

Course syllabus for

Oral Biomedicine 2, 7.5 credits

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This course syllabus is valid from spring 2020.

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

Spring2020, Spring2022, Spring2024, Spring2025

Course code 2TL053

Course name Oral Biomedicine 2

Credits 7.5 credits

Form of Education Higher Education, study regulation 2007

Main field of study Odontology

Level G1 - First cycle 1

Grading scale Pass, Fail

Department Department of Dental Medicine
Decided by Education committee DENTMED

Decision date 2019-10-31 Course syllabus valid from Spring 2020

Specific entry requirements

Biology 2, Physics 2, Chemistry 2, Mathematics 4 (field specific entry requirements A13). Or: Biology B, Physics B, Chemistry B, Mathematics D (field specific entry requirements 13).

Objectives

Oral development and anatomy, 6 hp

After completing the course the student can:

- Account for normal development of the face and oral cavity, including tooth formation, and explain how developmental disorders in these structures occur.
- Describe in detail the normal features of the tissues that build up the oral cavity, salivary glands and facial skeleton, with the use of histological images.
- Account for the structure of the tooth, distinguish between and identify primary and permanent teeth, and describe their most common morphological characteristics.
- Describe normal occlusal development and a normal dentition with a correct nomenclature.
- Mould teeth according to their specific morphological characteristics.

Oral biochemistry, 1.5 hp

After completing the course the student can:

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- Explain concepts and definitions within oral biochemistry.
- Describe the organic and inorganic components of hard tissues and how they contribute to hard tissue formation.
- Describe the organic and inorganic components of saliva.
- Explain how the chemical composition and production of saliva influences saliva function.
- Describe the biochemical composition of gingival crevicular fluid, pellicle and plaque as well as reflect on how these affect the oral environment.
- Reflect on the importance of fluoride and overall oral biochemistry in preserving the healthy oral environment.

Content

The course consists of two modules:

Oral development and anatomy, 6.0 hp

Grading scale: GU

The module covers:

- Development of the face and mouth
- Normal histology of the oral cavity, salivary glands and facial skeleton
- Normal development and anatomy of the dentition and teeth
- Normal occlusion

Oral biochemistry, 1.5 hp

Grading scale: GU

The module covers:

- Hard tissue biochemistry
- Saliva biochemistry
- Gingival crevicular fluid biochemistry
- Pellicle and plaque biochemistry
- Fluoride biochemistry

Teaching methods

Lectures, seminars, laboratories and pre-clinical training.

Examination

Oral development and anatomy, 6 hp

Examination: Written examination and structured practical test

Compulsory course elements: Seminars, certain laboratories and pre-clinical training

Oral biochemistry, 1.5 hp

Examination: Written examination Compulsory course elements: Seminars

The course coordinator 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 course coordinator. Absence from a compulsory course element could mean that the student cannot 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, the examination according to the previous literature list and learning outcomes is offered no more than one academic year after the audit /closure.

Other directives

Language of instruction: Swedish and English

Literature and other teaching aids

Compulsory literature

Nanci, Antonio

Ten cate's oral histology: development, structure, and function

9 th edition: Elsevier - Health Sciences Div, 2017 - 344 sidor

ISBN:9780323485241 LIBRIS-ID:21894221

Library search

Oral biology [electronic resource] / B.K.B. Berkovitz ... [et al.]

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LIBRIS-ID:16949045

ISBN: 9780702031229 Master Dentistry Volume 3

Recommended literature

Basic Sciences for Dental Students

Whawell, Simon A.; Lambert, Daniel W.

Hoboken, NJ: John Wiley & Sons, 2017 - 274 sidor

ISBN:9781118905579 LIBRIS-ID:20896970

Library search