine |
| Decided by | Programnämnden för tandhygienistprogrammet |
| Decision date | 2007-10-11 |
| Revised by | Education committee Dentmed |
| Last revision | 2015-10-13 |
| Course syllabus valid from | Spring 2016 |

Specific entry requirements

For admission to the course, it is required that at least 20 credits from semester 1 are passed.

Objectives

The course consists of three modules, 10.5 credits:

Module 1: Nutrition (Nutrition): 3.5 credits

Module 2: Cariology (Cariology): 4.5 credits

Module 3: Pharmacology (Pharmacology): 2.5 credits

Module 1: Nutrition (Nutrition): 3.5 credits

On completion of the course, the student can:

- Account for basic knowledge about nutrition from disciplinary foundation.
- Explain and understand the nutrition importance for the oral- and general health and for the general well-being.
- Account for the nutrition importance for the individual's life environment from cultural and social aspects.
- Give individually adjusted advices about the diet importance for the oral health from an ethical and professional attitude.

Module 2: Cariology (Cariology): 4.5 credits

On completion of the course, the student can:

- Account for the aetiology and pathogenesis of the caries disease from a scientific bases.
- Describe theoretically the localisation and the appearance of clinical caries lesions and calculate caries index.
- Account for diagnostics of caries activity and assessment of caries risk theoretically.
- Account theoretically for and discuss appropriate caries prophylactic measures to prevent continued disease development.
- Account for the saliva effect on the oral health and the general well-being.
- Account for different fluoride agents, their modes of action and toxic aspects and can give recommendations concerning fluoride supply.
- Account for the caries disease considering different general diseases and their effect on the mouth and account for the effect of the oral health on the general well-being from a scientific perspective.
- Account for caries prevalence from a global perspective and discuss ethical aspects and reflect on the importance of caries prevention at an individual, group and community level.

Module 3: Pharmacology (Pharmacology): 2.5 credits

On completion of the course, the student can:

- Account for basic pharmacological principles of how drugs are delivered into the body and how drugs exercise their effect.
- Account for the importance of drugs in the interplay between the oral health and the general health.
- Account for drug-related problems as, for example, adverse drug reactions/interactions and how one handles them for increased patient security.
- Handle and prescribe drugs in a safe way.
- Search for, analyse and use relevant sources of information.

Content

Nutrition, 3.5 hp This module contains:

- Oral and general health
- Diet anamnesis
- Cultural and social aspects
- Professional attitude

Cariology, 4.5 hp The module contains advanced knowledge in cariology:

- Aetiology and pathogenesis
- Caries lesions and caries index
- Caries prophylactic measures
- The importance of the saliva
- Fluoride agents

- Oral and general health
- Individual, group and community level

Pharmacology, 2.5 hp This module contains:

- Pharmacokinetics and pharmacodynamics
- Drug-related problems such as compliance, adverse drug reactions, interactions and adverse drug reactions related to the mouth and teeth.
- Laws and regulations extensive drug processing and promissory note of drugs
- Prescription
- Aspects of drug treatment during pregnancy and breastfeeding.

Teaching methods

Part 1: Nutrition (Nutrition): 3.5 HE credits

Lectures, patient cases, own work as a homework assignment, monitoring and group work around homework and self-studies.

Part 2: Cariology (Cariology): 4.5 HE credits

Lectures, group work and self-studies.

Part 3: Pharmacology (Pharmacology); 2.5 HE credits

Lectures, seminars and self-studies.

Compulsory attendance at seminars, group work and laboratories.

The course coordinator decides 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 course coordinator. Absence from a compulsory course element could mean that the student can not retake the element until the next time the course is offered.

Examination

Part 1: Nutrition (Nutrition); 3.5 HE credits

Written examination.

Part 2: Cariology (Cariology); 4.5 HE credits

Written examination.

Part 3: Pharmacology (Pharmacology); 2.5 HE credits

Written examination.

For a Pass grade in the course, attendance at compulsory parts is also required. For the grade Pass with distinction, the grade Pass with distinction in Cariology and Nutrition is required and at least the grade Pass in Pharmacology .

Limited number of examinations or practical training sessions

The students who not are passed after regular test/the assessment opportunity have the right to further five tests. If the student is not passed after six examinations no additional examination or new admission to the course is given. As the examination session count the times that the student participated in one and the same sample. Submission of blank exam counts as examination. Examination for which the student registered but not participating are not counted as examination

Transitional provisions

If the course is closed down or undergoes major changes, examination under a previous literature list and learning outcomes will be offered no more than one academic year after the implementation of the

revision/close-down.

Other directives

A course evaluation will be carried out in accordance with the guidelines established by the Board of Higher Education.

Literature and other teaching aids

Näringslära för högskolan

Abrahamsson, Lillemor; Andersson, Agneta; Becker, Wulf; Nilsson, Gerd

5. [rev.] uppl. : Stockholm : Liber, 2006 - 461 s.

ISBN:91-47-05355-0 (inb.) LIBRIS-ID:10125744

[Library search](#)

Hansson, Bengt Olof; Ericson, Dan

Karies : sjukdom och håll

3., omarb. och utök. uppl. : Stockholm : Gothia fortbildning, 2014 - 135 s.

ISBN:9789172059153 LIBRIS-ID:16777628

[Library search](#)

Farmakologi

Lindström, Erik; Norlén, Per

3. uppl. : Stockholm : Liber, 2014 - 443 s.

ISBN:9789147114221 LIBRIS-ID:16357182

[Library search](#)

Sjögren, Karin

Boken om fluor

Nurmi, Arto

Göteborg : Karin Sjögren i samarbete med Dumex-Alpharma, 1999 - 112 s.

ISBN:91-630-8384-1 LIBRIS-ID:7454022

[Library search](#)

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

Stockholm : Statens beredning för medicinsk utvärdering (SBU), 2007 - 403 s.

ISBN:9789185413218 LIBRIS-ID:10674162

URL: http://www.sbu.se/upload/Publikationer/Content0/1/Karies_2007_fulltext.pdf z Fulltext

[Library search](#)

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](#)

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](#)

Johansson, Ulla

Näring och hälsa

3., [rev.] uppl. : Lund : Studentlitteratur, 2014 - 460 s.

ISBN:9789144079820 LIBRIS-ID:16666129

[Library search](#)