

# The Dental Hygiene Study

ECTS

## Information Package



SKT  
Aarhus

2003  
DENMARK



SKT  
Copenhagen

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## Contents

1.	Introduction.....	3
2.	The Institution.....	4
2.1.	Contact Address:.....	4
	Academic Calendar.....	4
	General Description of the Institutions.....	4
	Application Procedures.....	5
3.	General Practical Information.....	6
	Insurance.....	7
4.	The Study of Dental Hygiene.....	9
4.1.	The curriculum of Dental Hygiene.....	9
	Purpose of the curriculum.....	9
	The tasks of the Dental Hygienist.....	9
	Organization of the curriculum.....	10
	Examinations and course certificates.....	10
4.2.	Overview of the subjects.....	11
	Sequence and Grades.....	11
	Hours and Credits.....	11
5.	Study Plans.....	13
5.1.	Introduction.....	13
5.2.	Basic biological and medical subjects.....	13
5.3.	Behavioral sciences and health education.....	18
	Psychology.....	18
	Pedagogy.....	19
5.4.	Clinical subjects.....	23
	Orthodontics.....	29
	Clinic.....	35
	Clinical Theory and Preparation for Patient Treatment.....	35

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## 1. Introduction

ECTS is a credit allocation system, which enables students on exchange programmes to gain credits whilst studying at other European Institutions for Higher Education as part of their accredited course.

This means that if you are studying Dental Hygiene at any of the two institutions in Denmark and are working towards a degree or diploma at your own University or College, your study is not duplicated, the period of study is not lengthened and there is transparency and consistency in the grades awarded.

The transparency and understanding of ECTS is enhanced through the following instruments:

- ***ECTS-Credits***, which are numerical values attached to study elements describing the amount of work required by the student to fulfil the obligations placed on the different study elements. ECTS-credits reflect the amount of work needed for each individual study element in relation to the total work load necessary to complete a full academic year at the institution. That includes lectures, seminars, tutorials, practical work, fieldwork, private studies and examinations or other forms of evaluation. Thus ECTS is based on a full, study relevant workload and is not limited to hours of teacher/tutor contact. In ECTS 60 credits are equivalent to one study year and the individual study elements are quantified in relation to this figure.
- ***ECTS-Information Package***, which includes written information directed towards students and staff at the institutions regarding the studies and their organisation and structure.

A high level of communication and flexibility is necessary to further the academic recognition of studies undertaken abroad. In this respect the *ECTS-Coordinators* placed on each institution play an important role by taking care of the academic and administrative aspects of ECTS.

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## 2. The Institution

### 2.1. Contact Address:

School for Dental Assistants,  
Hygienists and Clinical  
Dental Technicians  
University of Aarhus  
Vennelyst Boulevard 9  
DK-8000 Aarhus C  
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Fax: +45 8619 6621  
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University of Copenhagen  
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#### *Academic Calendar*

The academic year runs from 1 September to 30 June. It is divided into 2 semesters, September to January and February to June. Examination periods are normally placed in January and June. Summer holidays are held in July and August and autumn holidays normally during one week in October.

There are national and religious holidays as well, Christmas 2 weeks, Easter 1 week, Ascension Day, Great Prayer Day, Whit Monday and Constitution Day.

#### *General Description of the Institutions*

There are two schools of Dental Hygiene in Denmark, the one in Aarhus and the one in Copenhagen. They are formally an institution within the universities of Aarhus and Copenhagen with Rector as academic and administrative head, but they are also affiliated with the respective Faculties of Health Sciences and their Dental Schools in terms of educational and practical day-to-day procedures. An integrated training of dental and dental hygiene students is taking place as far as possible.

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A Director heads the Schools of Dental Hygiene and School Council with staff and students as elected members. The institutions also train Chairside Assistants and in Aarhus, Clinical Dental Technicians as well.

*Application Procedures*

Applications should be submitted at the start of each semester for admission to the following semester in order to allow enough time for negotiations and planning between the two institutions. Each application will be considered on an individual basis and the study plans negotiated between the two ECTS-Coordinators.

Command of a Scandinavian language is a prerequisite for following the theoretical education, which is conducted in Danish. However, English may be used individually in relation to clinical and project activities.

There is normally no tuition fee. Costs of books, white coats, laundry, safety glasses etc. are at the student's own expense. That also goes for certain expenses in connection with mandatory, extramural courses and for transportation to and from external dental clinics and institutions during trainee periods.

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### 3. General Practical Information

#### ***Formalities***

Within European Union member states people can normally move freely without barriers. However, it is advisable to contact the nearest Danish Consulate or Embassy to find information about studying and living in Denmark.

#### ***Travel information***

For up to date information about the best ways to travel to Denmark from your country, please contact your travel agency.

#### ***Cost of living***

If you are studying as part of the SOCRATES/Erasmus programme, you will not be liable to pay tuition fees. Exactly how much you would need for your living expenses depends on the standard you want to enjoy. Including rent some can make do with 3500 DKK/month and some would need up to 5000 DKK/month. These amounts are equivalent to Euro 480 and 685 respectively.

#### ***Accommodation***

The ECTS-Coordinator will assist in finding a suitable accommodation. Notice must be given at least 3 months in advance. The price may vary between 1500 and 2500 DKK per month depending on location and standard.

#### ***Insurance and Health Services***

Anyone staying in Denmark is entitled to free *emergency* hospital treatment.

##### **Students without a residence permit.**

- Students from the Nordic countries and UK are entitled to the same health services as Danes, when acute medical treatment is needed. Students from other European Union countries are also entitled to the same health services as residents of Denmark, when acute medical treatment is needed, provided they bring an E-111 formula from their home country. Students from other countries are not entitled to any free medical care except the emergency hospital treatment mentioned above, and they are urged to obtain health insurance coverage in advance.

##### **Students with a residence permit.**

- The Danish Health Insurance Scheme automatically covers students who are registered with the National Registry in Denmark after a period of 6 weeks. Students coming from EU-countries, Croatia, Iceland, Liechtenstein, Morocco, Norway, Pakistan,
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Quebec, Slovenia, Switzerland and Turkey can avoid this period of 6 weeks, if they are covered by the public health insurance scheme of their home countries and bring the necessary documentation.

### ***Insurance***

- Third party liability insurance, insurance against thefts and other kind of insurance are voluntary and may be taken care of by the students own national insurance company. Please seek advice there accordingly.

### ***Study facilities at Host Institution***

- The Institution has access to a large library with adequate research and search facilities, Medline etc. The facilities can be used free of charge. The library contains books and periodicals covering all areas in the dental hygiene study, such as biological and medical subjects, social and behavioural subjects and laboratory and clinical subjects.
- Dental clinical facilities are located on the premises along with rooms for computer work and self-study.
- A large canteen is open all day and is well stocked with food for breakfast and lunch.
- A student committee representing all 4 categories of students arranges get together parties, concerts and dances.
- Information on studying in Denmark: [www.rks.dk/studying/studyen.htm](http://www.rks.dk/studying/studyen.htm).

### ***Banks, Postal Services, Telephone and Transport***

- The monetary unit in Denmark is krone (crown), international abbreviation, DKK. You can open your own bank account in any bank upon presentation of your passport and resident address.
- Branch post offices are found in many locations all over town. Ask your host for info.
- Public telephones are scattered all over town. Use coins or phone cards.
- Denmark has a very well developed transport infrastructure with regular air-train and bus services.

### ***Emergencies***

- Should an emergency situation arise, dial 112 and ask for the adequate service, ambulance, police or fire brigade.
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***Climate, clothing and culture***

- Denmark has a temperate climate with an average of 16 degrees Celsius in the warmest month, July and minus 0.4 degrees in the coldest month, February. However for short periods it can be hot in the summer, up to 30 degrees and cold in the winter, down to minus 20 degrees. So depending on the time of the year you wish to study here, you should bring an adequate mix of clothing.
  - The Danes are normally very punctual and expect the same from others.
  - To most Danes, the Danish flag "Dannebrog" represents the quintessence of good old Danish traditions. When visiting Denmark you will see that many homes have a flagpole and fly the Dannebrog as part of almost any celebration, birthdays, anniversaries etc. It is seen as the people's flag but also as a sign of national pride.
  - The Danish language is difficult for foreigners but most people with whom you will get in contact will speak English to a varying degree of proficiency. Also German may be understood and spoken, especially in the Southern and Western part of Jutland.
  - All staff at the Institution are called by their first name.
  - The official branch of Christianity in Denmark is the Lutheran Church and its churches can be found in every city and village. The study coordinator may advise on other places of worship.
  - Places of entertainment and leisure activities may be found through the Tourist Office in the centre of Aarhus and Copenhagen. For information use the web address: [www.aarhuswebben.dk](http://www.aarhuswebben.dk) or [www.woco.dk](http://www.woco.dk).
  - Participation in sport activities is possible through numerous clubs both within and outside the university. Enquire at the Student Committee office.
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## 4. The Study of Dental Hygiene

### 4.1. The curriculum of Dental Hygiene

#### *Purpose of the curriculum*

The purpose of the Danish Dental Hygienist curriculum is for the student to acquire the theoretical knowledge, professional, ethical and critical attitudes, together with practical and clinical skills, that will qualify the graduate to undertake independently the tasks of the Dental Hygienist in Health Promotion, Prevention and Therapy according to the varying needs of society.

#### *The tasks of the Dental Hygienist*

The tasks of the dental hygienists are mainly found in the fields of Oral Health Promotion and Disease Prevention. These activities may be divided into two major groups: Clinical work and health education.

Examples of the clinical tasks of the dental hygienist are:

- Examination for common dental diseases: Dental caries, gingivitis and periodontitis along with variations in, and deviations from, normal findings
- Individual evaluation and guidance on the care of teeth and of correct nutrition and diet
- Tooth cleaning and polishing of dental fillings
- Deep scaling and root planing
- Local application of fluorides and sealants
- Treatment of dentinal hyperaesthesia
- Taking and interpreting dental x-ray films
- Making impressions for and producing dental casts
- Insertion and removal of fixed orthodontic appliances according to the prescription of a dentist
- Injection of local anaesthetics (infiltration)
- Requisitioning of certain drugs necessary in Dental Hygiene practice

Tasks relating to health education will often have to be done outside the dental clinic.

Examples of such tasks are:

- Evaluation of the need for better dental care and dietary habits
  - Planning of teaching in school classes and for groups of adults for instance in institutions and at workplaces
  - Thematic play in kindergartens and at day-care centres
  - Counselling for individuals and groups of individuals working with Dental Care
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When undertaking tasks related to health education, the dental hygienist is expected to operate in multi-disciplinary working situations, e.g. in co-operation with teachers in schools and kindergartens, staff in hospitals, nursing homes etc.

### ***Organization of the curriculum***

The curriculum contains clinical and practical exercises, demonstrations and theoretical lessons in small groups, as well as lectures for all students of that semester. The clinical training is carried out 2-3 hours daily during all semesters. There are also 6-8 weeks of extramural training, plus two minor and two major group assignments/projects. During the first semester all students and some of their teachers attend a residential course lasting 3 days. A freshman tour, for a maximum of two days is also part of the programme. On average there are 30 teaching hours a week, the daily school hours running from 08.15 – 16.30.

The students must devote considerable time for studying on their own.

All education is compulsory and conducted in Danish, except the practical exercises, where English may be used.

The details of the curriculum are shown in the study plan.

### ***Examinations and course certificates***

Most examinations are in writing. At the final Clinical Case Presentation, *however*, an oral examination is based on the student's verbal presentation of an actual case. Course certificates are mandatory prior to the student's admission to exams. Normally a student may sit for a test or an exam only three times.

Ordinary tests/exams normally take place at the end of each semester.

Exams are evaluated by external examiners appointed by the Ministry of Education or by staff members acting as internal examiners. The student's performance is marked, either by the 13-scale, in conformity with the rules laid down for Danish Institutions for Higher Education (6 being the pass mark), or as "Passed/Failed". Course certificates are issued when the student has followed all the prescribed courses and has satisfactorily performed the qualifying tests and exercises.

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## 4.2. Overview of the subjects

### *Sequence and Grades*

### *Hours and Credits*

Subjects	1. semester	2. semester	3. semester	4. semester	5. semester	ECTS grade	Danish grade
<b>Basic biological and medical subjects:</b>							
Anatomy	•	•				A-F	AAR P/F CHP 00-13
Nutrition & Diet		•				AAR P/F, CPH A-F	AAR P/F /CPH 00-13
Pharmacology		•	•			A-F	00-13
Physiology	•	•				A-F	00-13
General Medicine		•	•			A-F	00-13
Microbiology	•					P/F	P/F
Dental Morphology	•					P/F	P/F
<b>Behavioural Sciences and Health Education:</b>							
Psychology	•	•	•	•		A-F+CC	00-13+CC
Pedagogy	•	•	•			A-F+CC	00-13+CC
Community Dentistry		•	•	•			CC
Dental literature & materials			•	•		P/F+CC	P/F+CC
Organization and planning				•		P/F+CC	P/F+CC
Workplace/Environment & Safety					•	P/F+CC	P/F+CC
Health Education Project					•	A-F+CC	00-13+CC
<b>Clinical Subjects</b>							
Occlusal Physiology		•				A-F	00-13
Cariology/Endodontics	•	•	•	•	•	A-F+CC	00-13+CC
Gerodontology			•		•	CC	CC
Oral Health Care for the Handicapped				•		CC	CC
Local Anesthesia			•			CC	CC
Practice Administration & Accounts				•		CC	CC
Oral Pathology & Medicine			•			CC	CC
Oral Prosthetics			•	•		CC	CC
Orthodontics			•	•		P/F+CC	P/F+CC
Periodontology	•	•	•	•		A-F	00-13
Pedodontics		•	•			A-F	00-13
Radiology		•	•	•		A-F+CC	00-13+CC
Oral Surgery				•		CC	CC
<b>Clinic</b>							
Clinical Theory	•	•	•			CC	CC
Patient Attendance	•	•	•	•	•	CC	CC
Case Presentation				•	•	A-F	00-13
Sterilisation & Hygiene	•		•			CC	CC
First Aid		•				CC	CC
Ergonomics						CC	CC

AAR = Århus

CPH = Copenhagen

CC = Course Certificate

P/F = Passed/Failed

A-F= ECTS grading

	Total hours	Weight factor	Weighted hours	ETCS
<b>Basic biological and medical subjects:</b>	<b>249</b>		<b>747</b>	<b>25</b>
Anatomy			159	5,5
Nutrition & Diet	24		72	2,5
Pharmacology	36			3,5
Physiology			114	4,0
General Medicine	40			4,0
Microbiology		3	99	3,0
Dental		3	75	2,5
<b>Behavioural Sciences and Health Education:</b>	<b>542</b>		<b>1211</b>	<b>40</b>
Psychology				8,5
Pedagogy				8,0
Community Dentistry	75	2		5,0
Dental literature & materials	37	2		2,5
Organization and planning	36	2	72	2,5
Workplace/Environment & Safety	16	2	32	1,0
Health Education Project	127	3	381	12,5
<b>Clinical Subjects</b>	<b>1648</b>		<b>2572</b>	<b>85</b>
Occlusal Physiology	15		45	1,5
Cariology/Endodontics				6,0
Gerodontology	19	3		2,0
Oral Health Care for the Handicapped	23	2	46	1,5
Local Anesthesia	17	2		1,0
Practice Administration & Accounts	23	2	46	1,5
Oral Pathology & Medicine	17	3		1,5
Oral Prosthetics	17	3		1,5
Orthodontics	70	2		4,5
Periodontology				6,5
Pedodontics	40			4,0
Radiology	78			5,0
Oral Surgery	9	2	18	0,5
Clinic	1196	1-2	1436	48,0
Clinical Theory				
Patient Attendance				
Case Presentation				
Sterilisation & Hygiene				
First Aid				
Ergonomics				
				<b>150</b>

”Weighted hours”, conversion factors according to the following standards for the student’s work load:

- ”Light theory”                                    1 hour preparation per school hour
- ”Heavy theory”                                   2 hours preparation per school hour
- Practical/clinical exercises                normally no preparation

## 5. Study Plans

### 5.1. Introduction

The Dental Hygiene study in Denmark covers 5 semesters (2½ years) with a net study period of 100 weeks of obligatory attendance. This corresponds to 150 ECTS credits. The Dental Hygienist Education is a mainly clinical/pedagogical oriented study enabling the candidate to perform basic oral health care for the population. The three main areas of study elements are:

1. *Basic Biological and Medical subjects*
2. *Behavioural Sciences and Health Education*
3. *Clinical Subjects, Theory and Practice*

A detailed overview of the subjects belonging to the 3 main areas, including teaching hours, test forms and grading, is shown in the overviews. Each subject is weighted according to the actual workload connected with preparation for each hour at school. This weighting ranges from 3 to 0. The weight of each subject is listed in the overview and reflected in the credits given.

### 5.2. Basic biological and medical subjects

This part covers the theoretical background needed for treating patients with oral diseases. Each of the subjects will be described in the following:

<b>Anatomy &amp; Physiology</b>	ECTS information	
	Period	1. og 2. semester
	Credit	9,5 – mean AAR/Cph
	Grades	AAR P/F, Cph
	Language	Danish
<b>Form:</b>	Lectures, seminars and clinical exercises.	
<b>Objectives:</b>	The student must acquire: <ul style="list-style-type: none"> <li>- broad knowledge of the build up and functions of the body</li> <li>- detailed knowledge of oral anatomy</li> <li>- knowledge of anatomy sufficient to support the training in First Aid</li> <li>- detailed knowledge of the functions of the oral cavity</li> </ul>	
<b>Content:</b>	<ul style="list-style-type: none"> <li>- Introduction</li> <li>- Structures of the oral cavity</li> <li>- Masticatory muscles and temporomandibular joint</li> <li>- Cells and tissues</li> <li>- The locomotive system</li> <li>- The digestive system</li> <li>- The vascular system</li> <li>- The nervous system</li> <li>- The respiratory system</li> <li>- The hormonal system</li> <li>- The urinary system</li> </ul>	
<b>Evaluation:</b>	Written examination at the end of 2nd Semester.	

<i>Nutrition &amp; Diet</i>		ECTS information	
		Period	2. semester
Grades	AAR P/F, Cph 0-13/A-F	Language	Danish

**Form:** Lectures, practical exercises, computer based education.

**Objectives:** The student must have:

- knowledge of the essential nutritional elements and their impact on body functions
- knowledge of official recommendations on human energy- and nutritional needs
- acquaintance with the composition of health promoting food, including the seven nutritional rules.
- acquaintance with the choice of food in different population groups
- understanding of food declarations
- sufficient knowledge of general nutritional principles to distinguish between healthy and non-healthy food

**The student must be able to:**

- understand the factors determining dietary habits
- determine, based on a dietary anamnesis, possible irregularities in the food intake of individuals and groups of people
- render concrete suggestions to realistic changes in the food habits of individuals both in relation to dental diseases and to their general health
- communicate with other health professionals regarding diet, dietary counselling and general principles of nutrition

**Content:**

- Introduction
- Energy needs and energy balance
- Energy producing nutritional elements
- Vitamins and minerals
- Nutritional needs and recommended intake
- Laws regarding food
- Danish normal diet
- Diet for pregnant/nursing women and infants
- Diet for elderly
- Modern diet and welfare diseases
- Food allergy/intolerance
- Food for special groups
- Dietary anamnesis and counselling
- Practical exercises

**Evaluation:** Written examination at the end of 2nd Semester. An approved practical test in diet interview technique is a prerequisite for entering the examination.

<b>Pharmacology</b>	ECTS information	
	Period	2. and 3. semester
	Credits	3,5 – mean AAR/Cph
	Grades	33-12 / A-F
	Language	Danish
<b>Form:</b>	Lectures and seminars.	
<b>Objectives:</b>	The student must:	
	<ul style="list-style-type: none"> <li>- be familiar with pharmacological terms</li> <li>- independently be able to evaluate the effect and possible side effects of those medicines commonly used by dental patients of all age groups</li> <li>- be able to differentiate between risk patients and ordinary patients</li> </ul>	
<b>Content:</b>	<ul style="list-style-type: none"> <li>- Metabolism of drugs</li> <li>- Laws on pharmaceutical products</li> <li>- Drugs for pain- and infection control</li> <li>- Steroids</li> <li>- Hemostatic agents</li> <li>- Special medicines used in dental practice</li> <li>- Pharmacological treatment of systemic diseases of consequence for dental practice</li> <li>- Drugs and pregnancy</li> </ul>	
<b>Evaluation:</b>	Written examination at the end of 3rd Semester.	

<b>General Medicine</b>	ECTS information	
	Period	2. and 3. semester
	Credits	4,0 – mean AAR/Cph
	Grades	00-13 / A-F
	Language	Danish
<b>Form:</b>	Lectures and seminars.	
<b>Objectives:</b>	The student must:	
	<ul style="list-style-type: none"> <li>- be familiar with the general medical diseases</li> <li>- independently be able to evaluate the influence of these diseases on dental treatment</li> <li>- independently be able to take correct precautions when treating patients with above mentioned diseases</li> <li>- be able to judge which risk patients need to be referred to a dentist before dental treatment is started.</li> </ul>	
<b>Content:</b>	<ul style="list-style-type: none"> <li>- The causes and general symptoms of diseases and injuries</li> <li>- Diseases of the locomotive system, nervous system, skin, vasculatory system, respiratory system, urinary system and the digestive system</li> <li>- Allergic, endocrinological, metabolic, infectious and hereditary diseases</li> <li>- Cancer</li> <li>- Wounds and other injuries</li> <li>- Transplantation of tissues and organs</li> <li>- Poisoning</li> <li>- Geriatric diseases</li> <li>- Risk patients</li> </ul>	
<b>Evaluation:</b>	Written examination at the end of 3rd Semester.	

<b>Microbiology</b>	ECTS information	
	Period	1. semester
	Credits	3,0 – mean AAR/Cph
	Grades	P/F
	Language	Danish
<b>Form:</b>	Lectures.	
<b>Objectives:</b>	<p>The student must be able to account for:</p> <ul style="list-style-type: none"> <li>- Important features of bacteria, yeasts and vira</li> <li>- The occurrence, benefits, disadvantages, pathogenecity and virulence of microorganisms</li> <li>- Infection and contamination. Principles for clinical hygiene</li> <li>- Body resistance and immune system. Natural and aquired immunity. <b>Vaccination</b></li> <li>- Main features of relevant infectious diseases</li> <li>- Main features of the ecology and composition of the oral microflora</li> <li>- Dental plaque. Its formation, composition and relevant biochemical processes</li> <li>- Main features of the microbiology of dental caries and periodontitis</li> <li>- Principles of plaque control</li> </ul> <p>The student must be able to:</p> <ul style="list-style-type: none"> <li>- Understand and use professional terminology within medical/dental microbiology and clinical hygiene</li> <li>- Evaluate infection risks within the dental clinic</li> <li>- Plan and implement clinical hygiene to prevent contamination</li> <li>- Apply knowledge of microbiology in a motivating instruction of patients</li> </ul>	
<b>Content:</b>	<ul style="list-style-type: none"> <li>- Description of microorganisms, their occurrence, benefits and disadvantages</li> <li>- Bacteriological tests and diagnostic procedures</li> <li>- Microflora on skin and mucous membranes</li> <li>- Pathogenecity and virulence</li> <li>- Contamination and infection</li> <li>- Sterilization and disinfection</li> <li>- Clinical hygiene</li> <li>- Resistance, natural and aquired</li> <li>- Antimicrobial chemotherapy</li> <li>- Infectious diseases</li> <li>- Microflora of the oral cavity</li> <li>- Microbiology of dental caries and periodontitis</li> </ul>	
<b>Evaluation:</b>	Written examination at the end of 1st Semester.	



<b>Dental Morphology</b>	ECTS information	
	Period	1. semester
	Credits	2,5 – mean AAR/Cph
	Grades	P/F
	Language	Danish
<b>Form:</b>	Lectures and practical exercises.	
<b>Objectives:</b>	<p>The student must:</p> <ul style="list-style-type: none"> <li>- be familiar with dental terminology used for individual teeth and dentition</li> <li>- be able to apply relevant dental anatomical terminology</li> <li>- be able to account for the principal external tooth morphology</li> <li>- be able to describe the external morphology of the deciduous and permanent teeth</li> <li>- be able to identify individual teeth</li> <li>- be able to account for the formation and eruption of the dentition</li> <li>- be able to account for abnormalities in the dental hard tissues</li> </ul> <p>The acquired knowledge must be applicable for:</p> <ul style="list-style-type: none"> <li>- Registration of dental status</li> <li>- Polishing of dental restorations</li> <li>- Periodontal treatment</li> <li>- Diagnosis of abnormalities in the dentition</li> <li>- Health education</li> </ul>	
<b>Content:</b>	<ul style="list-style-type: none"> <li>- Nomenclature</li> <li>- The temporary and permanent dentition</li> <li>- Tooth formation and eruption</li> <li>- Disturbances of mineralization</li> </ul>	
<b>Evaluation:</b>	Written examination at the end of 1st Semester in combination with a practical test in tooth identification.	

### 5.3. Behavioral sciences and health education

<i>Psychology</i>	ECTS information	
	Period	1., 2, 3. and 4. semester
	Credits	8,5 – mean AAR/Cph
	Grades	00-13 / A-F and CC
	Language	Danish
<b>Form:</b>	Lectures, group work, practical/clinical exercises.	
<b>Objectives:</b>	<p>The student must:</p> <ul style="list-style-type: none"> <li>- attain an understanding of the integration between nature/humans/society and its influence on the personality and life of the individual</li> <li>- acquire knowledge of- and insight in – the different developmental phases in man, their prerequisites, prominence and significance for the possibilities and continued growth of the individual</li> <li>- acquire the prerequisites for personal consideration and action in relation to people in marginal situations (crisis, pain, illness)</li> <li>- acquire knowledge of- and practical skills in- communication, cooperation and problem solving</li> <li>- develop ability to combine professional insight with intuition and empathy in relation to patients, colleagues and other cooperation partners</li> </ul>	
<b>Content:</b>	<ul style="list-style-type: none"> <li>- Developmental Psychology</li> <li>- Normality and Deviation</li> <li>- Communication</li> <li>- Health Psychology</li> <li>- Clinical Psychology</li> <li>- ”Multidisciplinary” analysis</li> </ul>	
<b>Evaluation:</b>	<p>AAR: Group examination with individual grading at the end of 4<sup>th</sup> semester            CPH: Written examination at the end of 3<sup>rd</sup> semester            Course Certificate issued on the basis of active participation in the educational process.</p>	

<b>Pedagogy</b>	ECTS information	
	Period	1., 2, and 3. semester
	Credits	8,0 – mean AAR/Cph
	Grades	00-13 / A-F and CC
	Language	Danish
<b>Form:</b>	Lectures with practical, project oriented exercises.	
<b>Objectives:</b>	<p>The student must:</p> <ul style="list-style-type: none"> <li>- acquire presuppositions for making decisions on learning, education, instruction, guidance, conversation and management</li> <li>- acquire knowledge on pedagogic theories and practice</li> <li>- acquire skills in planning, implementing and evaluating learning processes and educational progress with due regard to the actual presuppositions of the participants (class, group, individual)</li> <li>- develop ability to combine professional insight with intuition and empathy in relation to patients, colleagues and other cooperation partners</li> <li>- be able to work in a holistic and creative way</li> </ul>	
<b>Content:</b>	<ul style="list-style-type: none"> <li>- Health Pedagogy</li> <li>- Didactic considerations (child to adult)</li> <li>- Methodological considerations</li> <li>- Educational methods and materials</li> <li>- Preparation of educational and information material</li> <li>- Formulation of goals for evaluation of education projects</li> <li>- Planning and implementing actual education projects</li> <li>- Formulation of goals for evaluation of health education projects</li> <li>- Pedagogics for adults</li> </ul>	
<b>Evaluation:</b>	<p>AAR: Individual written examination at the end of 5th Semester. Group examination with individual grading in connection with oral examination during presentation of the study project.</p> <p>CPH: Written examination at the end of 2<sup>nd</sup> semester</p> <p>Course Certificate issued subject to active participation in the educational process.</p>	

<b>Community Dentistry</b>	ECTS information	
	Period	2., 3, and 4. semester
	Credits	5,0 – mean AAR/Cph
	Grades	CC
	Language	Danish
<b>Form:</b>	Lectures, group work, project oriented exercises.	
<b>Objectives:</b>	<p>The student must:</p> <ul style="list-style-type: none"> <li>- be familiar with the Danish health system and the laws covering this system</li> <li>- understand the factors relevant for human oral health behaviour</li> <li>- be able to describe the distribution of dental diseases in the Danish population</li> <li>- be familiar with the municipal oral health care system, its target groups and the laws covering the system</li> <li>- be familiar with the attitudes of different cultures towards oral health</li> <li>- be able to describe the knowledge, attitudes and behaviour of the Danish population in relation to oral health</li> <li>- be familiar with the oral health care organization and the staff categories working within this organization</li> <li>- be able to understand what factors are relevant for the utilization of the oral health care system in Denmark</li> <li>- know in detail the laws and regulations covering the authorization and work of the dental hygienist</li> <li>- know the laws and treatment possibilities for handicapped persons</li> <li>- be familiar with the basic methods of evaluating and monitoring the distribution of dental diseases in the population</li> <li>- be able to participate in the overall planning of preventive dentistry projects within a localized area</li> <li>- build up a critical attitude towards statements on professional, political and health related issues</li> </ul>	
<b>Content:</b>	<p>The education is built up around 4 main themes:</p> <ul style="list-style-type: none"> <li>- Community Dentistry in general</li> <li>- Children/oral health care/society</li> <li>- Adults/oral health care/society</li> <li>- Methods for collection of data</li> </ul>	
<b>Evaluation:</b>	Course Certificate issued subject to active participation in group work and seminars. Reports and concluding tests are used as basis for a pass/non pass grading.	

<b>Organization and planning of municipal oral health care</b>	ECTS information	
	Period	4. semester
	Credits	2,5 – mean AAR/Cph
	Grades	P/F and CC
	Language	Danish
<b>Form:</b>	Group work in cooperation with dental students.	
<b>Objectives:</b>	<p>The student must be able to participate in a general evaluation of the public municipal oral health services:</p> <ul style="list-style-type: none"> <li>- participate in the evaluation of the oral health situation in the target group of the municipal oral health services, including identification of unsolved oral health problems in a given municipality</li> <li>- participate in the evaluation of already existing goals and contribute to the preparation of new goals</li> <li>- discuss the theories behind – and the principles for – the preventive activities in the municipal oral health care system</li> <li>- participate in the preparation of methods of evaluation</li> <li>- understand the coherence between identified oral health problems, preparation of goals, selection of materials and methods, evaluation</li> <li>- participate in the preparation of a 5 year activity plan for a small municipal oral health service, including economic calculations concerning the use of resources</li> </ul>	
<b>Content:</b>	<ul style="list-style-type: none"> <li>- Organization of municipal oral health services</li> <li>- The situation of the municipal oral health services in general</li> <li>- Evaluation of the oral health care problems in a given municipality</li> <li>- Preparation of a 5 year action plan for a given municipality including objectives, methods, evaluation and use of resources</li> <li>- Preparation of report</li> </ul>	
<b>Evaluation:</b>	Course Certificate issued subject to active participation in the educational process. Written group test (report) with individual grading after 4 <sup>th</sup> semester.	

<b>Workplace Environment and Safety</b>	ECTS information	
	Period	5. semester
	Credits	1,0 – mean AAR/Cph
	Grades	P/F and CC
	Language	Danish
<b>Form:</b>	Lectures, exercises.	
<b>Objectives:</b>	<p>The student must:</p> <ul style="list-style-type: none"> <li>- know the laws and regulations regarding environmental problems at the clinic</li> <li>- be able to assume responsibility for employees safety at the clinic</li> <li>- be able to evaluate and select the processes and materials used to ensure that working conditions are kept at a responsible level of safety</li> </ul>	
<b>Content:</b>	<ul style="list-style-type: none"> <li>- Laws and regulations on workplace environment</li> <li>- Legal responsibilities and duties</li> <li>- Organisation of safety in work procedures</li> <li>- Arrangement of workplace</li> <li>- Regulations for the use and storage of chemicals and materials</li> <li>- Toxicology (amalgam, prosthetic materials, nitrous oxide)</li> </ul>	
<b>Evaluation:</b>	Course certificate issued subject to active participation in the educational process plus final test.	

<b><i>Health Education Project</i></b>	ECTS information	
	Period	5. semester
	Credits	12,5 – mean AAR/Cph
	Grades	00-13 / A-F and CC
	Language	Danish
<b>Form:</b>	Lectures, group work, plenum discussions.	
<b>Objectives:</b>	<p>The student must:</p> <ul style="list-style-type: none"> <li>- acquire knowledge and practical skills in communication, cooperation and problem solving</li> <li>- work in a project oriented manner and keep a cohesion between the phases of the project</li> <li>- analyse, describe and explain the problems faced in a particular health education project</li> <li>- describe the presuppositions, needs and possibilities for a health educational input in the project area</li> <li>- initiate and utilize cooperation with other professions</li> <li>- implement a goal oriented health education project</li> <li>- describe the results of the project including a critical review of the experiences gained</li> <li>- present to an audience and in a report the above results, experiences and critical remarks</li> <li>- be aware of the choice of pedagogical methods and describe them in the report and in the oral presentation</li> </ul>	
<b>Content:</b>	<ul style="list-style-type: none"> <li>- Selection of target group</li> <li>- Planning, implementation and evaluation of the project</li> <li>- Report writing</li> <li>- Presentation of the health education project</li> </ul>	
<b>Evaluation:</b>	Internal group examination with individual grading Course Certificate issued subject to active participation in the educational process.	
<b><i>Evaluation of Dental Literature and Materials</i></b>	ECTS information	
	Period	3. and 4. semester
	Credits	2,5 – mean AAR/Cph
	Grades	P/F and CC
	Language	Danish
<b>Form:</b>	Seminars, exercises.	
<b>Objectives:</b>	<p>The student must:</p> <ul style="list-style-type: none"> <li>- acquire sufficient knowledge of scientific principles to be able to evaluate critically test results of materials and methods found in the dental literature and in commercial brochures</li> <li>- be able to evaluate his/her own results and methods of treatment using objective criteria</li> <li>- be able to search out relevant information for use in prevention and treatment of dental diseases, literature search and IT-education</li> </ul>	
<b>Content:</b>	<ul style="list-style-type: none"> <li>- Essential conceptions for evaluation of clinical investigations</li> <li>- Demands on new materials</li> </ul>	
<b>Evaluation:</b>	Course Certificate issued subject to active participation in the educational process plus final test.	

## 5.4. Clinical subjects

<b>Occlusal Physiology</b>	ECTS information	
	Period	2. semester
	Credits	1,5 – mean AAR/Cph
	Grades	00-13 / A-F
	Language	Danish
<b>Form:</b>	Lectures and practical exercises.	
<b>Objectives:</b>	<p>The student must:</p> <ul style="list-style-type: none"> <li>- know the build up and function of the masticatory system</li> <li>- be able to describe the anatomy and function of the temporomandibular joint and the masticatory muscles</li> <li>- know the moving pattern of the mandible</li> <li>- be able to describe morphological and functional occlusion</li> <li>- be able to describe and carry out an introductory, clinical examination of the masticatory system</li> <li>- identify occlusal and masticatory abnormalities</li> <li>- know the possibilities for treatment of masticatory dysfunctions and refer if necessary</li> <li>- be able to explain the relationship between masticatory dysfunctions and tooth loss, malocclusion, bruxism</li> </ul>	
<b>Content:</b>	<ul style="list-style-type: none"> <li>- The masticatory system in general</li> <li>- Anatomy and function of the temporomandibular joint</li> <li>- Anatomy and function of the masticatory muscles</li> <li>- Movements of the mandible</li> <li>- Morphological and functional occlusion</li> <li>- Anamnesis for dysfunctional abnormalities</li> <li>- Examination for- and identification of- dysfunctional abnormalities</li> <li>- Information about treatment possibilities</li> <li>- Duties of the dental hygienist in relation to dysfunctional abnormalities</li> </ul>	
<b>Evaluation:</b>	Written examination after 2 <sup>nd</sup> semester.	

<i>Cariology, Endodontics, Dental Pathology</i>		ECTS information	
		Period	1., 2., 3., 4. and 5. semester
Credits	6,0 – mean AAR/Cph		
Grades	00-13 / A-F and CC		
Language	Danish		

**Form:** Lectures, group work.

**Objectives:** The student must be able to:

- explain the caries process
- account for the principles and use of the most common caries indices
- account for the caries prevalence in the Danish population
- account for the ethiology of caries
- account for the clinical and radiological appearance of caries and for the most commonly used treatments
- account for the action mechanism of fluoride , its toxicology and use in prevention of caries
- account for formation of plaque and methods of its control plus its importance for the caries process
- account for the function of saliva and methods to relieve dryness of the mouth
- account for the cariogenicity of different carbohydrates
- account for the principles for evaluation of cost-effectiveness of different prophylactic methods
- evaluate the activity in a caries attack
- evaluate his/her own preventive results in relation to objective criteria
- deal critically with materials and literature on caries diagnosis, prevention and treatment
- explain how different factors may influence the caries risk of an individual
- account for the most commonly found disturbances of mineralization of teeth
- treat peripheral dentin hypersensitivity according to recognized principles

**Content:**

- The caries process, epidemiology, ethiology and clinical/radiological appearance
- Caries prevention in individuals and groups
- Cost-effectiveness in prophylaxis/treatment of initial caries
- Developmental disturbances of teeth
- Caries therapy
- The action mechanisms and toxicology of fluoride
- Evaluation of the caries promoting effect of foods
- Evaluation of the caries risk of an individual
- Peripheral dentin hypersensitivity, its ethiology, pathogenesis, epidemiology and treatment
- Differential diagnosis of pain originating from dental caries, peripheral dentin hypersensitivity and from infection in the marginal and periapical periodontium

**Evaluation:** Written examination after 4<sup>th</sup> semester (AAR) or after 5<sup>th</sup> semester (CPH). CPH: Course Certificate issued subject to active participation in the learning process.



<i>Gerodontology</i>		ECTS information	
		Period	3. and 5. semester
Credits	2,0 – mean AAR/Cph		
Grades	CC		
Language	Danish		
<b>Form:</b>	Lectures, group work, extramural activities.		
<b>Objectives:</b>	<p>The student must:</p> <ul style="list-style-type: none"> <li>- be acquainted with the laws concerning care for the elderly</li> <li>- know what type of people they are liable to meet in old age homes</li> <li>- know the biological age changes of aging and the diseases that may follow</li> <li>- know the basic psychological conditions in elderly, developmental as well as social</li> <li>- be able to communicate with elderly people, verbally as well as non-verbally</li> <li>- acquire insight in the psychological conditions around the death process, including terminal oral health care</li> <li>- be able to decide whether the benefit of treatment has a proper relationship to the possible inconveniences of such treatment</li> <li>- know the basic types and actions of medicine for the elderly</li> <li>- be able to identify mycotic and other lesions of the oral mucosa and know the treatment of such lesions</li> <li>- acquire insight in the oral health care for the elderly</li> <li>- be able to work with and supervise other professional groups</li> <li>- in theory and practice be able to handle hygiene problems in oral health care for the elderly</li> </ul>		
<b>Content:</b>	<ul style="list-style-type: none"> <li>- Laws and Sociology in relation to the target groups for oral health care for the elderly</li> <li>- Inhabitants of the old age homes</li> <li>- Biological age changes</li> <li>- Psychology for the elderly and the death process</li> <li>- Lesions of the oral mucosa and the use of medicine for the elderly</li> <li>- Oral health care programs for the elderly in selected municipalities</li> <li>- Oral health care for elderly as a lifetime job for dental hygienists</li> <li>- Infection risks and their prevention in the oral health care for elderly</li> <li>- Suggestions for practical solutions to hygiene problems in the oral health care for elderly</li> </ul>		
<b>Evaluation:</b>	Course Certificate issued on the basis of active participation in the educational activities.		

<b>Oral Health Care for the Handicapped</b>	ECTS information	
	Period	4. semester
	Credits	1,5 – mean AAR/Cph
	Grades	CC
	Language	Danish
<b>Form:</b>	Lectures.	
<b>Main objective:</b>	- that the student acquires interest in, and understanding of, patients with handicaps.	
<b>Other objectives:</b>	<p>The student must:</p> <ul style="list-style-type: none"> <li>- acquire knowledge of the different physical and psychological handicaps</li> <li>- acquire knowledge of the barriers of communication and the possibilities for treatment of patients with handicaps</li> <li>- become aware of the individual pedagogic/psychological considerations needed when planning oral health care for handicapped</li> </ul>	
<b>Content:</b>	<ul style="list-style-type: none"> <li>- blind patients and patients with poor eyesight</li> <li>- cancer patients</li> <li>- psychiatric patients</li> <li>- patients with developmental handicaps</li> <li>- children with handicaps</li> </ul>	
<b>Evaluation:</b>	Course Certificate issued on the basis of active participation in the educational process.	
<b>Local Anaesthesia (infiltration)</b>	ECTS information	
	Period	4. semester
	Credits	1,5 – mean AAR/Cph
	Grades	CC
	Language	Danish
<b>Form:</b>	Lectures, video demonstration, clinical exercises.	
<b>Objectives:</b>	<p>The student must:</p> <ul style="list-style-type: none"> <li>- know the principles for applying local anaesthesia in the oral cavity</li> <li>- know in detail the anatomy of the nervous system in the maxillo-facial area</li> <li>- know the pharmacological characteristics of local anaesthetics and their mode of action</li> <li>- know the different ways of obtaining local anaesthesia in the oral cavity</li> <li>- be able to apply local infiltration anaesthesia for painless treatment of teeth and periodontal structures</li> <li>- know the complications associated with the use of local anaesthesia and be able to handle such complications</li> </ul>	
<b>Content:</b>	<ul style="list-style-type: none"> <li>- Definitions and anatomy</li> <li>- Pharmacology of local anaesthetics</li> <li>- Equipment for local anaesthesia</li> <li>- Topical and Infiltration anaesthesia</li> <li>- Injection technique incl. intraligamentary approach</li> <li>- Complications to local anaesthesia and their treatment</li> </ul>	
<b>Evaluation:</b>	Course Certificate based on active participation in the educational activities Written test at the end of 3 <sup>rd</sup> semester and a practical clinical test	

<b>Oral Pathology and oral Medicine</b>	ECTS information	
	Period	3. semester
	Credits	1,5 – mean AAR/Cph
	Grades	CC
	Language	Danish
<b>Form:</b>	Lectures.	
<b>Objectives:</b>	<p>The student must be able to:</p> <ul style="list-style-type: none"> <li>- describe the clinical reaction patterns of the oral mucosa</li> <li>- identify and describe the clinical changes in the oral mucosa following oral diseases or manifestations of general diseases</li> <li>- decide whether the actual lesion needs to be referred to a dentist</li> <li>- carry out and evaluate prophylactic measures in connection with oral mucosal diseases according to prescriptions by – and in cooperation with – a dentist</li> </ul> <p>The student must be acquainted with:</p> <ul style="list-style-type: none"> <li>- causes of, and treatment possibilities for, lesions in the oral mucosa</li> <li>- diagnostic methods</li> </ul>	
<b>Content:</b>	<ul style="list-style-type: none"> <li>- Clinical reaction patterns of the oral mucosa, diagnostic methods, principles for treatment</li> <li>- Normal variations</li> <li>- Mechanical lesions</li> <li>- Tobacco related changes</li> <li>- Infections of the oral mucosa</li> <li>- Denture induced changes</li> <li>- Oral manifestations of skin – and connective tissue diseases</li> <li>- Cancer and precancer</li> <li>- Benign tumors and tumorlike conditions of the oral mucosa</li> <li>- Diseases of the tongue</li> <li>- Xerostomia</li> </ul>	
<b>Evaluation:</b>	Course certificate at the end of 3 <sup>rd</sup> (CHP) and 5 <sup>th</sup> semester (AAR).	

<i>Oral Prosthetics</i>		ECTS information	
		Period	3. and 4. semester
Credits	1,5 – mean AAR/Cph		
Grades	CC		
Language	Danish		
<b>Form:</b>	Lectures and seminars. Clinical and laboratory exercises.		
<b>Objectives:</b>	<p>The student must:</p> <ul style="list-style-type: none"> <li>- know the different prosthetic appliances, their advantages and disadvantages</li> <li>- be able to guide and inform the patient about different prosthetic treatments</li> <li>- inform the patient about prosthetic hygiene</li> <li>- diagnose complications and conditions demanding treatment in relation to existing prosthetic appliances</li> <li>- suggest preliminary relief for prosthetic problems</li> <li>- know the basic repair options and corrections enabling him/her to refer correctly to a dentist or a clinical dental technician</li> <li>- be able to render relief for minor problems</li> </ul>		
<b>Content:</b>	<p>Theoretical part:</p> <ul style="list-style-type: none"> <li>- definition of dental prosthetics</li> <li>- indications for prosthetic treatment</li> <li>- technical procedures in the manufacturing of fixed dental prostheses</li> <li>- overview of different types of fixed prostheses, crown &amp; bridge, inlays</li> <li>- oral hygiene in relation to fixed prosthetic appliances</li> <li>- introduction to and definition of dentures</li> <li>- prosthetic hygiene</li> <li>- technical overview of the manufacture of dentures</li> <li>- implants</li> <li>- complications in relation to already existing prosthetic appliances</li> </ul> <p>Practical part:</p> <ul style="list-style-type: none"> <li>- correction for denture sorces</li> <li>- repair of broken dentures</li> <li>- application of lost tooth</li> <li>- renovation and polishing</li> <li>- manufacture of standard wax bite</li> </ul>		
<b>Evaluation:</b>	Course certificate issued at the end of 4 <sup>th</sup> semester based on documented presence.		

<b>Orthodontics</b>	ECTS information	
	Period	3. and 4. semester
	Credits	4,5 – mean AAR/Cph
	Grades	P/F and CC
	Language	Danish
<b>Form:</b>	Lectures and practical exercises.	
<b>Objectives:</b>	<p>The student must:</p> <ul style="list-style-type: none"> <li>- know and name the abnormalities of the dental arches, of the occlusion, of the alignment of teeth and of their function</li> <li>- describe in general terms the normal and pathological development of the face and jaws</li> <li>- instruct and motivate orthodontic patients in proper oral hygiene and diet</li> <li>- according to instructions from the dentist be able to.</li> <li>- prepare registration material</li> <li>- manufacture, insert and remove components of orthodontic appliances</li> <li>- instruct and motivate orthodontic patients in proper care of the appliances</li> </ul>	
<b>Content:</b>	<ul style="list-style-type: none"> <li>- <u>Development of occlusion</u> <ul style="list-style-type: none"> <li>- normal and abnormal growth of the jaws</li> <li>- normal and abnormal eruption of teeth</li> </ul> </li> <li>- <u>Malocclusion</u></li> <li>- terminology, diagnosis, registration using the forms of the Danish Board of Health</li> <li>- manufacture and use of study models</li> <li>- production of radiographs</li> <li>- clinical photography</li> <li>- ethiology and epidemiology</li> <li>- <u>Materials</u></li> <li>- instruments</li> <li>- metallurgy</li> <li>- prophylaxis</li> <li>- <u>Organization of orthodontic treatment in Denmark</u></li> <li>- the orthodontic team</li> <li>- indications and need for treatment</li> <li>- prioritisation</li> </ul>	
<b>Evaluation:</b>	<p>Course Certificate based on active participation in the educational activities. Written examination at the end of 4<sup>th</sup> semester.</p>	

<b>Periodontology</b>	ECTS information	
	Period	1., 2., 3. and 4. semester
	Credits	6,5 – mean AAR/Cph
	Grades	00-13 / A-F
	Language	Danish
<b>Form:</b>	Lectures, case studies.	
<b>Objectives:</b>	<p>The student must:</p> <ul style="list-style-type: none"> <li>- acquire a detailed knowledge of the supporting tissues of the teeth and of the common periodontal diseases</li> <li>- be able to account for the etiology of periodontal diseases and for methods used to prevent and treat these diseases</li> <li>- be able to make a motivated choice of methods for prevention and treatment of the most commonly found periodontal diseases</li> <li>- know the principles of treatment with implants and be able to account for "gingival" diseases in connection with such implants</li> <li>- be able to communicate information about periodontal diseases and their prevention in individuals or groups</li> <li>- be able to account for the epidemiology of periodontal diseases</li> <li>- be able to critically read new literature on the subject</li> </ul>	
<b>Content:</b>	<ul style="list-style-type: none"> <li>- Anatomy, function and clinical picture of the marginal periodontium</li> <li>- Etiology</li> <li>- Gingivitis and periodontitis</li> <li>- Other periodontal diseases</li> <li>- Prevention and Treatment</li> <li>- Periodontal surgical methods</li> <li>- Dental implants</li> <li>- Epidemiology and relevant literature</li> </ul>	
<b>Evaluation:</b>	Written examination at the end of 4 <sup>th</sup> semester.	

<b>Pedodontic</b>	ECTS information	
	Period	2., and 3. semester
	Credits	4,0 – mean AAR/Cph
	Grades	00-13 / A-F
	Language	Danish
<b>Form:</b>	Lectures and practical/clinical exercises.	
<b>Objectives:</b>	<p><i>Treatment of patients and introduction to treatment</i>  The student must be able to:</p> <ul style="list-style-type: none"> <li>- identify the psychological problems related to treatment of children</li> <li>- register verbal as well as non-verbal signals from the child</li> <li>- understand and respect the reactions of the child and treat it in consideration of such signals</li> <li>- recognize his/her own reactions and defence mechanisms in the treatment situation</li> </ul> <p><i>Examination and diagnosis</i>  The student must be able to:</p> <ul style="list-style-type: none"> <li>- perform clinical examination in children regarding caries, plaque, gingivitis and malocclusions</li> <li>- diagnose commonly found mucosal lesions, disturbances in eruption and anomalies in teeth</li> <li>- use the examination form of the Danish Board of Health</li> <li>- perform x-ray examination of children</li> </ul> <p><i>Prophylaxis</i>  The student must be able to:</p> <ul style="list-style-type: none"> <li>- discuss and evaluate different methods for prevention of dental and periodontal diseases in children</li> <li>- make use of these methods in clinical work</li> <li>- apply individual preventive measures for children in risk groups</li> <li>- discuss the use of modern methods of prevention in public oral health care</li> <li>- describe different remedies for attainment of good oral hygiene in children and discuss their advantages and practical use</li> <li>- demonstrate appropriate tooth brushing methods</li> <li>- evaluate the information possibilities with respect to children</li> <li>- extend oral health information to individual children and their relatives with regard to the actual problems and needs</li> </ul> <p><i>Clinical skills</i>  The student must be able to:</p> <ul style="list-style-type: none"> <li>- remove calculus, polish fillings and do fissure sealings</li> <li>- perform prophylactic treatment of initial caries and enamel hypoplasia</li> <li>- perform prophylactic treatment to prevent malocclusions and to do interceptive orthodontics</li> </ul> <p><i>Health education</i>  The student must be able to:</p> <ul style="list-style-type: none"> <li>- account for the function of the dental hygienist in a municipal oral health service</li> <li>- cooperate with the public health nurse in relation to pregnant women and mothers of newborn babies</li> <li>- account for the consequences of prolonged use of pacifier</li> <li>- guide the mothers in selection of pacifiers and account for the principles of orthodontic prophylaxis with regard to correction of non-suitable sucking habits</li> <li>- discuss the psychological aspects of sucking habits</li> <li>- account for the eruption of temporary teeth and discuss its problems</li> <li>- account for the importance of temporary dentition</li> <li>- account for the consequences of an early loss of temporary teeth</li> <li>- account for the principles of treatment of minor orthodontic problems</li> </ul>	

**Content:**

- give information to parents and institutional staff about care of trauma- tized teeth
- account for the consequences of dental trauma, the possible treatment and economic compensation
- Familiarization of children to dental visits
- Information to parents re. oral hygiene, diet and sucking habits
- Health behaviour
- Temporary teeth
- The use of fluoride and fissure sealings in children's dentistry
- Orientation about pregnant women and mothers. Cooperation with public health nurses and the municipal oral health care services
- The recording system of the municipal oral health care service
- The adjustment of children to – and their reaction on – dental treatment
- Clinical prophylaxis
- Minor orthodontic problems:
  - early loss of temporary teeth
  - forced occlusion
  - eruption disturbances
- Traumatology
- The function of the dental hygienist

**Evaluation:** Written examination at the end of 3<sup>rd</sup> semester.



<b>Radiology</b>	ECTS information	
	Period	2., 3. and 4. semester
	Credits	5,0 – mean AAR/Cph
	Grades	00-13 / A-F CC
	Language	Danish
<b>Form:</b>	Lectures, seminars and practical exercises.	
<b>Objectives:</b>	<p>The student must:</p> <ul style="list-style-type: none"> <li>- know the definition of x-rays</li> <li>- be able to describe the generation of x-rays and their properties</li> <li>- know the regulations for using x-ray equipment (up to 70 kV)</li> <li>- know the rules for limitation of x-ray dosage and be able to practice x-ray protection to the highest level of radiological hygiene</li> <li>- be able to make an independent judgement of the indication for taking intraoral x-rays</li> <li>- be able to choose in a given situation the most appropriate technique of exposure</li> <li>- be able to carry out the legal quality control and administration of the exposure and development of x-ray pictures</li> <li>- be able to make the following kind of exposures: bite-wings, parallel technique, angle bisection, eccentric and occlusal technique</li> <li>- be able to develop x-ray films at the highest standard</li> <li>- be able to diagnose caries and periodontal diseases, marginal as well as periapical, and to identify other pathological conditions</li> </ul>	
<b>Content:</b>	<ul style="list-style-type: none"> <li>- Definition and generation of x-rays</li> <li>- Physical and biological properties of x-rays</li> <li>- Regulations for x-ray equipment</li> <li>- X-ray protection for patients and staff</li> <li>- Storage and durability of x-ray films</li> <li>- Principles for film exposures</li> <li>- Standards for optimal film quality</li> <li>- Exposure of x-rays – manually or in half- or fully automatic developing machines and manipulation of digital pictures</li> <li>- Handling of photographic chemicals</li> <li>- Quality control and administration of exposure and development of x-ray films</li> <li>- Mounting, marking, recording and storage of x-ray pictures</li> <li>- Clinical hygiene in connection with exposures of intraoral x-ray films</li> <li>- Intraoral techniques: bite-wings, parallel, angle bisection, eccentric and occlusal</li> <li>- Quality evaluation of intraoral exposures</li> <li>- Indications for taking intraoral x-ray pictures</li> <li>- Selection of optimal exposure technique</li> <li>- Normal anatomical structures found in x-ray pictures</li> <li>- Diagnosis of caries, marginal and periapical periodontal lesions plus identification of other pathological changes found in x-rays</li> </ul>	
<b>Evaluation:</b>	Course certificate issued at the end of 1 <sup>st</sup> and 2 <sup>nd</sup> semester based on the practical performance of the student. Written examination at the end of 3 <sup>rd</sup> semester.	

<i>Oral Surgery</i>		ECTS information	
		Period	4. semester
		Grades	CC
		Language	Danish
<b>Form:</b>	Lectures.		
<b>Objectives:</b>	<p>The student must:</p> <ul style="list-style-type: none"> <li>- know in general the most common oral surgical diseases and their treatment</li> <li>- know the normal course following ordinary treatments in oral surgery</li> <li>- be able to carry out simple supporting treatments following oral surgery, especially instruct and assist in the maintenance of normal oral hygiene</li> </ul>		
<b>Content:</b>	<ul style="list-style-type: none"> <li>- Extractions, methods and instruments</li> <li>- Normal healing of extraction wounds</li> <li>- Complications following extractions</li> <li>- Acute and chronic infection. Spread of infection</li> <li>- Surgical treatment of periapical diseases</li> <li>- Impacted teeth</li> <li>- Cysts of the oral tissues and their treatment</li> <li>- Benign and malignant tumors</li> <li>- Prosthetic lesions and their surgical treatment</li> <li>- Jaw fractures and dental trauma</li> <li>- Orthodontic surgery</li> <li>- Implants and transplantation of teeth</li> </ul>		
<b>Evaluation:</b>	Course certificate issued at the end of 4 <sup>th</sup> semester.		

<b>Clinic</b>	ECTS information	
	Period	4. semester
	Credits	0,5 – mean AAR/Cph
	Grades	CC
	Language	Danish
<b><i>Clinical Theory and Preparation for Patient Treatment</i></b>		
<b>Form:</b>	Lectures, seminars, practical exercises.	
<b>Objectives:</b>	<p>The student must be able to:</p> <ul style="list-style-type: none"> <li>- record and evaluate a general and dental patient history</li> <li>- carry out and record patient examination</li> <li>- diagnose caries and periodontal diseases plus identify deviations from the normal picture with regard to lesions of the oral mucosa, dentition and occlusion</li> <li>- plan and carry out treatment incl. relevant referrals</li> <li>- evaluate indication for – and use of local anaesthesia in the treatment of patients</li> <li>- plan and carry out treatment of patients in cooperation with dental students</li> <li>- use pedagogic – and communication principles in the treatment of patients</li> <li>- obtain and use the common knowledge of caries, periodontal diseases, mucosal lesions, dysfunctional abnormalities, local anaesthesia and x-ray diagnoses</li> <li>- evaluate his/her own treatment methods and- results using objective criteria</li> <li>- administer records and bookkeeping</li> </ul>	
<b>Content:</b>	<ul style="list-style-type: none"> <li>- <i>Preparatory course</i>, theoretical and practical preparation for treatment of patients</li> <li>- <i>Laboratory courses</i>, scaling, polishing, study models, fissure sealing, temporary restorations and minor prosthetic corrections</li> <li>- <i>Clinic administration</i>, sterilization &amp; hygiene, recording and referral procedures, bookkeeping, environment and safety, materials and instruments, ergonomics</li> <li>- <i>Self study</i>, case studies, x-ray interpretation, lesions of the oral mucosa, diet analysis</li> </ul>	
<b>Evaluation:</b>	<p>Individual course certificates issued at the end of each semester.  Oral examination at the end of 5<sup>th</sup> semester.</p>	

***Clinical Hygiene, Sterilization & Clinical Instruments/Materials***

**Form:** Demonstrations, exercises, self study.

**Objectives:** The student must:

- through practical and theoretical training acquire skills enabling her/him to plan and implement optimal clinical hygiene procedures
- take responsibility for keeping the clinical hygiene at a level, where infection risks are minimized
- be able to recognize the different instruments used in ordinary dental treatments

**Content:**

- Infection risks, methods and materials for disinfection
- Rational work procedures, pre-disinfection, cleaning of instruments
- Sterilization using steam or dry heat. Durability and storage of sterilized goods
- Biological control of autoclave/dry heat sterilizer
- Maintenance, cleaning and sterilization of hand pieces
- Cleaning and disinfections of the dental unit, maintenance of suction
- Surgical instruments
- Instruments for restorative dental treatment

**Evaluation:** Course certificate included in the overall clinical course certificate.

***First Aid***

**Form:** Lectures, demonstrations, practical exercises.

**Objectives:** The student must:

- acquire theoretical and practical knowledge of First Aid enabling him/her to assist in common emergencies or sudden illnesses occurring in the clinic
- be able to keep victims alive until medical assistance arrives

**Content:**

- Importance of respiration and heart function
- Reasons for, and symptoms of, unconsciousness, heart stop, shock and injuries with main emphasis on the situations that may occur in the clinic
- Practical exercises in the treatment of unconscious or injured persons

**Evaluation:** Course certificate at the end of 2<sup>nd</sup> and 4<sup>th</sup> semester.

***Ergonomics***

**Form:** Lectures, practical exercises.

**Objectives:** The student must be able to:

- assume correct positions during treatment of patients
- position operator stool and patient chair correctly
- evaluate his/her own work positions and movements and compensate for minor injuries and exaggerated loads through exercises

**Content:**

- Statistics of injuries to the locomotive system especially within the social – and health sector
- General ergonomics
- Basic physical test
- Basic test of the muscles of the back
- Relief exercises
- Positioning of the operator stool and patient chair
- Correct standing and sitting positions
- Correct instrument grip
- Basic anatomy with reference to the most common exaggerated work loads and their prevention
- Basic neurology incl. the senses
- Physical exercises
- Work positions and movements during patient treatment
- Pain theories
- Technique of lifting

**Evaluation:** Course certificate at the end of 4<sup>th</sup> semester.

***Hospital duty, Patient Attendance***

**Form:** Practical exercises on different institutions, evaluation of result, report writing.

**Objectives:** The student must be able to:

- communicate with, and guide patients, who due to physical illness are hospitalised
- assist hospitalised patients with their oral health problems
- render service and guide groups with special needs, e.g. pregnant women
- communicate and cooperate with other health personnel

**Content:**

- Patient attendance at different hospitals as voluntary, auxiliary staff, supervised by the normal hospital staff and by the teacher responsible for the activity.
- Report with daily observations and a final evaluation

**Evaluation:** Course certificate at the end of 5<sup>th</sup> semester.

***Practice Administration and Accounts***

**Form:** Lectures, demonstrations, computer exercises.

**Objectives:** The student must:

- acquire knowledge of bookkeeping in a dental and dental hygienist office
- independently be able to register patients, prepare bills and reminders, prepare the daily economic status
- know the law on dental hygienists enabling them to run an independent clinic
- know which institutions and offices to contact if preparing to set up an independent clinic
- know the rules and regulations for marketing a dental hygienist clinic
- be acquainted with the different types of team work, dentists, doctors, hospitals etc.
- acquire ideas on the interior decoration of a clinic regarding colours, environment etc.

**Content:**

- Introduction to computer programmes for dental offices
- Registration of patients
- Preparation of dental bills
- Appointment book, recalls
- Reminders, salary accounting, daily economic status
- Inventory control
- Full day seminar on the subject, the independent dental hygienist

**Evaluation:** Course certificate as part of the clinical certificate

***Patient Treatment, 1<sup>st</sup> semester***

**Form:** Clinical exercises.

**Objectives:** The student must be able to:

- interpret the written information in the record of a patient
- carry out examination of recall patients and register the findings
- polish fillings
- evaluate and adjust oral hygiene in recall patients
- understand and use the principles for clinical hygiene and sterilization

**Content:**

- preparation for treatment of patients
- basic skills in examination of patients
- registration of caries and periodontal conditions
- courses in scaling, polishing of fillings, oral hygiene, interpretation of x-rays and impression and casting of study models

**Evaluation:** Course certificate at the end of the semester.

***Patient Treatment, 2<sup>nd</sup> semester*****Form:** Clinical exercises.**Objectives:** The student must be able to:

- fill in the patient record according to current rules and regulations
- carry out basic periodontal treatments
- polish fillings made of "plast" and amalgam
- make ordinary diagnoses and prepare a simple treatment plan for recall patients
- identify, use and maintain the instruments used
- produce and describe x-ray pictures
- possess the knowledge necessary to select and perform individual patient treatments
- analyse a patient communication sequence

**Content:**

- Clinical examination extended with x-rays, photos, study models, occlusion and mucosal lesions
- Courses in deep scaling, polishing of combined fillings, First Aid etc.

**Evaluation:** Course certificate at the end of the semester***Patient Treatment, 3<sup>rd</sup> semester*****Form:** Clinical exercises.**Objectives:** The student must be able to:

- cooperate actively in group work at the comprehensive oral health care clinic at the Dental School
- carry out extended periodontal treatments
- treat children and carry out introductory sessions for parents and children
- give local infiltration anaesthesia based on proper indications
- perform diet interviews and give feed back to patients
- carry out fissure sealings based on proper indications
- correct minor denture problems

**Content:**

- Team work at the comprehensive oral health care clinic and treatment of pedodontic patients
- Adult patients with complicated needs for periodontal treatment
- Pain control using local anaesthesia
- Dietary counselling based on diet interviews
- Courses in the application of fissure sealants
- Courses in treatment planning

**Evaluation:** Course certificate at the end of the semester.

***Patient Treatment, 4<sup>th</sup> semester*****Form:** Clinical exercises.

**Objectives:** The student must be able to:

- achieve independence in the handling of patient records and treatment
- integrate properly in the private or public oral health care system during extramural practice periods
- treat children and carry out introductory sessions for parents and children
- plan and conduct a comprehensive dental hygiene treatment
- work efficiently and reach the expected results

**Content:**

- Treatment of adults and children, partly in teamwork with dental students at the comprehensive oral health care clinic
- Course in minor prosthetic repair
- Self study work with lesions of the oral mucosa, interpretation of x-rays and treatment planning
- Extramural practice in private or public clinics and rotating hospital duty

**Evaluation:** Course certificate at the end of the semester.Aar: Case presentation

Individual oral examination based on a theoretical case analysis with diagnoses, treatment plan and prognosis.

CPH: Case presentation

Individual oral examination based on an actual patient including history taking, clinical and radiographic examination, diagnoses, treatment plan and prognosis.

***Patient Treatment, 5<sup>th</sup> semester*****Form:** Clinical exercises.

**Objectives:** The student must be able to:

- independently administer recall patients with regard to recall intervals, examination, diagnoses and treatment
- evaluate personal treatment results in relation to objective criteria
- make a complete patient record
- finish treatment of a patient
- use proper criteria for referral of patients and formulate the referrals
- train dental hygiene students from 1<sup>st</sup> semester and delegate treatment of patients
- integrate himself/herself in a private or public dental team during the extramural practice period

**Evaluation:** Course certificate at the end of semester.Aar: Case presentation

Individual oral examination based on a theoretical case analysis with diagnoses, treatment plan and prognosis.

CPH: Case presentation

Individual oral examination based on an actual patient including history taking, clinical and radiographic examination, diagnoses, treatment plan and prognosis.



	Danish Grades	Definition	ECTS Grades	Definition
Passed	13	Exceptionally independent and excellent performance	A+	Excellent: outstanding performance with only minor errors
	11	Independent and excellent performance	A	
	10	Excellent but not particularly independent performance	A B+	
	9	Good performance, a little above average	B	Very good: above the average standard but with some errors
	8	Average performance	C	Good: generally sound work with a number of notable errors
	7	Mediocre performance, slightly below average	D	Satisfactory: fair but with significant shortcomings
	6	Just acceptable performance	E	Sufficient: performance meets the minimum criteria
Failed	5	Hesitant and not satisfactory performance	FX	Fail: some more work required before the credit can be awarded
	03	Very hesitant, very insufficient and unsatisfactory performance	F	Fail: considerable further work is required
	00	Completely unacceptable performance		

DK Grades	ECTS Grades
13	A
11	
10	
9	C
8	
7	
6	E
5	F
03	
00	