



**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 |
| Decided by | Programnämnden för tandhygienistprogrammet |
| Decision date | 2007-10-11 |
| Revised by | Programnämnd 10 |
| Last revision | 2012-10-25 |
| Course syllabus valid from | Spring 2013 |

Specific entry requirements

For admission to semester 2, at least 20 credits from semester 1 should be approved

Objectives

The course consists of three parts, 10.5 HE credits:

Part 1: Nutrition (Nutrition): 1.5 HE credits

Part 2: Cariology (Cariology): 4.5 HE credits

Part 3: Pharmacology (Pharmacology): 4.5 HE credits

Part 1: Nutrition (Nutrition): 1.5 HE credits

On completion of the course, the student should:

- be able to describe basic knowledge about nutrition
- be able to explain and understand the relationship between nutrition, general and oral health

Part 2: Cariology (Cariology), 4.5 HE credits

On completion of the course, the student should:

- be able to describe the aetiology of caries disease and prophylactic principles
- be able to independently register clinical caries and calculate caries index
- be able to diagnose caries activity and caries risk
- be able to analyse the caries risk and resistance factors
- independently propose measures to reduce the risk of further caries development and with guidance be able to establish therapy plans for treatment of cariologic disease
- be able to understand the impact of saliva on oral health
- be able to describe different fluoride preparations, their modes of action and toxic aspects and be able to give adequate recommendations concerning fluoride supply.

Part 3: Pharmacology (Pharmacology), 4.5 HE credits

On completion of the course, the student should:

- have required basic knowledge within general pharmacology to understand drug kinetics and dynamic effects on the oral cavity
- be able to understand adverse drug side effects in the oral cavity and be able to report these effects
- be able to write a prescription of drugs within the profession of dental hygienist.

Content

Nutrition, 1.5 hp This part contains basic nutrition and the importance of nutrition for the general and oral health.

Overview and interpretation of diet anamnesis take place in a computer laboratory session. **Cariology, 4.5 hp**

Within this part, the student acquires a deeper knowledge of Cariology with emphasis on caries disease etiology, treatment and prevention. **Pharmacology, 4.5 hp** This part deals with pharmacology pharmacodynamics and pharmacokinetics, special pharmacology in various therapeutic areas, variability in drug response, drug therapy during pregnancy and breastfeeding, adverse drug reactions and reporting, and how to write prescriptions.

Teaching methods

Part 1: Nutrition (Nutrition): 1.5 HE credits 2,

Lecture, own work as a homework assignment, and monitoring and group work around homework using the computer program DietistXP

Part 2: Cariology (Cariology): 4.5 HE credits

Lectures, group work and self-studies.

Part 3: Pharmacology (Pharmacology); 4.5 HE credits

Lectures, seminars, laboratory sessions and self-studies.

Examination

Part 1: Nutrition (Nutrition); 1.5 HE credits

Written examination.

Part 2: Cariology (Cariology); 4.5 HE credits

Written examination.

Part 3: Pharmacology (Pharmacology); 4.5 HE credits

Written examination.

For all parts, compulsory attendance in seminars, group exercises and laboratory sessions. In case of absence, assignments that compensate the absence are provided. For the grade Pass, the grade pass with credit in Cariology and Pharmacology are required and lowest the grade Pass in Nutrition.

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

Examination according to the earlier literature list of this course syllabus is provided a year from 2013-01-01.

Other directives

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

Literature and other teaching aids

Hansson, Bengt Olof; Ericson, Dan

Karies : sjukdom och håål

Stockholm : Gothia, 2003 - 117 s.

ISBN:91-7205-375-5 LIBRIS-ID:9065282

[Library search](#)

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](#)

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](#)